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Creative Imagination

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Creative Imagination

Studies in the Psychology of Literature

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TO MY STUDENTS SHIRT YEAR BM THOUGH BYAN ONW

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To obtain elimpses of the landscapes of other minds is one of $\frac{2}{2}$ the rewards of a leisurely transit through the realms of a psychology. The experience is both entertaining and disturbing; entertaining, because of the infinite variety of the scenery, from polar ice-fields to tropical jungles; disturbing, because it is difficult holding to favourite dogmas when one sees cacti, magnetis, trees, wild plum all flowering in beauty.

The variational factor in psychical experience has always fuscinated me, so too has that realm back of the North Wind. the poetic magination. Both literary appreciation and creation suggest fascinating problems that might be solved in the laboratory. I am aware that to many the suggestion of such work saveners of a desire to apprease the minhow. If does not seem so to me even in face of a most deep-seated. passion for poetry. I am aware, too, that to many writers on serthetics what has been done in the laboratory up to the present seems largely trivial or futile so far as their interests are concerned. Perhaps | Investigators are often, as Emerson would put it, wrong headed in the direction in which they are rightest. I may, at least, ward off certain criticisms by disclaiming at once any intention of contributing to sythetic theory or to one of critical evaluation. If the discussions in this book have such implications it is for others to find them. I must, however, register my belief that scientific analysis has much to bestow in the way of clarifying our understanding of the human activities that lead to art-creation and that it 'is perfectly well-justified in dwelling on minutise and seeking to penetrate their significance. This way has all knowledge, though not necessarily all windom, onns.

I only regret that I have so little to offer in the way of laboratory investigation, that so small a portion of the field has been surveyed and that but castally; at most, I have guithered up chips from the workshop. Even so, I hope that this beak hints at investigations that might be undertaken with profit. Moreover, even an inadequate survey of the range and nature of the variational factor in the response of individuals to art, should, it would seem, be of value to critic, backur, and thilescoher.

I have, in fact, found the discussions of literary critics so often coloured by what to the psychologist was manifestly a preponension established by the critic's own psychical make-up, that I have come to believe that, as a part of his training, it should be required of each one that he psychologize himself. I am not recommending a Freudism statement of one's complexes—I am far from believing that all criticism is might be defence reaction—but a cataloguing of one's mental dispositions somewhat in the fashion to be illustrated hereafter, as a productionary measure on case one is inclined to set up his own not of experience as the only standard one.

As a prelimmary survey and one which contains implicit within it a programme which is to be amptified in the succeeding chapters, let us first review briefly some notable differences in the responses of individuals to postry.

BOOK I

CHAPTER I

THE VARIATIONAL FACTOR IN THE ENJOYMENT OF POETRY

It is an old quartel whether poetic appreciation is more largely dependent upon the power to form images or sensitiveness to verbal and phrasal effects. Is the function of poetry mainly pictorial, that is, representative; or is it sensuous, that is, musical?

In all art a sensous medium of expression and a representative meaning or content are to be distinguished. If an art is mainly sensorial in value, the sensous expression is the main aspect. There is delight in pure colour and line, bare auditory quality, sheer rhythm. If the representative aspect is stressed, the imaginative response is of higher importance. There is sensitiveness to the release of illustrative imagery, the portrayal of emotion, the unitation of nature and of human life, the intimation of spartical truths.

Poetry, on the sensous side, employs rhythm and the auditory-motor content of external or of inner speech. It is an auditory-motor art allied to music. Its sensous content may be employed mainly as a carrier of meaning, visual or other imagery, or may have value in itself and for itself alone. There are, for example, forms of lyric poetry in which the anditory content and the rhythm are its chief reason for being. There are poets who aim at creating sheer word-music, who use words not indirectly as symbols of meaning but tunnediately as musical notes. A high degree of interest in the latter content is shown by deleate susceptibility to assumance and alliteration, to rime and rhythm, with enjoyment of pitch, tone-length, tone-oclear. All manner of individual differences are mainlest in the response to the verbal side of literature. Our programme must include an exposition of these

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differences as well as an account of the immensely fascinating differences in imaginal responses.

The actuant to which the reading of novel, essay or poem is accompanied by visualisation or other forms of imagery waras with the imaginal predisposition of the reades, the style of the production, and the purpose of the reading. No one would assume to-day as certain critics have done in the past that in meaningful reading every word must needs be translated into an image. We know, for one thing, that the sentence or peragraph, not the word, is the unto of thinking: we know, for another, that the word may carry its own meaning perfectly well. But in the hartney of literary sethetics just as in contemporary criticism there have been those who have conceived poetry, at least, to be mainly a pictorial art and have, accordingly, had much to say of word-painting. Poetry is thought to arouse in the imagination a completely seachasisches Gebide, a sensory incitive.

One cannot investigate imaginal reactions to any extent without discovering a difference that Ribot * describes as the plastic imagination versus the different or emotural imagination. The plastic imagination constructs always in subservence to the dictates of objective reality, the demands of sardity; its ideals involve clarity of conception, lumpid and harmonious execution, ordered beauty. The emotional imagination transforms reality so that it may become carrier of all the strange exitases and despairs of the inner life; it would make things the symbols of vague infinities; it dissolves what it touches into a formless but creative choos. For the plastic poet a rambow is a rambow, a band of seven trasducent colours to be deheately sensed and copied; for the diffinent poet the rainbow is a mystary, a bridge from one Unknown World to another.

Very probably these typical differences in imagination are related to variation in psychical temperament as well as to differences in imaginal type. The vasual and tachla-minded are apt to be plastic in imagination, intoxicated with the aspects of abarply individualized things, the auditory are more enamoured of the rhythm of the emotions, of mystic languages, finid universals. The visual and tactle type is that of objectivity; the auditory and organic of subjectivity. The one is geneitive to spatial measures, linear representation; the other, to the drift and fluctuations of time. Architect, sculptor, peinter usually possess the plastic touch; musician and mystic, the difficient. The poet may give himself either to the fathful portrayal of natural beauty or of substantial truth, or he may yield to the pressure of the world beyond the senses and grope in the twight of councingness.

In general, emperimental results above that readers with striking dispositional tendencies so far as type of imagery is concerned are apt to prefer literature that makes an appeal to their dominant mode of unsigning. A securing exception comes in the case of those who are highly succeptible to original and cutaneous effects. Too intense an arousal of such sensations or images may be impleasant. Moreover, extremely vivid imagery may lead to an imagestant response if the visualization results in a fantastic or indicalous picture, such as often happens from a tendency to visualize all phrases, however abstract or figurative. Faint visual imagery insulting from an abortive attempt to visualize a situation also results in impleasantness. A reader with vivid and persistent unsignity may prefer a detailed and unified description to one that suggests rapidly shifting images.

"Here," one writes, "we have visual images called up one after another, crowding each other out in their haste to be seen, like the leaves of a picture-book turned too last." It was thus same reader who wrote of a poem that contained forty-three auditory suggestions in a page and a half, "One almost feels like pressing a deafening finger to the sar to deaden the sounds"

In general, rich imaginal content, a complex of various modes, contributes to enjoyment. Thus the following lines taken from Kests' "To Antumn" suggest manifold and varied images and are exceedingly agreeable to most readers—

Who hath not seen thee of amid thy stime? Sometimes where the shreed may find Thos sitting exceless on a grantry floor. Thy hair soft-hitfed by the winnewing wind, Or on a half-reap d intrive sound salecp. Drosse'd with the funit of poppies, while thy hook Source the next swatch and all the transit flowers:

And sometimes like a gleaner thou doet keep Strady thy laden head across a brook; Or by a coor-press, with patient look, Thou watchest the last occurry hours by hours."

Experimental results show very syident individual variation in the kind and intensity of the emotion preferred by different readers as well as differences in preferred sensory modes. Very definite reactions have been recorded as to the degree of interance or liking for the depressive emotions (melancholy, sorrow, grief, futility) and the exciting emotions (defiance, revence, hatred). In every case the situation is complicated by the extent to which the amotion portyayed is personally coloured. Emotional preferences are, moreover, determined somewhat by temporary moods, but, again, with some interesting divergences relatively to the effect of mood. A mood of depression may operate variously in increasing the liking for melancholy poetry or in causing a definite lowering of all values. Staring emotions may be enjoyed when one is in a "fit " condition but prove too exerting, too stimulating when one 15 fatigued or relaxed !

One of the most interesting of individual differences is the varying delight in novelty or familiarity of art stroubs. On the one hand, we find a group who are thrilled by the new content, the new form; on the other, a group who view a new development with suspicion, uncasiness, who turn with richer and righer satisfaction to old forms and themes. In part, we mark this difference by calling the first group the romanticists, the others, the classicists. We expect the first to be at times led astray by its catholicity of enthumasm . the second, by its conservation. Of course this difference in interest is a vary deep-sented one. Even in so simple a situation as that of a psychological experiment in which readers react a number of times to the same passages of poetry this difference in attitude is syndant. It is easy to pick out the individuals who return to the experiment with greater and greater pleasure, finding the poetry as they grow familiar with it richer and richer in value; and those who are borrd by the task, anxious to turn to other pastures for

 $^{^3}$ See the author's " Emotional Poetry and the Preisrance Judgment," Psychol. Rec., 22 (1925), pp. 259-276.

enjoyment. Not merely in art-enjoyment but also in daily reactions we find the distinction evident. It is your classicist by temperament who delights in retrospection, in reminiscence, who treasures old associations, old frambelips, who twines the tendrils of sentiment around old ruins, old books, old legends. The romanticist, on the contrary, is typice for adventure into the unknown. In search of it he turns restlessly from old melodide to new cadences, from familiar meadows to exotic deserts.

In art, the remanticist tries out all manner of faminatic and, perchance, unprofitable reactions. That he mannet define his goal is part of his pleasure. He welcomes the unique. The classicist perfects form, polishes technique, insists upon the univarsat element in composition, the common factors in human life and character.

An individual difference of much agnificance for aesthetic theory is the degree to which subjects of experimental investigations report, or fail to report, a difference in the basis of the affective judgment, that of pleasantiness—umpleasantiness and expressed, curious variations senset as to the degree that the sathetic, as subhetic, is found to be pleasantines. Here the remark is perfinent that there is evidence that merely pleasant poetry wanes more on re-reading than does ashtetically-toned poetry. The latter may some give meressed pleasance with greater familiarity with it. It appears, too, that sensorial content is perturbatly infountial in determining a podgment of pleasantines—impleasantines; mood-toning, in determining an esthetic programs. Even the sensorial continuit of the esthetic programs.

" And swordlike was the sound of the non wind "

Readen, however, show to a very different degree telerance for the sensously unpleasant and, to repeat, for themse that relate to the sad or melancholy. In part, this is due to variation in their thresholds for the unpleasant, in part to

¹ A tobalisal upper on an attempt to approach the problem-was of remarked his importance in a subset. Both of the tobalisation of considerable importance in a subset. Both of the tobal point of view will be found in the author. ¹ The Trangant Reaction Postery The Affactive and the allighter's proposition. ¹ Unit of Westery The Affactive and the allighter's proposition. ¹ Unit of Westery The Affactive and the allighter's proposition. ¹ Unit of Wester Wester and the Control of Psychol, Johnson No. 2 (1921), pp. 1-36. No effort will be made to dividual that topic particle in the present volume.

the degree of their detachment from a practical attitude, in part to their capacity to integrate diverse material. The Ugly in art—thir mischapen, the weary, the old—may for some be more expressive than the perfectly symmetrical, the harmonious; for Incompleteness hints at infinitude of meaning.

The group of feelings that are characterized by a definite temporal course of strain-relaxation such as would be involved in following the plot of a drama or noval merit most careful consideration. Here, only one individual difference will be cited. There are individuals who find in the musical interval that remains without resolution or in the unfulfilled rhythm a suggestion of limitless possibilities that opens out wide horizons. In contrast to those that seek beauty in Apolloman calm are those who find it to Diouvana freazy.

We must, however, reckon with the logican even when occupied with poetry, and there are readers whose main delight in hierature centres around its logical perfectious, its harmony and unity. Apt phrasing, technical skill and constainery, penetration in this discovery of subtle relationships, these constitute what we may call the vartues of intellectual fitness—virtues absolutely essential to the integrity of applice of literature in the estimation of those lean thinkers who are trigger-set for detection of irrationships, set on edge by logical monarculate.

Even hers, however, a relative and individual factor must be recognised. Experiences may be condemned as "incongrations" and this judgment mark merely the limitations of the individual reader. Thus synarshetic phrasing and many metaphorical expressions have, often, an apinese quite beyond the appreciation of those who summarily discuss them on logical grounds.

That the self enters into all art-expensence in a very subtle if semawhat evasive way is comceded by most writers on settleties. A number of writers have been inclined to find in empathy, particularly in its form of lener mintation, the core of the settletic response. This can be done only by a generous interpretation of the ineasing of the term. Inner instation in the form of motor miningy course extensively only for a particular vice of reading but compating it understood in a very

broad way as inclusive of all forms of payoble participation is certainly a vital factor in enjoyment.

In literature, indivudual variations in the relation of self to the story or drams are exceedingly diverse. They range from cursons self-varializations or other forms of explicit selfprojection to emotional identifications or detached and almost selfices objectifications. If us, relatively, a simple most identifying the self-responses in reading interature. We have here, therefore, a profitable method of studying differences in the forms which literary emputy may take and a chance to compare such experiences with empathy in the visual arts where this phenomenon was first noted.

Sterninger in his valuable experimental study of the moments of eathertic enjoyment concludes that emposition (Enrishiung) is or relatively less significance than substitution of manning (Unterschabung) as it occurs in the metaphorical consciousness. Those among his subjects who were mable to address substitution even under instruction were, Sterninger suserts, acticeably matter-of-fact and prosace in temperament. By means of his conception of substitution, Sterninger is able to explain the effect of literary synastisess, and the quality of dreamlikeness that is so pronounced a fasture in the enforment of posity by certain subjects.

Difficult, indeed, do readers find it to determine and phrase the precipe feature in the estimate arturnous that gives certain of them a wonderful sense of indired his, what they describe as the cosmic smoother Dreamhiceness, atmosphere, rechnises and fluidity of suggestion, vagabondage of larcy, they schanast their vocabulary striving to find the phrase of precision that can convey the mystery and stri of suggestion latent in Poet hims:

"Ah, by no wind those clouds are driven.
That restle through the nequet heaven—
Ah, by no wind are stirred three trees.
That patprinto like the chall seas.
Around the musty Hobrides | "

There are those for whom poetic enjoyment and the mystic experience are one.

³ "Des Gründe des Gefallens u Musgefallens am poetuschen Balder." dreh f sus Perchet (1914), 20, up 16-01.



BOOK II THE IMAGINAL WORLD

CHAPTER II

THE INNER WORLD

We are very objective-mended individuals, living in a substantial world of very solid reality, and yet every day for a few minutes or many hours at a time we are rapt away into a different seeming universe, one of mental impressions, of ideas, of langes that symbolize in various fashlors the things and qualities of the external world in which we live.¹

At certain moments our desires or fears give the cue for the appearance of certain actors on the stage of the mind. We may carry on elaborate mental rehearsals of the wedding that is to take place next week or of the journey we hope to realize next variation. We may build in Ourtown, on the corner of X street, a very modern strain-heated, electriclighted Cartle in Spain. At other times we are imaging seems of the past, suddenly living again and other surroundings, visualizing perhaps the fishing-pool with its dappied shadows, or bearing in memory a mother's voice croming a hillaby.

In our hours of reverie we watch with amissed or sombre obtachment the seemingly meonsequential images and thoughts that flit through our heads. Some of us have a drop-cartain to that theatre of the mind, a bit of woodland somery or a sustage painted by fancy or memory that is seen as often as the bright lights of the external world are extinguished, whenever we let go for a moment our practical preoccupations, when we surrender to the noonday nests or the nightly drowsmass. In moments of relaxation, others of us cutertian ourselves with a continued story, a prolonged serial wherein

¹ For a very fine discussion of magery in relation to postry, see Chapter XVI, Principles of Library Cratesian, by I. A. Richterta, in this script.

as here or heroine we pass through sundry sentimental or practical adventures. We sweep into the ball-room, the cynowre of all eyes; or we thunder from the senate-hall a word of elegeneous heard round the world.

About a half century ago the scientist began to tease himself and the rest of us with fascinating questions as to how we think of things. The everyday man does not trouble himself much concerning how he thinks, being abundantly satisfied if he manages to think at all. And where two or three persons discover to their delight that they agree in religion or politics it does not occur to them to compare their mental stuff as well as their conclusions in order to determine whether or not they have reached the same house by following one and the same road. But the psychologist by asking question after question has changed all that. He has revealed to us many fantastic habits of the mind with reference to the form assumed by its memories or imaginations; he has delighted us by giving names to our umer experiences; he has amused us by his discovery of curious differences between one mind and another He has, it is true, had some difficulty an convencing a certain type of individual that a neighbour's report of the strange furnishmes of his mind may be quite as true as Au report of the vagaries of his eyn | But conviction grows by increasing revolution and the polite smile of incredulity that was wont to greet a particularly fantastic report is giving place to a desire to question widely, to understand thoroughly, to compare extensively. We no longer conduct wordy wars as to the proper way of thinking We concede there's more than one way of realiting the same thought, that it may shape itself in words, or appear concretely in pictured form, or even make itself known as a movement actually made or only thought of We do not debate now whether a man can think without words. Of course he can so think. Our questions are much more puzzling. Can a man talk to himself (mentally I mean) and fail to hear himself talking? Or can he hear himself talking mentally without at the same time actually vocalizing?

To-day, for the most part, there is a generous disposition to receive at its face value the reports of others as to what goes on in the workshop of their minds. We are grown aware of the fact that there is nothing so whimsical, so unexpected as the mental stuff we accumulate day by day, a most precious sort of rubbins which, howevers, we turn over pretty carelessly with little thought as to its value. Often we are unaware of our own originality; we take for granted that the idea that serves us is a patented device and only when first initiated into the mysteries of mental dissection do we discover how strangely divergent are these inner worlds of ours, these microcours of the newthologist

To repeat, many ways there are of meaning the same thing. The for example, the throught of an antunn day. We may see, in imagination, the tarmshed leaves whichen in gusts over the withcred grass by the wayside; or hear their crackling, infinitely dreary; or crunch a leaf in our hands or powder it beneath our reluctant feet; or we may be oppressed by the smell of dry dead things. And yet neither vision nor sound nor odour may embody the thought—th may be realized only as a sense of oppression, of a summer gone, of wonry lagging feet and hearts.

If we ask for a summary statement of the work that has been done on imagery, up-to-date, we find such a voluminous literature upon the subject that only the specialist can hope to work through it with any degree of thoroughness. We have at hand statistical returns from questionnaires cast appealingly at the feet for brains i) of amateur psychologistic. More than one generation of college student has, at building of his matruster, examined his mental visualization of the breakfast table where he sat that morning. He has scrutinized with his midd sey the texture and pattern of the tablecioth and he had found his mouth watering at retasting a vanished marmalade.

Generations before Francis Galton formulated the first stroid questions relative to imagery, the man with a passion for watching the working of his own mind had discovered his power of picturing the various features of the world outside bim and of hearing in memory the sounds of asture. It is Sakraspare that we owe the fine phrase "in my mind's eye, Horstio," a phrase which had been paraphrased to include the mind's ear also and even, with great accuracy but less regard for the poetry of phrases, "the mind's nest."

If our task were one in systematic psychology we would, at this point, need to consider in some detail the problem of the characteristics of the image, but since our interest is largely one of description we may pass over the topic with the suggestion that the image must not be conceived as a material copy or thing but merely as the content of a thought in which attention is centred on sensory quality of some sort. Such a statement does not take us very far into a scientific analysis of imagery which spynlyes determining what, precisely, are the criteria for distinguishing between amages and objects in the outer world, and what are the naurological conditions of the image. It side-tracks also such questions as the presence in imagery of a readual sense-cusin activity, or the possibility of all imagery being a delicate patterning of consciousness arising from the focusing of a given sense-crean. It has only descriptive value.

In the earlier work on imagery there was little awareness of the versatility of the mind and the amateur introspectionest is still given to confusing image with picture, so that it is necessary to insist upon the existence of unages of sounds, odours, tastes, movements and touches as well as of visions Counter for a moment the maser sar. The sounds of nature may return to us in the hours of outer silence. the sound of rushing water, of the wind sighing in the pines or rustling the aspens, of bird-notes falling earthward. And your friends whom perhans wen cannot see in your mind's eve you may hear instead—the whisper of a silken gown, the clacking of a not-cracker voice, the intensitions of musical laughter. But even those who hear with the mind's ear do not all hear able. There are some who report the power to recall orchestral performances, to hear with the mind's car a half hundred instruments adding each its component to the harmony of the whole: others report striking limitstions of capacity. They find difficulty in describing the vague schemata, the fantastic shadows of andition that constitute mental sounds for them. How, for instance, describe that bediless auditory image that means your friend's voice? It may be a mere ghost of a rhythm: it may be shear tenor or bass voice-quality but otherwise characterless; it may be individualised to the last limit of realism.

Consider, too, olfactory and touch and temperature images. In small of rain, of wet earth, of the sun on the wind, of sage, may give a tang of reality to reverie. For many, the image of the wind is tactual mainly and given a constant localization. It ruffles the hair or caregaes the brow or blows across the left hand. Flowers, too, may be imagined primarily in terms of touch, the felt-batture of the petals, the felt roughness of the stem. Poc's line

'And the miken and uncertain resting of each purple curtain."

may induce a fingering of the druperty before it is heard or seen. But if our inner worlds of odorur, touch, and sound are hard to dearnthe, even more so is our inner world of movement. We shall have occasion later to emphasize the difficulty of describing those vague twitterings of the vocal organs which often constitute unner speech. Even more difficult is it to catch on the wing the flickering gestures, the amazing sleights-of-hand of our energetic selves. A shadowy nod, a phantom gesture, an abbravated jump, a rapidly executed side-step, these, too, constitute thought-stuff and furnish the inner world of knugsthesis—to use the term adopted by the psychologist to refer to experiences of movement.

Many psychologists believe that all so-called images of movement are really suppressed or inceptent actual movements. In my case, much overt movement does actually condition the processes of remembering, imagining and reasoning. From our present point of view, indeed, it matters little whether knesshettic sensation or mage carnes our meaning, a statement which holds also with regard to whatever organic material we utilize in thinking. Whether the broathlessness that oppresses us be mental breathlessness merely or actual breathlessness, whether the drowsiness be imaginal or sensational is somewhat a matter of indifference so long as we are interested in a bare describtion of conscious sometimes.

Movement which may be felt imaginally may also be sem, in which case we speak of an optical-kinasthetic image. There are, in fact, individuals who possess kinatoscopic imagery; they are spectators of a continuous cinema. No vision abudes for them. They strive to concentrate on a

particular picture, presto change! they have something else before the mind's eye. For others, it is not a matter of a rapid shift of one image into another, but rather that every image involves movement as part of stelf. This statement hald true for a young woman who complained that not even the houses she visualized would say in place. They promenated down the avenue. Nor did the persons she visualized cultivate a polite repose; one was always seen swaying so violently in a rocking-chair that it rapidly slid of the margin of vision.

For most of us, the inner eye has very curious limitations related in some as yet unknown way to our mental make ny. For some visualists the details finds from the presentation, or the mental eye concentrates on some detail and loses a compensure view of the whole. There are certain individuals who are able to see as vividly as you please any particular bit of a situation but never the whole at once; there are others who have the whole in a flash but cannot focus a particular bit. Some thinkers have never discovered the art of colored mental photography, their mental picture-galleries are hung in etchings, all in blank and white; others report unthing but colour in their visualizations, form being a blarred subordinate to richits lead finch is a the high.

Many curious variations in the space characteristics of mental vision are also reported, a topic which demands amphication in a chapter of its own

There are those who see with the mind's eye access that rival actual sights in vividness, richness, and panoramic effects. Of such possibility Wordsworth was thinking when he sang of the inner eye that is the "bliss of solvinde." Jack London's "Martin Eden" is full of apparently autobiographic hits that evidence a care geft of visualization. As the hero calls back to memory scenes of the past he is overwhelmed anew by the scent and colour and the rush of them. "It was to him, with his splendid power of vision, his gazing into a limitoscope."

Of Jack London himself Mary Austin reports that he possessed the power of visualization to such a degree that he could obtain information for a story directly from pictures present to his mind's eye. She adds that Tusot, on his return

^{4 &}quot;Automatem in Writing," Undertake Res., 14 (1980)

from the Holy Land where for six years he had made studies for his illustrations of the Bible, stated in an interview that "other while he was studying an historic spot the figure in it would disappear and be replaced with the features of the event supposed to have taken place there."

Of panoramic vision, Mrs Curran, the creator of Patismos Worth of Ouna Board fame, has given us a charming account from her own experience while writing m automatic fashion her stories and plays. The characters move about, set out their parts, and hold convene. The parture takes in everything within the circle of vision at the time. If two people are seen talking on the street, Mrs Curran sees not only them, but the buildings, stores, dogs, people and everything on the street part as in a real scean. Such accounts retimed us of the recent descriptions of Eudster, individuals whose images are of almost hallocinatory viviliness

The so-called Ansikusungsbid or elderic image is not only extremely wivid but possesses also the richness in detail and the objectivity of a perceptual object. In such an image is object of a former perception is actually seen, not marely imagined. Discovery of the eldert image as a common possession of childhood has been failed as one of the great psychological anhievements of recent years. Laboratory investigations, which have multiplied since the first accounts of it, have abundantly confirmed its existence ellibroigh not the far-flung speculations of the Marburg School who would use it as basal to a theory of mental evolution and a doctrine of mental types.

The evident image falls in a series between the after-sensation, on the one hand, and the true memory-image on the other. A programme for investigation ranges from munute scrutiny of the behaviour of after-sensations, both positive and negative, to attempts to create experimentally compositive and negative, to attempts to create experimentally compositive factor of generic images by the fusion of carefully chosen persistent impressions. It is perhaps necessary to state that not all eddetic images are visual and that under other names the eddetic image has been described in earlier reports on psychical experiences. It is necessary, however, to review such descriptions caincally in the light of the new point of view, and also a scrutings hallectinations, buildentations, hymagogic

images and the secondary sensations of ordinary percepts, and of synesthesias. Investigations of such a nature have been imagurated and see certain to resoft in material highly significant for systematic psychology, and for the applied psychology of art, of education, and of medicine.

Although a very large percentage of children between the ages of ten and fifteen years possess eldetic imagery, its retention by the adult appears to be something of an anomaly. often nathologically conditioned. It is, however, not uncommon among poets and artists. Goeths, for example, was eidetic in disposition, and Kroh 2 on the ground of statements found in their diaries, letters and the like concludes that a number of other German writers may also be so classified. Of English poets, Wordsworth and Coleridge are probably to be included among the Kulstiker. Mary Austin states that acute vasualisation is common to all artists, using the term " artist " in its inclusive sense. But a general survey of the types of creative thinkers as well as specific statements from literary workers makes one sorptical of such a generalization. It is, possibly, more nearly true of novelist than of poet, for the latter is at times deminated by verbal rather than visual automatisms.

At this point we may refer briefly to a problem vigorously debated in the past. Does each one of us belong to some type, so to speak, so far as our images are concerned? Do we live chiefly in a world of visions, or in one of sounds, or one of movements? And if your neighbour succeed in guessing the form in which you think, is he able then to draw extensive conclusions as to your mental characteristics? In the earlier investigations the answer to these questions was generally affirmative. The types were named definitely. If a man thought in terms of sight he was called a "visits"; if in terms of hearing, an "audile"; if in terms of movement, a "mobile." The early treatises abound in entertaining albeirations of the various types. That the painter must be predominatingly visual in imagination seemed a foregone conchance, just as it seemed inevitable that composers must be auditory in type and live in a world of inwardly heard melothes. Incidents were recorded of Mosart's marvellens sussical

 $^{^1}$ " Salether unter deutschen Dichtein," Ziesig f. Psychol., 85 (1920), pp. $^115{\rm -}162$

memory; and such inward hearing might, it seemed, survive the lose of actual hearing as written the case of the deaf Beethoven composing his symphonies in a silence that was silence only for the outer ear. Particularly adoquate imagery was, it was thought, related to especially sensitive senseorgans. At this pout psychonalysts have nowadays tundths tables and conjecture that musical talent may be a compensatory device for an ear defective in some way; or arristic gifts the outcome of an described whefor eye.

In any case the older conception of ideational type has to-day given way to recognition of more complicated artuations. Most of us are deriterous enough in shuffling out mental cards and are able to pull out at demand, picture, echo, odour or what-not. We belong to the so-called mixed or indifferent type, although most of us have preferred modes of imagery. Usually it seems to be the requirements of the situation and not the ideatornal-type of the individual which determines what form the image shall take. A song may indeed be imaged in anditory terms; but a landscape visually. Currously, too, we may employ one kind of sense-material in impressing a given content upon our memory but utilize a different form of imagery in recalling it. We pass easily from one mode of representation to another, and are willing to accommodate the investigator by responding variously at various times. If we care to make the experiment most of us find ourselves able to call up at will a visual mage of the colour red; an anditory image of a ringing bell : the salt smell of the ocean : the taste of lemonade; the image of shaking our head or of rassing our arm.

Occasionally, however, the psychologists, m course of their investigations, find a subject who reports a complete lack of capacity to ideate in some one or more mode of imagary. There are mentally blind and mentally deal individuals. And as a matter of control, investigators may find it more profitable to approach certain problems from tims negative side of incapacity than from the positive aide of undue facility in the management of some one form of image.

CHAPTER III

ILLUSTRATIVE IMAGERY

CENTAIN readers have most interesting reports to give us of the mental filter training with which they embellish their reading. Most of us have experienced a shock of discomfort when our visualization of the beautiful herome is confronted with the actual filteration found between the book-covers. Again, we have plotted a garden and built a house under the novelist's directions, when suddenly, presto charge! We find the statement that we have built facing north should run southward or that we are looking dawnward from a western window. Of comme much of our mental illustrating is done in very sketchy form. Occasionally a lot of landscape flashes out with starting clearness, or the hypotic effect of imaginative literature ends by giving is unages of hallocanatory power, but, usually, we are content with fragmentary and occasional betteres.

We are, however, not content with more pictures. We entiven our scenes with sounds; we carrich them with colum; we experience all manner of temperature and tachle and organic effects. But after the detailed descriptions of the former chapter it is not necessary to cuts proofic nustance the

furmer chapter it is not mossaary to ents specific mistances. The detail and virofines with which we viranize is, as we have seen, a matter of individual difference. Reading may give us projected purtures of such distinctness that if we built presented the artist's skall we could hang our homes with the loveless of scenes. The imagination that presents the world it itself in vivid and connects images with definite space-relationships and definite tactule values we have described as the plastic imagination. Readers of this type of mind demand from the authors and poets they read described of imagination, one whose imagery is fleeting, vigue, with contours washed away, can empty a fur-fetched analogy, an emotional

figure of speech, an atmosphere story that the plastic-minded reader rejects as should.

Often we appeal to memory to illustrate our reading for us. We particularize to the greatest extent possible. We interface the text not merely with a general visualization of a river flowing between green banks but with a photographic representation of the Massisappi as it appeared from the carwindow one particular day in May. We may even particular due by adopting some feature or person in our immediate environment to do duty in the story. Certain readers have a habit of constructing with great effort, and sometimes with the help of notes and the instructions of a teacher, stereotyped images that serve thereafter for "set stage pieces" for the innear performances.

Our of the most interesting and complex forms of stereotyping is the utilization of a number of given backgrounds with which to embellish the setnes of which our reads. I can convey an excellent idea of such "background" embellishment by quoting from a report of one of my subjects. These backgrounds are described as they occurred in the reading of some one hundred framments of poetry —

"There are a few defaute visual backgrounds. The foreground or canter of the pattern of fill non-worsty train, but to serroundings are the same and include about us purple at It ould really see if I were looking at such a score. The colours, such, and disfaurce are very realistic. I call them (the backgrounds) would, but, as a matter of fact. I think three is normtart does not have some regular secompaniment of warnth or toolouse or wind or rain, almost all include olisating images and some call up sound. The strongest images are in the cotter green, visual, steenal, distance, and softhirm. I think their is always a feeling of my postnon and sometimes there are kinastifiche manes.

"Any clear or definite picture rather calls up one of these backgrounds, or che makes a new one of its own. A confusing description, or one that it is hard to image, has no background at all, and breaks up quickly

"(a) The most common background as a meadow or meadows filled with flowers, causally white cloyer. These are a few raisfactes, and a good many little woods or clamps of trees at the mar part of the partner. The country is algebrit helly, and there is a three sky with some light clocks. Everything is bright with manhane, and there is a little cool brosse that

² From "The Imaginal Reaction to Poetry." University of Wyoming, Dept. of Psychol., Bulletin No. 2.

sets all the flowers needing. Sometimes I hear the trees

rusting. This is usually an actly morning meture.

"(8) This is a variation of (s), much the same except that I am faring in a different direction. There are steeper helis and the woods come down almost to where I am standing. A little brook flows out of the wood and down past me, through the meadow Tasce are many more flowers than m (a); it ms to be cartier in the spring and much later in the di

" (a) Every suspice of dawn unage fits into a factore of wild hills and blue mountains under a great rosy sunrise I am looking straight east, where the sun comes up over the highest mountain. There is a kind of 'mackerd' sky, and the clouds are all on fire with colour. Everything is cool and highed, but after I have thought about it for a minute or two, a little breeze comes up, and the colours seem to grow more and more vivid I cannot make this background last so long as the

"(4) When I read about sunset, I usually see a sky full of resy clouds, above a country of low green hills. After a while, the colour contracts until it is all in one place, and there up a great dusky coolness over everything, so seemt that I can tasts and smell it-it a a kind of varue mare that a real

supert usually calls up

" (c) This is a picture of bare brown hills and hollows, very stony, with a great wind runbing over them. It is very sunny, but the recture is mostly one of wind, with tactual, temperature

and auditory images and a very pleasant emotional colouring

"(f) This is a queer picture that I get when the description
is too abstract for any other background and yet definite in
the one mage that it calls up I seem to be looking at something in space, with great depths of air behind it, and this last picture is full of wind

"(e) A meture of yellow wheat-fields with much sunshing

(A) The interior of a church or cathedral, undoubtedly composed of memory elements which are built up into new combinations, for I have never seen a church exactly like it I am standing in the auto not far from the change! All visual. beautiful light and shadow effects

(1) A thunder storm in the mountains

"() Another storm picture, very odd. I seem to see the storm up in the clouds somewhere, there are great dark depths of cloud and sudden alluminations of lightning. A great deal of sound (thunder), wind, and rain, and many tactual and thermal mages

"(i) An image of hills very far below me, with a great crowd of people singing and shouting Auditory images, much spinshins, and great depths of air

" (i) An autumn picture much like (b), very highly coloured and money Tactual and olfactory images

(m) A frosty morning Yerual, temperature, tactual, and

authtury mages. "(a) A medievel picture, first imagined when I read Mark Twam's ' Joan of Art,' eight or nine years ago One end of a hall blazing with sunshine, people in medieval dress, heralch with trampets.

" (σ) In a great evergroen screen: duak, warmth, the odour and reside of trees,

"(p) A wood of young trees just leading out in the sunstance with little brooks flowing through it. Observey, tactual, and anothery (children's voluth).

The report given above was written by a reader whose virgulizations are obviously plastic in character. The almost infinite diversity of illustrative imagery that may result from the individual differences in imaginal type already described may be shown by a comparison of this report with one on the same fragments by a reader (Gwendelyn McReynolds) whose imagery is diffuent, amounted. These two reports with suffice to point the contrasts in experience during reading :—

"The background or setting for each fragment was almost wholly vanis! However, instead of seeing a landscape in a room, or a town such as one might be in contact with any day, my settings were in fantastic, strange worlds. An entire fragrant neight be suffined with one colour, or there might be a shifting in the colour in the course of reading. There were objects in the settings, but they were not real objects— trees, chairs, or birds. They were often more patterns of light and alades—suggestive of beautifully proportional and distinged oubsit designs—their there were dark, overlanging Glooms, nume irruphile ru form "Everything was extremely but and tall in these settings" Directions were always felt. It was natesteeding that while I did not propose the mages to one definite place in front or behind ms, when I was in the picture I was power in the darkness nor was I in the glaving brightnesses. In postuse where the setting was more or less ordinary, my rooms were grotesque, hung with robes in gargeous colours, or very light and besuitfully undowed all sround. There was a sense, too, of the isolation of these rooms. In fact, all my settings are pervaded by a feeling of remoteness. I monation their grotesqueness—they are so unity in retrospection. when their grotesqueeness—they are so only in representation, when it am reading they seem anticulty natural and usual. I am spit to be on a lower place than are the images in possion where where the images are more merital in those, I am locking at them from above. I am farther away from them in this former than in the latter, for Objects which come into these settings in the course of the reading of the fragment are seen more often as a visual-innaretheat, representation of their meaning or mood than as the mage of the thing itself. If the wood of the person in the fragment, for materice, is one of despair, I see a Frentzhad Carrier, when the money a case of fear, there was Cruzel; when a bird is monthoused, it was a treast to legit, going higher. In the first two examples, there is no rouge of a man or defined person. Such an image, the Prostrated Carrie, for instance, may be accompanied by an image of Rives—agt not to be at all commented with the Curre, but

staring upward, or outward at Life They are large eyes, which make me shrink from their herrified desparing. Other organs of sense may be magnified and personalided in much this way— anything which comes into the fragment may. It is this which would make the images, with their already noneral settings, most probably unintelligible to anyone who might see them

projected as a pointing.

"For these visual settings and characters, there is an anditory accompanient, and though I have mentioned some elements in the fragments which come to me variable, the details are much more hable to be auditory, olfactory, etc. I might say here, too, that I feel that all my venal images may contain something of the kinasthetic, to a greater or less great degree. To go back to the auditory images they are much more natural and distinct than the visual I hear routings, burrings, marmatage, mosting groanings, singing, hughler, just as they are brought into the verse. At the end of a fragment I naually put them all together the sounds and have a very meaningful anditory whole My anditory images come not only from auditory words, ring — talk — etc. but from other words. In fact, they come much more freely and richly from other words—such as 'splendour,' 'death,' 'purple,' 'bewildering,' sche,' 'pak, 'qurering,' 'marty' I find no clear-cut symmethesia, and three anditory images may be only a result of association, but they are very rich and real. By clear-cut synasthesis, I mean no sure system of shift in mages. My auditory mages often, too, form a more eventful, so to speak, environment for my characters. As an example in Fragment 29 I have a complete andstory image of the myrad nonce of Earth and Earth's vibratants—the among of birds and russe of singing voices and matriments, the noises of little countries, the poises of the Ground riself, thendering of requires, the groups of the trouble fixed, thindering of regames, chattering of people—crowed of people—the screecing and sturdy familie of cases, all these—not a bot comforting, as the poet perhaps unbanded Earth's message to be, but becoming and macking with hind seeler of comfort. Here through my images - absolutely spontaneous ones - I have supplied a whole story from the fragment."

CHAPTER IV

LOCALIZATION AND PROTECTION OF IMAGES

A grupy of the spatial characteristics of mental images may be recommended to those philosophers who are interested in the problems of mor-Bucklean geometry for there are introspective reports that suggest curious capacities of the mental cyc to see m ways not possible for the bodily eye. Some of these nossibilities will be mentioned in the present chanter.

Casual observations may be gathered from the Interature on imagery that show that we can and often do actually project our images into the external space of real objects Take, for example, a zurl whose habit it was to project the imaged words of her spelling-lesson into the palm of her hand and then, later, at the time of recitation to read off the imaginary letters, thus exciting the curiouty of her mates Often I have noticed public speakers who were, I was confident from their manner of speaking, reading from a visualized manuscript, and one embryo orator I have known broke in his eloquence at the very point in his manuscript where he had blotted the writing. Musicians, too, perform often from visualized scores; such visualization is, indeed, advised by instructors. Designers may have the power of projecting their designs upon the receiving surface, testing them out before actual construction begins.

In some of these cases we may be dealing with adult Elizables who, it will be recalled, project their images into external space, but the posmibility of training oneself to project images shows that such capacity is not limited to individuals nosessine the sidetic disnostities.

Dr Lillien J. Martin, Professor-Emeritus of Stanford University, has utilized the projected image in an exhaustive study of imaginal characteristics. Her method required the

³ Do Propaktionsmethode and die Lokalization visigalier and anticory Verstalkingshilder " Zeck f. Psychol., 61 (1913), pp. 321-545. Material used by permanent of the author.

subject of the experiment to project his image of an object side by side with the actual object, thus enabling him to make detailed comparison between the two. By use of the Projection Method, Dr Martin has been able to show that there is a general tendency to report visual images as more vivid than they really are. It is only under unusual circumstances and in the case of unusual people that one can see with the mind's eye as vividity as with the bodily eye. As one of the most interesting results of her study. Professor Martin has been able to determine all possible ways of localizing the image. Of these possibilities tim, at least, are of interest to us in our study.

(1) The image of a visualized scene may appear projected into the locality of the actual scene. The observer may take a bind's eye view of the whole as if from above or he may assume a position on the edge or set the saids of the scene. Such localization of an imagined scene may be accompanied by a loss of consciousness of actual surroundings. Visualizations that give the trance feeling always have such a localization.

(a) The visualized image may be projected to a distance but the observer feels that he himself is in the midst of the notes.

(i) The visualized image may be projected within the room where the experiment is performed. Sometimes curious apparent changes in the size of the imaged object occur in order that it may accommodate itself to the room; thus landscapes may be seen as pictures on the wall or the observer may seem to gaze upon a landscape through a window. This "looking out of a window" consciousness while visualizing has been frequently reported to me by subjects upon whom I was experimenting. Sometimes small objects are projected on the floor or table of the room and, at times, appear imreased in size.

(4) The image may be projected to the wall of the room in which the experiment is carned on, the wall appearing demeased in size and withdrawn. This form of localization is very rare. It is related to a comious dutance-fluxion that Professor Carr of the University of Chicago has described.¹ Professor Carr found that certain persons report the strange

^{2 &}quot; Visual Illumon of Depth," Psychol Rev., 16 (1909), pp. 219-235

experience of having an object in their environment retreat capidly, becoming smaller as it retreats. A girl, for instance, while gazing intently at a preacher in the pulpit suddenly finds that he is withdrawing to a great distance, becoming progressively smaller and smaller. The most curious report of this sort I have on record is the following: While issning against one end of a psano and talking with a man at the keyboard. V would suddenly experience the illusion of the man and front of the piano shoping off into the far distance while the end of the piano upon which she was issning would maintain its natural size and position. In part, such distanceillusions would seem due to sudden shifts in visual fixation. Some people have voluntary control of the field of vasion and are able to see an object as near and big or far off and small. Dr Martin's experiments show that the distance-illusion may also appear in imaginal experiences.

- (5) In the fifth form of localization, the image may be projected to its own locality which, however, hes belowed the observer who feels himself located in the experiment-room.
- (6) The visual image may be projected in front of the observer and localized. None the less, the observer has the faching that the whole is in a space that he cannot identify, which stands in no relation to the space of the experimennoun. The observer reports that the mind's sys and the bothly eye are distinct organs, each with its own space-world, a duplication which, to repeat, misse some interesting questions relative to the psychology of space.
- (7) The visual image may appear located in the fore-part of the head of the observer, who feels himself sitting in the experiment-room; or
 - (8) Located in the middle of his head, or
 - (9) In the back of the head; or
 - (10) On the eyes or eyelids.

In the last four forms of localization the eyes may feel drawn or rolled back and the feeling of tension in eyes and head may be disagreeable. There is, probably, a near finition point; images may be diminstrue. Such forms of localization occur frequently when the eyes are closed during visualization.

In general, the spatial characters of the visual image appear to be determined largely by the normal bodily attitude of the observer and his habits of eye-ancommodation and convergence. Certain individuals are inclined to focus the eyes for near vision; others, for far vision. Fluctuations in localization count in that the focusing of the eyes and the attitude of the body depend assumement upon the character of the object visualized, upon the direction of the attention and upon certain factors in the experimental conditions such as the size and illumination of the room where the experiment is curried on, etc. In the first form of localization, the eyes are adjusted for far vision; in the second, the images have a tendency to become smaller and the field of vision to become more extended. In the third form of localization there is a definite fixation of the eyes upon some surface or some object in the room with expectant attention.

Leo Stein in his." A B C of Æsthetner" has suggested some interesting experiments concerned with the differences in pretorial effects produced by voluntary shifts in focal planes. If, for instance, you look at a person who is opposite you and place the focal plane in front, the person resembles a picture but if you place the focal plane behind, the person looks like a staine.

"The emential difference," Stem write, "between parming and couplaint in precessly this difference in the placing of the focal plane. The front plane is the plane of the frame, or which a preture is actually pained, while the rear plane at the plane of the background against which scriptured celebe are

It should be obvious that a comprehensive study of the localization possibilities of the image is no mere estalogating of mental peculiarities without significance. We shall see in the sequel that sethetic detachment, literary empathy, figurative distortions and the like are tide up with the spetial characteristics of the inner world. To illustrate, the fealing of seeing a visualized andexage as though framed by a window symbolism the attitude of personal datachment that characterizes sathetic moments. The poet may himself suggest such visualizations as Keats did in the libra;

[&]quot; , magic casements opening on the foam.
Of persions seas in facry lands fortern "

Again, the trance or mystic feeling is probably conditioned by optical factors. The rowing eye-movements usual at the perceptual feel may be replaced by a steady firstion during visualization. How such steady firstion may be induced as one of the mysteries of the poetic response, just as it appears to be a problem for pertorial art as shown by Stein in his illuminating exposition of how "To Make Pictures by Seeing Them."

The fact that the mind's eye in using the mesculature of the bodily eye focuses now for near and now for far vision or shifts with great rapidity from one to the other caplains in part the freakish performances of the mental Movies. I know one astigmatized intropectionist whose visual images are continually aplitting and floating off in curious sections and others whose visual images are always located up and to the right or left ade of the field of vision. Some individuals have a double tier of images, an arrangement like that which prevailed in the old plays, where Heaven and Hell were set at different levels on the stage. To the degree that putorual art reproduces the uncer world it will at times find distortion a natural mode of representation.

Variation in size of images has already been illustrated and some of the determining conditions suggested. The dimonaur must perforce shrunk in size when he stalks into the study of the palsontologist and the leeberg dwindle in dimesions if it would accommodate itself to the seasope that the painter is visualizing on the canvas. But emotional trends as well as eye-habits affect the magnitude of images. Gigantle visions have panin-striction many an Ichabod Crane. Cate are always visualized as mammoth creatures by a girl of my acquaintance who suffers from an unreasoning lear of cats, a not uncommon phobia. Mampassant, the writer, for some unknown reason visioned butterflies that were miracles in tite as well as colour.

A playing with space-relations gratifies the master-justimet, and we indulge it not only in toy-making and collection of helo-k-braz but in all sort of ways in art, both pictorial and literary. The artist to-day magnifies that part of the figure which he is most interested in. The shifted may be presented as mainly arms and legs—head a mere golf-ball; the fly in the counce picture may be represented as gigantic as it teels. The poet, too, when in the hyperbolic mond does not hesitate to evoke gigantic images. Much of the entertainment of such a story as "Alice's Adventures in Wonderland" lies in the way it makes sport of spatial relations.

The Martin Projection Method was elaborated by its author in an effort to obtain a satisfactory way of studying images: but many individuals find difficulty in projecting an image side by side with an object. They don't with ease see a visualized ink-bottle to the right of the one they are using. This is because reality-thinking fights so hard with wishthinking that images are profity completely banished from the average man's life or else appear so than and ghost-like that they cannot hold their own beside the real object. For this reason many people if asked to visualize an object at once close their eyes in order that there may be no competition between bodily and mental seeing. Others gaze into the distance with a fixed unseeing stare. Only rarely do we find an undividual like Tissot who tells us that the visualized scene obscures the actual one. But if as adults we respond with some difficulty to the request that we project into the exterior world our images of objects it as not the case with the child Children, who m a high percentage of cases possess indetic imagery, project their images readily.

In connection with self-projection, which we are to discuss in the next chapter, we shall find other evidence of freedom in handling space characteristics in the inner world. In part, self-visualizations are resorted to in order to increase possibilities in the way of manipulating space relations.

CHAPTER V

ON SERING ONE'S SELE

Wit are told the story of an unfortunate queen, subject to many court intrigues, for whose desconfidines some legenious enemy placed a murror at such a strategic point in the Palace that in her daily prominades Her Majusty quite frequently beheld herself decapitated—an experience that so hounfied her fit was in the days when queens actually did lose their heads on sundry occasions) that in her thoughts she always saw herself headless.

Most of us have pleasanter associations with the murror than this unfortunate queen. It usually contents itself with beheating our vanity rather than our persons: it may seen gratify our self-esteem. However this may be, a visualization of the reflection of one's self in the nurror is perhaps the most used of all self-symbole. But the angle of capitulation, so to speak, may vary considerably. Front-free, profile, and backview are all pleasant possibilities—the latter adopted apparently to assure one's self as to the cut of one's clothes!

Instead of a reflection in the mirror others utilize a photophoto as their official representative in their thoughts of themselves and find it an easy way of beging the question to far as time to concerned, since a favourite photograph may do service for a quarter of a century.

do service for a quarter of a century.

There are individuals who in their visual glumpers of themselves appear in abbreviated outlins or schematic forms or in fantastic positions. For example, there is the instance of a clever woman who, quite hise the unkappy queen, always purtured herself, and with no apparent reason for so doing, as a figure complete only up to the head. And there are case of men who see themselves in ghossly semblance, as a grey film or a faint sketch of a lumina bang or even as nothing more than a penulled exclanation point. Some individuals adopt their shadow as the true representative of themselves.

There are thinkers who use their names as a convenient symbol for self. In fact, one frequently cherakes a suspecion that a highly decorated sutograph or one with an elaborate puraph actually stands for myself in the eyes of the neaman.

Nor is it surprising that for those persons who think In motur term, self should seem to be the feeling of strain and muscular sensation that accompanies their most characteristic bodily attitudes. "My thought of myself," says one, "is a mental reproduction of my favourite position of meditation, my ohm resting upon my clasped hands. I feel this attitude mentally. I do not see myself; at most, I have a flecting shadow picture of my clasped hands against which my chin is precision so insistentive."

In the inner world of our thoughts we may clothe ourselves in the most unbecoming garment we ever owned, or, instead, array ourselves in purple and fine lines. Frequently, indeed, it is one's visualized clothes that seem to be one's most real of selves. Mostly we dress the magmany self rather than the corporeal one; select our millinery to adorn our most youthful and fatching smile, choose our mantle to drape our most making ambition. The petite college maid who takes part in all imaginary somes robed in her favourite azure and silver evening-gown may serve as an example. Sometimes, it is true, the mongraity of her costume amuses her, but none the less she continues to manupulate imaginary pots and pans gowing this becomingly. It is thus same maid who explains that in her thoughts of hardfil she niver appears mall

There are fashions and colours well enough adapted to our corporeal persons that our imaginary selves discard

[&]quot;I feel tall," she says—she measures early inches—" much taller than Helen, though in the architectural eye of my fraends she surpasses me in stature."

"My most mismate sides of myself," reports another college

[&]quot;My most minutes vice of myself," reports another college gat, "as the role alled dess of my smollers' that from childhood I had admired and which I knew was to be mine some day Clad in this role of all three which had been re-tainhand anothing to as vice of my own, I have taken part in all my mental rebursale of the future. Always the grid within the dress is of secondary importance, her face in fact is somewhat vague and only distantly related to my actual appearance."

 $^{^1}$ See the author's " The Image of the Sali," The Egac. Be excelled, 4, 1909.

emphatically. At times, nodeed, our imaged self chabes abruptly with some suddenly presented objective representation of ourself. Face to face with our image in the mirror, we woulder what soundrel gave it (the mirror) such an undertering ourvature. We report indignantly the struckma photographs of ourselves that our complacent friends consider accellent likenesses, and when the agent punches our execution ticket "stout and old "we wunder how such a description can possibly identity us at the total-office. Note of all we study pichosphy—and natural science—to explain the dumnished and flattened fastures that stare back at us from the best of at teasones.

These symbols of the self as inwardly seen or falt are emotional suspenots representing an obsessive attribute toward. an environment hostile or carearing as the case may be. They mirror the sensitiveness of us; our pride and vanity; our secret desires and quaint concerts. Who can doubt the high degree of consciousness of self that leads a pretty gurl mto seeing herself in every mental picture—and pover alone. always surrounded by a crowd of spectators? Or the significance of this report from a society woman who had made an unconventional marriage that she sees herself in hermind's eve as a blanket-draped storcal figure of an Indian aquaw, frozen in an attitude of defiance? Or the whemsical mind of the man who took delight in pictures himself as a skaleton sitting demonstry on the North Pole, waiting to welcome distrayedy whatever bold explorer should win his way thither with the proud consciousness of his being first on the spot?

What the social psychologist calls the looking-glass self the notion of myself that I see reflected from my naghbour's eyes—may create my symbol of the self. Or dushing the form this takes I may compensate for my faulter "to put myself over" in his by winding the tyrant's accepte to my private funtasies or even by discarding my own boddly gament and appearing boddly as someone else—as did a timel girll who in her thoughts of hereif always appeared in the guise of a beloved and masterful brother. The projection of the self into other personalities in this fingline is familiar to us in dreama, art, and religion, but it appears from laboustory reports that it is sometimes the feature-act of a very simple and matter-of-fact thinker.

Psychoansiysts, in their andsavour to solve the enigmas of personality, might use to great advantage self-vanahashona. The projection of self-into a child-image or a youth-image may quite well point to regressive tendencies in the individual. And our illustrations have above that in other respects, too, the self-image may be used in a diagnostic way.

Self-visualizations may also be utilized for very practical and objective purposes, such as a mental trung-on of a new gown. A young teacher reports that her visualization of himself before her class assures her success because it gives her self-confidence. That a self-image may also serve a remote purpose is shown by the case of the young man who sees himself armed with a doctor's case, an index of the profession that he intends to train himself for

According to Rusk, writing in the British Journal of Psychology, children are especially given to self-projection it cates for example, a small boy's reaction to the word "Butter," in a test on meatal association—"he saw a dairy and "me going away with butter"—and remarked that it was a brinny thing to see—"me soung away with butter."

An interesting utilization of the Visual Mo has been found by Professor Wheeler in studying the experiences of a blind subject.

He writes "The 'visual me' is evidently a product of repeated bindencies on the part of the subject to weather himself as he walks about m order to ascertam, if possible, whether he showed his bluddness in any pecuhanties in walking."

Vigualizations of the self just as other visual images are localized in the various ways suggested in the proceding chapter. The "visual ne" may be projected out mot the world of external reality and play its part with other life-inzed figures or it may assume famylike proportions as was true in the case of a gul whose vasualized self appeared as a tury figure by her side.

Dr Martin believes that the visualization of the self as part of a scene and in distinction from the felt orientation of the self that is conducting the observation serves to extend

I " Represents on Martil Association in Children," Vol. 3, 1910.

the field of view and that, in fact, the projection of self into visualized scenes has a prime function in the rationalization of the space-relations of the inner mental world.

Let us quote from one of Professor Martin's records :--

"I have a memory image of mysalf seated in a freed's heater at s. From r I see my franch at y, and that whole add of the krichen, but not the add as unless! I turn my head Bet have a mother me standing in the door at a, and that whole add there is mother me standing in the door at a, and this ong sets as my freed y from a, are that and of the terribus. The me at a has been isong y, but when I turn my whole body around any chair, that me turns to face the door at a. The metant's turned, the use who was performing the experiment, realized that I had two images of myself looking at such other. This appeared to use to be manifestly about, and then a could no longer set a. There seemed to be a wavering of personality in that there was something at a, which saw s, but which, it could not see the Matter could see so the hall through it had for where s was, the view anapply wand't there—and these the view would change and s could see a but a could not see s."



This most interesting report by Dr Martin illustrates not only how by means of a visualization of self the spatial world may be extended but also how such mental gymnastics may result in seeing the self twice in one pirture.

I have a number of reports on such a tour de force, gathered mainly from accounts of imagery that accompanied the reading of poetry.

A trained psychologut (J) who core served me as subject in an experiment on imagery gave me a surprisingly large number of these double self-riposchous. It was in his case, I am certain, an expression of an unusually scate feeling for spatial relationships; his orientation with reference to both this observing and his observed self was exceedingly definite. The distance of the visualised from the observing-self varied from a few feet to several hundred yards. In the latter case the visualised self appeared reduced in proper proportion,

When the observing-self as well as the self-observed was visualized a double projection of self resulted. Thus in anticepating a trip, I would see himself going to most himself. Self number one would be largely a motor self with visual slimpses of the feet and self number two a schematic figure approaching self number one from the opposite direction.

I's reports concerning the complications of visual imagery by other sorts is important here. He may feel in his person as reader an appropriate posture, movement, or touch sensation instead of projecting it into his visualization of salf.

Time: "See self from behind standing on beach, facing one. Has just thrown a shall into easter. Vertal and motor consciousness of right sem flowed, tendron in back tief? No fasion of viscal and motor consciousness. Sometimes an activation of the second of the second s reduced one-fourth "

J may get a double cutaneous report from the observed and the observing self as in the following two reports :--

"See self lyang on the ground on back. Feel the ground against back. As observer, standing. Get ordanous (tondscenations from both bottom of feet and back against ground Cataneous imagery for both vanalised self and observing self "Again," motor feel of walking behind variables desit, which

appears as a small barefoot boy walking west. Cutapaous images, from bare feet "

Mrs Curran, whose vivid imaginal experiences have been commented upon in an earlier chapter, has also described how an author may project himself into his stories? She reports that as she watches the unfolding of the tuny penorama of the story, she herself, small as one of the characters, walks amone the people or stands as an onlooker. Sometimes the trov floure of herself takes part in the play. She smalls the flowers in the garden, tastes the fruit of the market-man, or feels the texture of a foreign fabric.

That most terrifying of all apparitions, namely, the ghost or double of one's self, can be explained as the projection of the self-image into the external world. Only occasionally will the image be sufficiently vivid to startle the sear, probably only under conditions of great emotional ancitement as when Goethe riding away from tryst with his lady-love met himself

^{1 &}quot; A Nut for Psychologuts," The Unperkine Review

on the road riding back; or Shelley, rousing the household with his shrisks not king before his death, gave as sufficient explanation for his excitement: "I have followed from my room the embodied shadowy image of myself."

That visualization of the self is a common experience for readers is clear from the cited reports. That writers also have such experiences up shown in the citations from Mrc Curran. Visual self-projection occurs also in art experiences. Observers of painted landscapes may project themselves into the picture, perhaps see themselves whiting down a forest-sale or clambering up a steep mountain-slope. Stein believes, however, that one keeps out of a properly constructed picture; it is a rhythmical whole that shat one out.

Undoubtedly the significant thing about self-reference in act is the attitude toward the situation that is symbolized in the form assumed by the self-projection. Some readers project themselves into the midst of things, others keep on the outsides as detached and critical observers; while the writers who adopt an impersonal and marginal point of view-symbolized by the position of the self-produce effects very different from those created by one who views his scenes from the centre of action. Amplification of this topic must, however, go over to a later chapter in which an objectivity and subjectivity in art creation will be discussed.

¹ H B Smith. "Books and Autograph Lettens of Shellay" Sorther's, 72 (1922), p. 74. **Lee, ctd., p. 256.1.

CHAPTER VI

THE SIGNIFICANCE OF IMAGES

It is a fascinating study in the psychology of the scientific mind to note the enricus fluctuations in its interests from one decade to another, quite like the learning curve fluctuations of the humblest tyro. At one time much work will be motivated by a particular interest, then another topic comes to the fore; later on, another still. By the time that the first topic is focused again it is increasily to modify the treatment of it by the new discoveries made in other fields. This is what has happened concerning the doctrine of the image Galton's questionnairs in 1880 initiated active interest in the image. Since Galton's day there have been attempts to explain all things by the course of the image and there have been reactions against it which have held the image to be a more or less useless encumbrance of the process of thought Imagery has been conneived by some as an extravagance of nature—a sort of mental appendix—fortunately harmless in the main as well as useless. As a final protest we have the Behaviourist's dismissal of the image with a wave of the hand and the casual remark that psychologists have given up the image.

Possibly there may be two questions for debate: whether the image crists, and if it does what it is good for. The first question seems worth discussing only in terms of a more accurate definition of the criteria of the image. The image as a descriptive phenomenon is abundantly attested to by very expert observers. Moreover—again algnificant of the curious trends in the development of thought—right on the heels of the dismissal of the image by the Behaviourist has pome the investigation of the eldétic disposition.

The question of the specific utility of the various forms of

² Inquires into Human Faculty and str Development.

imagery is another matter. Scepticism concerning the utility of much imagery developed early.

Galton in his investigations was surprised to find that his scientific friends reported visual imagery that was much more measre in quantity and much less vivid than that apparently nowessed by women and children. He concluded that abstract thinkers employ fewer images than do the more concreteminded and that as one grows older he loses his imaginal capacity. Galton was dealing chiefly with the visual image, and he was not at all concerned with mner speech. With these limitations in mind we note that there is confirmation of Galton's conjecture: there would seem to be a tendency for thing-imagery to become a less frequent occurrence and much more washed out and achematic in nature as we become more and more expert in dealing with meanings. A truementary fincker of an image, if it carry our meaning, is sufficient. A fully developed and detailed image may indeed retard the progress of our thought by distracting attention from the one point of relevance or by swamping us in a multiplicity of details.

Indeed, the advocates of imageless thought claim to carry on their thinking without a scrap of an image. Their opponents must, however, that they fall back upon sensory support m terms of perceptual stimulation, amiscular or viscosal tensorsa, and hence are contesting the issue. But this controvery has proved immensely stimulating aince it has opened up a great vein of psychic stuff that had been overhooked white psychologists were busy muning the state image it encouraged the snapshotting of svanescent attitudes largely kinesthetic and organize in character; the discovery of non-conscious sets as determinative of psychic patterns, and the recognition of fugitive, scarcely describable, all but boddless musances of thought. The image was reconceived, not as a static hard evisience, but a finid, flesting thing, moulded by every exigency of the moneymentary task.

Personally, I bolieve that a most delicate parallelsam exists between mund-stuff and psychic functioning. Our present-day methods of observation are too crude to permit us to carry our parallelsam far, but the reports of competent introopecunosits encourage the belief that when recommental ingenuity has solved the problem of objective control we shall make great discoveries as to the practical significance of even slight imaginal differences. Emphasis on the sensory modes of imagery such as visual auditory, olfactory and the like may yield to interest in other aspects, for example, the prechain or vacuumen of one's images: whether they appear in isolation or bring with them a rich background : their soutial and temporal characteristics; their mammial or imaginative function: the degree to which they are under control. All such phases of the subject deserve careful consideration as well as the significance of the reduction of concrete content until the image becomes a bare schema. Even irrelevant imagery which may occur not only in the form of superfluous additions but even in that of about substitutions may turn out in the second to be immensaly significant. The value of substitution imagery where we mean one thing and think another has been emphasized in a few studies. In figures of speech we resort intentionally to substitutious and to all manner of irrelevancies, a topic which must be amplified in a chapter of its own.

Analyses by expert introspectionists furnish us cluss for experimental programmes. The delightful report by the late E. B. Titchener on his own imaginal processes deserves careful perugal.³

Among many important observations I select the following which concerns the use of visual schemes To quote ---

"I rely," he wrotes, "in my thinking, upon weal imaging in the space that I like to get a problem into some sort of wind scheme, from which I can think my way out and to which I instinctively arrange the facts or arguments to some sweal pattern, and I must like by to think in terms of the pattern as I am as likely to think in terms of the pattern as I am to likely in the second which is a length of the second with the control of the pattern as I am to think in words. I mediarated, and to that extent I enjoy, an action when the words in the second in the se

Further on in his discussion he remarks that there is a serious temptation to allow such visual schemats to become rigid, "I have constantly to fight against the tendency to premature systematization." One can scarcely avoid making

² E. S. Trichener, Esperanopial Psychology of the Thought Processer, p. 6 t. Copyright 1909 by The MacMillan Co. Quotations represend by parameters.

a connection here between this psychologist's type of mind and the kind of psychology he elaborated in so great detail. Surely his imaginal precisocoltions coloured his system.

Says Wallas in his stimulating attempt to apply psychology in his Tie Great Society:—

"Many men who now do hard intallectual work with some more have, his the late Dube of Devoyshire, move sequined the power of following a virthal argument at all " And the author adds m a footnote, "In any case, men of the 'audible' type of mind have a natural advantage, part from transpo, over the 'vastalisers' [of whom the Duke was probably one) in oral argument."

What investigator has not contrasted the slow, almost measured report of a concerte vasadiser with the rapid fluent description of a word-fallather? What teacher has not sent the latter type almost in oral recitation to the disadvantage of his more deliberate classmatch but later outclassed in some form of constructives work?

In my own experience I have found maginal trends significant in counties ways. To quote from a former description :—

The property of the state of pit, processing to an extraordinary of a say of the sound state of the state of

Dr Lillen Martin has stressed the revelation of personality

¹ P. 243.

A Programms for a Psychology of Laterature, J. of App. Psychol., a (1916), pr 366-277

Psychology of Revealed by the Confunt of Images, Session, 43 (2011), De 18-29.

by the content of images in general. She concludes from her experimental studies that visual images reveal the mental and physical peculiarities and preferences of an individual and she suggests that a cataloguing of an individual's visual images constitute part of an investigation upon which a diagnosis of personality be based. Self-projective images would accuse to be executive self-prefered in a superior of the projective of the projective images would accuse to be executive self-prefered in a superior of the projective images.

The psychoanalysis also study in great detail imaginal phantasies. From their point of view, indeed, images arise in an endeavour to compensate for the madequaces of life, or to gratify a desire, as when the lungry baby visualizes his mother, or the lower his westerbart.

"As a child," writes Henry Cowell, a young muscal conposer, "I was compelled to make my mind into a nineral instrument because, between the ages of sight and forsteen years I had no other, yet dearned strongly to hear muso fraquently. I could not attend enough concerts to satisfy the crawing for muses, so I formed the insult, when I find stread them, of deliberating wholesting the compositions I heard and the properties of the composition of the composition of the comlete of the composition of the composition of the comlete of the composition of the composition of the comlete of the composition of the composition of the comtended of the composition of the composition of the comtended of the composition of the composition of the comtended of the composition of the composition of the comtended of the composition of the co

Cowell continues the account from which I have just quoted by describing the self-training whereby he learned to control at will the glorious sounds that leaped unexpectedly into his rund will be reports:—

"I am able now to produce a flow of musical sounds at will and to control part what they shall be I am, thenfore, able to work at any times, at the mission flow would continue upwork." And agence, "because of devoting so much attention to finding the finest form beforehand, by typing the initial time over mentally an every conceivable way, I rainly change a note as a composition is written;"

The utility of such imagery in a professional way can scarcely be doubted and the report is validated by the achievements of the composer.

The approach to imagery from the point of view of temperamental differences in a new departure but I behave great discoveries are to be made in this field. Varying urgency toward supression results in various will-temperaments ranging from that of the fluidic explosive motividual to that of the

^{1 &}quot;The Process of Masterl Creation," Am. J. of Psychol., 37 (1925), pp. 233-236.

deliberate individual who gets into action with difficulty. It is the latter who gives most evidence of possessing detailed and wirld visual imagery; for the former fragmentary visualization suffices, with much verbal and motor material.

I have ventured elsewhere's the suggestion that visual images are most apt to develop when there is a retardation of discharge tendencies, which might occur in the case of individuals possessed of an undue amount of nervous inertial or load or even under voluntary inhibition of a motor discharge. We have evidence that visual imagination accompanies fatigue and drowniness, and that dreams are not to be strongly visual. With a shift from a practical stitude, with its motor readmess, to an esthetic one, with motor relaxation, one would erpect to find visualization enhanced.

The tentative hypothesis sketched above developed from a detailed study of the images of individuals who gave me very differently patterned will-profiles. When I formulated the hypothesis I was not aware that W. Jarusch handles the eldettic image as one among other psychic and somatic stigmata and has distinguished between the Tetanoid or "T-Type" and the Bassdoword or "B-Type."

It is the "B" type of endette image, a flexible and variable sort, which is said to be found among the artistically inclined. This image occurs spontaneously and appears to be a pleasant experience. The "T" type of image, on the contrary, masters its poissesor, it persevers in spite of a degree to banish it, and, on the whole, is unpleasant. The point of contact between my coopertures and those of the Marburg School is that both recognize certain features of visualization as symptomatic of psychophysical trends, both describe a rigid image in contrast to a flexible one; both find the latter characterizing the more imaginative individual. The conjectural physiclogenia explanations in the two cases are different. Mine is quite frankly obsquire; the Marburg hypothesis is backed by some evidence in the field of internal modeline.

The real interest in this connection is the samular that imaginal dispositions may be exploited from the standpoint of the psychophysical organism. My own interest in this aspect

³ See the author's The Well-Temperament and str Testing, Chap. 18 ⁵ Loc. etc., p. 293 f.

of imagery originated in experiments on muscle-reading. For example, m locating a hidden object by lightly touching the wrist of a subject, I have learned to anticipate the subsequent report of the subject as to how he thought of the object. Strikingly different is the muscular tension of the visualist from that of the reagent who thinks in sub-wood terrors. The first is a noise accurate but slower guide; the second, swifter but more erratic. The whole matter of imagery may in the future be found to tie up with a most delicate conditioning of responses through functioning of the sense organs.

Book III

THE WORLD OF WORDS

CHAPTER VII

THE INNER SPEECH

HISTORY bears eloquent testimony to the power of the spoken word, now thundered at Cataline in the Roman Senste, now hunded by a Savonancia at a perverse generation. But the still small voice calebrates its vactories also, as witness the quaint demonian voice that Socrates was wout to quote; or the heavenly voices that drove the miraculous Maid on to triumph.

With such classic references to the linner voice we are all similar, but it has been left to the modern psychologist to determine the various forms that the linner voice may assume and to show specifically how it functions in everyday thought and in the making of literature.

To appreciate the points the psychologist makes one should observe the internal speech at first hand. You may do this by listening to yourself think, hearing perhaps your own voice ring in your inner ear. Or you may make your observations while silently reading this very sentence. Does each word echo distinctly in inner hearing? Or, instead, do you hear a confused mumble? Are you, perhaps, aware of nothing but varies vocal twitterings?

Don't cancinds at first bhash that your answer to all such questions is "No! No!"; that whatever may be the case for others you, at least, need no inner speech since, in reading, you take in the meaning of the text through the eye alons without saying or hearing the words; that your thinking is wordless thinking, without the ghost of imaginad sound. The truth is the inner speech is on automatic a process, carried on its or mechanical a fashion, that it requires considerable effort

to concentrate attention upon it. But the sceptic may be converted by a visit to the laboratory where he may watch a record made on a smoked dram by a needle that responds to a rubber diaphragm, which, in turn, vibrates with his vocal movements, during silent reading or silent meditation. Sometimes, of course, such movements approach the vanishing point and the inner sounds, muffled perhaps and indistinct, constitute all of inner speech. Sometimes the plant speech is not so silent, as witness your neighbour at the photoplay whose lips move visibly as he reads the leader on the screen. I recall, too, the case of a friend of mine who found his vocal movements in silent reading very annoying since, because of them, he was unable to manupulate the double process of reading the morning newspaper while eating his breakfast. To help yourself determine how closely you approach a purely andstory image of a word without an actual twittering of the vocal organs, try the classic test of attempting to hear yourself think the word "bubble" while boiding the line rigidly apart by the insertion of a couple of fingers between the teeth,

Let us observe for a few minutes at close range the inner speech as it functions in three specific situations; first, in silent meditation or reflection; secondly, during silent reading; and thirdly, in literary composition

To reflect, to meditate, to think, is, to a great degree, to talk to oneself, but in what varying accents? Does your inner voice, for example, assume the characteristic tenequality of your speaking voice or does it adopt the very different intonations of someone else's voice or is it wholly without colour? How often for you does internal speech become internal song? Is your voice a projected woice heard from a distance? If so, does it sound from your right side or your left? Abnormal cases furnish curious illustrations of the projection of the voice into various parts of the subject's own body, as for example, his right foot, or its seeming origin in some external object in the immediate neighbourhood. Specifically, in whose voice does conscience speak? Your own? Perhaps, instead, conscience adopts the inflections of a conserious neighbour or of a querulous grandfather. Not always, however, is the inner voice one of conscience; it may be the voice of the mocker or that of a very literal-minded critic. Or your gairrulous self may indelige in long internal soliloquies which easily pass over into actual sound when circumstances permit and indirate that a soliloquy is not a more dramatic convention, but, on occasions, a very natural form of behaviour.

As common as the solilouty is, perhaps, the internal dialogue, for often our thinking dramatizes itself and the inner voice speaks in more than one character-ofte. Various relations may exact between the two different characters, depending upon the form of the inner speech. For both characters the inner speech may be motor, but more strongly so for the first person of the dialogue, with whom the thinker identifies himself, that for the second. Or an auditory form of the inner speech may interplay with the motor, in which case the thinker identifies himself with the latter and treats the acoustic process as an intruder. Again, the inner speech may be wholly auditory, with the possibility of intrusion of many voices with one or name of which the thinker identifies himself.

In the writer's own case the inner speech during thought proceeds usually in dialogue fashion, in which one vedoe is that of Me, the funker proper, a servous-minded, worksday individual; the second voice is that of the critic. This second voice is more highly pitched than the first and much more ironical and facetions. Its apparent function is to interrupt the first speaker, to question her conclusions, to interpret mocking comments. Sometimes when the first voice is engineering composition, the second manages to slip in a parenthetical remark in spite of the rhetorical conscience of the first will (who is absurdly finally !)

Often these two woess indulge in a prolonged conversation in the before seep when the thinder would hise to command an inner as well as an outer silence. And then as drowsiness becomes more and more prenounced, the first voice drops lower and lower, becomes the merest shadow of vocalization, until, suddenly, the almost-eleeper as atomsed by the sharp voice of her second Ms saying to her first: "You will have to speak louder if you expect me to heav?"—a comment quite starting, for can it be possible that the second Me dilla's know what the first Me utunded to say?

Investigators of the reading consciousness report that inner

speech during ellent reading is practically universal, except in a few rare cases of persons who have completely achieved visual reaction: who possess, that is, ability to take in the meaning of a printed page by the bare eye, as it were, with no need of announced vocalization of the words read. Most of na. in reading, use the inner speech extensively although heightening our speed by clipping our words and telescoping our sentences. To such an extent may we carry this process of speeding that when we try to read aloud we discrees ourselves by the jumble of sounds we produce ; in reading foreign languages we adopt the pronunciation of our native tongue; and, in general, we sacrifice enunciation and distinctness to candity; words to meaning. Even so, investigators point out much useless expendature of energy in reading. After all, reading by people in general is a very recently acquired social habit, only a few generations old at best, and it is no wonder that it has not yet been clipped to the line of greatest efficiency.

The range of individual difference in reading-rate is truly amading. An unusually test reader may have the advantage over a slaw reader of some thousands of words even within the hour and, within a bletime, of several infraries. There are many factors influencing the speed of reading but, as we have already suggested, the quality of the unear speech is of first importance and the amount of visual reading done. One may develop by deliberate effort one's capacity for visual reading and such development is strongly encouraged by educators since, other things being equal, increased speed of reading maless for greater practical efficiency.

Obviously, changes in style are developing as written speech shifts its focus of appeal from the ear to the eye. Short loose enertones and paragraphs take the place of lung periodic ones. Melody of language and oratorical periods yield to colloquialisms and clipped phrases. The personal seasy with its riscorely obturn, its dependence upon personal coloration of style, bids fair to pass into the realm of traditional literature. We may in time realize the Futurista' demands for a literature that is the "apothosois of the front page of a Sunday newspaper," whose content we can alward at breakfast or on the Elevated with no consciousness of the form in which it is presented.

Since, as I have suggested, general reading in a very recont achievement historically, we may well speculate in some such isolation as above concerning the changes style may undergo as it becomes better and better adapted to the camplex requirements of the modern man and the demand for scientific namagement of the sense organs. It is possible that the phonetic, or auditory, element may even become wholly objected in ordinary proce; stylistic resudientations so-called may be completely absorbed by advertising excellencies; but sade by side with ordinary proce there may devalop a highly specialized art, an auditory art of words, more dependent than even traditional poetry upon the nuances of sound and the modulations of the inner vosce. In another chapter we shall have occasion to refer, for example, to the attempt to make poetry a species of music.

Laboratory reports from psychologically trained readers indicate that there are actually four main varieties of the inner speech utilized in the unner reading of to-day, and any number of muzed forms. Summaries of reports obtained from four typical readers are given here, taken from my study on "The Imaginal Reaction to Poetry". They suggest a diversity on experience that rance many faccanating questions.

Let us hake, first, the case of S, for whom the section super, of the inner speech as relatively freed from the meter supert. If attention be concentrated upon it, the auditory supert of party nature the place of all other magney. S lays great supplease upon the place of all other magney. S lays great supplease whose man and sometimes accents the remain works as an excentrable feathers. In general, however, his reactions recrited in an appropriate voice with vary lettle, or, inequality with no vocal-moth categorizations of consequent the vote places had a law own , sometimes it is one suggested by the placesing or proceeding from some visualized character introduced by him to do the reading. Of one hundred and ten fragments of which was available character introduced by him to do the reading. Of one hundred and ten fragments of which was available to be accounted as a measurable contact than his own. Fourties times described as a measurable voice not the own. Once there was a darinct shift from a woman's be a near's voice, once a shift from a voice not retoned to.

Such a summary of results gives, however, bittle idea of the

³ University of Wyoming, Dept. of Psychol., Bulleto No. 2, 1911.

infinite variation in auditory quality that S introduces into his silent reading. Thus he may modify his own voice so as to make it more melodious. He describes the voices as sweet or plaintive or cree!, nasel or sometime, matter-of-fact or measured and dead. Sometimes the effects produced are grotesque as in a fragment from Swindpirms in which he hears a third's lise outil he comes to the phrase "Temble, full of thunders." at which the voice becomes that of an angry man One fragment which was read in a dead tone was accompanied by a "perming wail which rose and fell," and in another fragment, read by a woman, there is a cry at the end of each line. Often, for 5, the vanual imagery aroused by a iragment is that of the speaker of the imes heard recried.

White lettering to poetry read aloud, S reported much less auditory inner speech than when reading allently. Often, however, he reported a pecuhar schoung of the reader's voice, word by word, an echo which he described as similar to heaven the same note struck at once on two different strings. Such an echoing occurred when S had difficulty in catching the meaning or where there was no translation of the words into concrete unagery. In two or three cases this echoing became overpowered toward the close of the reading by concrete anditory imaginy aroused by the words of the passage Thus, in one case, the maged sound of the roar of the ocean overpowered the scho. In several cases, throughout the reading, even the voice of the mader was so overpowered and an unmediate translation of the fragment into concrete auditory imagery occurred

Professor Dallenbach of Cornell University has reported a case which bears comparates with that of 3. While betering to conversations and lectures, as well as when reading, the young man in question was " under a constant surge of auditory images, which ware as vivid as hallneinations," and could only be described as a din. "The perpetual sounds of words in my head," be writes, " produced headaches, which became more and more severe and frequent as the number of lectures and the length of the class-room assignments meressed "1

In the second variety of inner speech to be described the inner speech is again strikingly auditory. For this reader (D), however, the voice heard at usually her own and the motor quality is frequently pronounced. D, as S, often dramatises the selection but with this difference, she herself is the reader and makes the gestures that S sees the variations reader make. Petch and voice-inflection are important for D. A strong thythm effects a striking organic reaction; it may modify respiration and be felt beating in the hand. D. on occusion, finds at quite possible to enjoy poetry as shoer auditory-motor content with little question as to making.

D lays great emphasis upon onomatoposis, which plays a very important part in conveying the auditory quality intended. Thus, though the ringing auditory quality of the lines heard often imbrided a more concrete objective image, this word suggesting such auditory magery would echo, as it were,

³ " Two Pronounced Cases of Verbal Imagery," Amer. J. of Psychol. ul (2027), pp. 667-660.

throughout the entire line. The following example illustrates that. The fragment reads:—

" And the mystic wind went by, Muranums in melody."

In this case the word "murmur" echnes in consciousness to the end of the ine. The word itself as a deligate auditory site-image constitutes the accompanion to the reading. The same effect was noticed with such words as groun, mean, would handling institute, mean.

wand, langhing, rushing, mass.
While istreming to poetry read aboud, D notices little inner
speech except where the ochoos in her own voice pleasing
words, or please of which she did not exist the meaning, or
those for which the roador's voice did not give the correct
and the control of the control of the correct
pathy of the reador's voice in to become by the above authory
onability of the reador's voice.

A third type to be considered as that of F whose inner speech a purely vest-motor, with usually, very little consciousness even of its motor quality. Sometimes during salest reading actual lip-movement is evident. Thes occurs when the meaning of a passage is got at most evident for whose the working is particularly pleasant. In the lattic case F oriest vectorizes the extraction of the salest and the lattic case F oriest vectorizes the right of the salest and the salest and the works with a result of the works with a result of movement.

Although there is no auditory quality to her muse speech, for sometimes put the words not the months of characters described in the passage. This she does vursilly, abe known that a character is spaking by the movements of the kg although she hears no words, or the is aware that cheening any progress by noting wought by awaring of heigh handkers.

cheefs, etc.

In general, F gets intile meaning from bearing anything read about So little is auditory attorition developed that in order to understand also must read to bereith. Auditory shythm is, too, less appreciated than motor thythm. In lartening to poerly read abried, F shows considerable tendency to repeat in inner speech the words of the reader. She finds difficulty in determining whether this inner speech in disc but industry in determining the repetition. Apparently, F repeats by loses what the words read or whether this largement has meaning because of the voted read or whether this fingment has meaning because of the voted repetition. Apparently, F repeats by loses what the words read or whether this largement, the meaning these lines and the character of the country of the control of the voted repetition. Apparently, F repetition of the post of the voted reader that the strong is clear, stronger the probably motor mass speech a slowage present under those conditions, but at times us so arrhements us to except detection. When there is particular deficiently in getting the meaning, F sometimes reports visual vertal integery.

Visual verbal imagery, the fourth type of the must speed, not relatively slight importance except for occasional pontons. A pronounced case of it was found in A's ventions when laterang to potry read sland. Since A visualizes the words that she hears read, at about reading distance, there cours each problem adjustments of the eyes when the venual imagery of a concepte nome lies at a greater deplace. The letters are visualized in dark rount, a word or pringer at a time. The later's

promot on which the words appear. A is mable to describe the sesses that as do the letter by a space interval. Beautes such visual translation of the words heard, as through the were actually reading them, A repeated the words in lengesthetic thank speech. This double varial accompanisant was reported in allowed very trail. It because native perspection of when the meaning of a fragment. It because native perspection of when the meaning of a fragment in the perspective of the second production of the meaning of a fragment integery was inceed that was unsulfy the case. Sometimes words not prosecuted by the resider fashed out before the might's eye as if in explanation or empendation of a presage. This visual inner speech, although with bullycts in guestal a very uncommon form, at an everyday matther with A. Custau fragments week acted as giving charming visual-viral directive with a Contain transport week acted as giving charming visual-viral directive with a Contain transport of a visual-viral frames below of a symmethatic that shame." They phase numediately sympacise to A printed in visual form, and in characters of light.

It is interesting to speculate on the effect of the four varieties of the tuner speech upon literary composition. In the absence of controlled observations and reports from literary people, speculation is admittedly subject to much extro but tempting mone the less. One recalls the report cited by Binset in bis "Psychology of Ressouring":—

"'When I write a scene,' said Legouve to Scribe, 'I hear; you see; at each phrase which I write, the voice of the person who is speaking strikes my car. You who are the theatre itself, your actors walk, act before your eyes, I am the listener and you are the secondard.

and you are the spectator." Nothing could be more correct, said Scribe. 'Do you know where I am when I write a pace? In the middle of the parterne."

One might competure that the author for whom the auditory supert of the inner speech is relatively free might possess great flexibility in imitation of speech chythms and highly individualized inflections and abons. His dramatis presses might speak with varied accent and emphasis, after in a chalect that is personal, if not provincial. In postry, he would stress the melodic side; take delight in assenance, alliferation and committeepois, or the initiation by sound of that which he would describe. He would, also, be apt to like time and be able to use it in punning down his metrical achemes. In drama, he would put into the asside and the monologue material that a more visual person would include in the stage directions.

An author who is acoustic-motor maintains a distinct

connciousness of himself as speaker. Has imitation of this speech of others may be much less versatile than that of the first writer, but his inner voice may possess a spontaneity and energy which give it an certorical coloration, as it week, the speaker, beardy meaks immest by the written word, his are the personal rhythms, the rounded person, he is more spit turn into exister and preacher. It is said that the actors, in certain of Henry James' plays, "were embarrassed by their ines," all the character tailed in the name or of their orisator. His own speech became "so investerately characteristic that his questions to a railway derk about a tasket or to a fish-monger short a lobster, might easily be recognized as coined in the same munt as his addresses to the Academic Committee of the Royal Society of Literature."

The possessor of a purely vocal inner speech, without the shadow of an accompanying sound, may also realize to a very high degree the sense of agency, of control over his inner so-silent voice. But his phrasing often reveals an insensitiveness to auditory combinations that sets a limit to his stylistic achievements, although he may develop a flowing style of considerable possibilities in the way of rhythm.

The visual-verbal variety of omer speech, is, as we have seen, of negligible importance in reading or listening except as it affords a method of emphasizing words, especially unfamiliar or oddly used words. During composition, however, the visualized word may appear not only for the pressic purpose of guiding spelling but also for other less system purposes. There are writers, for example, who find composition by dictation almost impossible. The process of thought seems to be distinctly vitalized by the sight of words and sentences as they make their appearance on the paper. That, to some extent, visible words cause an aethetic reaction is shown in those cases where nocts or prose writers depend for their cues in composition upon the appearance of a written sentence or stanza. Vector Hugo has been cited as greatly dependent upon the visual-verbal form, as keenly sensitive to the " physiognomy " of written words. And Gentier says: " For

² Theodorn Bonanquet: The Hogerth Energy: Henry James et Work, p. az.

my part, I think that, above all, the phrase demands ocular rhythm,"

Modern pormalism has developed ocular rhythms into the insert of headhning. Says a robent commentator on spelling reform: "If we heard the world—but most people do not hear the newspaper. We gine our eyes on a swaying paper, glimpse merely the moustache and eyes of the word!" In advertising, also, we find an appeal rather directly to visual in contrast to auditory residing. In some instances were liber represents largely an appeal to confar rhythm, hence its facile adoption by advertising, although there probably operates also, to some degree, the mental set induced by shortened lines and the belief that one is reading pockry.

Style responds in a subtle way to various mental habits The methods utilized in composition are significant in this connection; even so sample a choice as the use in composition of pencil, pen, typewriter, or dictaphone may determine stylistic details. The enlargement of the span of the inner speech by the utilization in composition of the melodies and thythms of oral speech or highly automatized colloquial habits is in line with the attempt to convey meaning with the least possible demand upon effort of attention. Through social habits, words have become so thoroughly established un certain associative connections that if written composition adopts the style of oral speech, a glance of the eye suffices to convey meaning and to induce apperception of the content That the mind is active even in the regulation of ocular movements is shown by the fact that the eye moves by big tumps in taking in nouns, verbs, and adjectives familiar to the reader's associative habits but it must fixate more hesitantly in reading prepositions and other connectives. A style weighted with many of these latter parts of speech will be slowly read in comparison with one that makes sparing use of relational words. A written style modelled closely after oral style will require as little effort to understand as your neighbour's gossip about household affairs.

An extensive utilization of oral speech rhythms and habits probably results from the custom of dictating one's compositions. The informal style of such compositions may differ in many details from the closely packed style of laboured

composition. But it may have its limitations: its very transparency may not be an unmythgated variue since the meaning conveyed may slip off consciousness as unobtrustively as the cosmo to which we likened it. The speed with which a composition may be comprehended can not be cated as evidence of all-inclusive ment. It by no means follows that all the effort of attention pathdrawn from the form of an article will be given to its content. Content and form are too intimately associated for that. In art, especially, form and content become one and in prose and postry the introduce interweaving of word and thought may be as essential to the effect of the whole as is the combination of rhythm and tone in music. Limpidity of style may be quite distinct from conversational case. One can imagine a most profitable utilization of a dictaphone-or several of them in the composition of a speech or a series of serials, but it is difficult to dissociate the poet from his quill. The pause in order to put a point on the latter may also result in a pointed phrase or come.

Does the typewriter affect interary style? A writer in the Beaton Transcript thmiks it does, that it produces a sort of staccate, disconnected, jerky style; a flebiless and bony style, without the eate and expressiveness of a handwritten product There is a tendency to use stereotyped expressions, which Iall in with one's concluse

To determine seamtifically how the method of composition affects style, we should have for study specures paragraphs on aimilar topics from the same writer (or a group of them) composed by dictation, on the typewriter, and by hand. We are told by William Lyon Pheips that Hardy's "Laodicean" which was probably the only one of his novels composed by dictation has certain pecularities in style Heary James' secretary, Thoodera Bosanquet, has given a most interesting account of this author's habits in dictation. The effects of it she considers easily recognizable in his style which became more and more his "free, involved, unanswered talk." He, himself, explained to her "that it accound to him to be much more effectively and unccassingly pulled out of me in specific than in writing." He quite possible that nothing more is

involved in method than the functioning of habits at different levels and that eventually all methods would lead to the same style. Possibly, however, there are desp-seated factors involved, such, for example, as fitting the speed of writing to the speed of thought, which varies from one individual to another. For highly practised twiists composition by machine goes on at a much faster rate than by hand. This high speed may conier a fatal fluency or it may make it possible for the author to catch ideas on the wing. There exist, moreover, some currous differences in the case with which differen individuals use various musculatures of expression. Some people talk readily but never do acquire a fluent and comfortable handwriting. Their dictated composition has a polish and sase in style not found in their laboriously written paragraphs. Others never acquire skill enough in using a typewriter to express themselves freely while "pounding it" Some object to composition on a typewriter because it interferes with the anditory side of unier speech, but others find the sound of it stimulating. One more citation from Miss Bosanoust. concernme Henry James' method of work -

"Indeed, at the time whim I began to work for him, he had reached a stage at which the cloke of a Remington machine acted as a positive spir. He found it more difficult to compose to the muse of any oblic ranke. During a fortunglet when the Remagyton was out of order he dictated to as oblive typewhere with evolvent disconfort and he found at sinces impossibly disconcerting to speak to nonething that made no responsive sound at \$10."

Les. au p 7.

CHAPTER VIII

AUDIBLE THOUGHT

Most of us whasper our asides quite softly to ounselves. Only occasionally when we have reason to believe that we are wholly removed from polite attention—or with we were—do we include in autholic thought and talk about to ourselves at this moment I recall only one acquaintinior who somewhat persistently but wholly unconsciously voices audibly her parentiatical remarks on life and him friends, always to the surprise and constemation of both her relatives and himself. And this in spite of the fact—or because of it—that she is saying sloud just what they are thinking silently. Thought cohose are strangely disconcerture.

The more speech, as we have seen from the preceding chapter, is the main instrument of reflection and of understanding but it plays its part largely off stage, content to be official prompter in life's dramas. Because the more speech is silent speech the degree to which it can be employed in art, particularly in the novel and on the stage, is a problem of some interest.

some interest. The moval, of course, makes froe use of reflection and meditation but it only rarely seeks to copy in any realistic way the curious indirections and rambling inconsequences of the inner speech. Meditation is retouched, clothed in literary form. Only in the new art, such as Joyce's "Ulysses," is an attempt made actually to nitino the form as well as the substance of inner speech. There is undoubtedly a field here that will repay exploitation although the old question as to the degree to which art can become photographic and still remain art will arise.

The extent to which the inner speech may be used on the stage is another problem, one which has in the past been debated in terms of the employment by drama of the aside and the soliloquy. Some interesting differences between dramatists are apparent here although in making comparisons the period differences relative to the type of stage and of stage-settings should not be overlooked.

I owe to Mrs G. Bruce Franklin, Dean of Women, Boston University, the following interesting comparison of Shakespeare and Theen :---

"As a matter of technique," she writes, "These decided to get rid of ander and sohloquies because they interfered with his avowed purpose of never retroducing anything upon the stage that could not actually happen within that small area Therefore, most of his scenes are office, parlour or porch scenes But solitous and used material will always croop into any play and if must be taken cure of An author may think be throws it away when he only disguises it or serves it up in another form. These did not throw away this material, he used it in his stage directions

"Shakespeare gives us an aside of six or subt lines, or a soldonsy of twenty lines if necessary, to let us know the inmost thoughts and the deepost emotions of a character. These will not permut this but in a very abstract and mathematical way. he catalogues emotions in chronological order and tells he characters to assume or 'register' them, for example to act playfully, spitcially, scornfully, exaltingly, with quiet intensity,

with wild intensity, in spellbound triumph, etc.
"Shakespeare in 'Macbeth' uses ten assion, nine soliloquies and may stage currections. Ibsen in the 'Master Buildar' uses no andes, no solitoques, but 637 stage directions. Shakespeare's stage directions are all Entrances and Earts but believe which are more specific, such as, 'Reading a letter,' Looking at his bands,' and the like All his directions, general and specific, are motor in content, none of them psychological or emotional. In the 'Mester Builder' some forty per cent (257) of the stage directions are detailed, motor in content, while some sixty per cent (380) are psychological libera's directions are never 'Enter' and 'Exit' like Shakespeare's, but are detailed, as 'Strolled across room to right, turns and panses at door,' etc. But what does Shakespeare care about his characters after they have spoken the words set down for them 1. They may roll or tumble off the stage m any direction. He gives them the speech, abounding in all kinds of imagery, and gives them the task of working out their own feelings and getting the interpretation across the footlights

"Theen does not give his characters enough words to develop their feelings so in his stage directions he talls them how to feel or rather what feelings to assume. Many times we wonder why certain emotions are written down to accompany certain words. In the end, the audience is left to conjecture why the characters said this or that and why they did thus and so Seeing a Shahespeare play involves no conjecturing libera delights in portraying mental conflicts and psychological com-plexities. He is added in this to a great degree by his stage directions, as-- with firm assurance, with an incredulous

amile, a gluomy smile, a snort of contempt. In order to interpret Ibsen these directions are of great value. However, I always feel after reading an Ibsen play that I should rotus to a dressing-room and wash off my make-up."

The difference pointed out above between Shahespears and lises in their use of the aside and the sollingny might be elaborated in many ways. For example, a Shakespearsan character who begues by addressing a speech to another may before closing change to a mucologue, a aber wondutation of the inner sweech—a departure foreur to Disem

It might be conjectured that I bean's detailed stage directions as, for example,

"Oswald Alving in a light overcost, hat m hand and snoking a large morrichaum enters through the door on the left, he stops in the doorway,"

suggest that the playwright is visualizing his characters and seeing each gesture and movement in unagunation. Each speaker is addressing some seen listener liber's directions that his characters rise, sat down again, pace across a room, remind one of the optical-kinesthetic image that was discussed in a precedure character.

No doubt a profitable study of the usages of playwrights other than the two selected might be made, but we shall tunt ourselves to recent departures in the new drame of introversion, where a very different use is made of the inner speech from that of the traditional saids or solidony. It is used, in fact, as an expose of the trivial modeling baffled continuation of the inner self-released from all repression. It is eavestropping, overhearing a character think, the nude in suddory art.

Alice Gerstenberg in her single-act play, "Overtones " is credited with introducing the new device. Here each character is accompanied by another self that speaks what is in the mind. Einter Rice has used the device in "The Adding Machine"

Zero and Dasy are scatted opposite one another at an office deak. Dasy as reading alread figures from a pile of stips: Zero enters them upon a sheet. The monotone of the recitative "Three ninety-eight, Forty-two cents, Two dollars, a dollar fifty," and so on, and so on, us broken by the truming comments of the inner speech become another to the uniform.

Zero thinks alond to himself, "Your face is gettin' yeller, why don't you put some paint on it?" Daisy communes with herself. "If I asked for carbolic, they might get on to me."

His covert thoughts pursue his wife and a recent unsavoury spaced in the spartment house where he lives. Here centre around possibilities of self-destruction, or a marriage with Zero if he hadn't a wife. Occasionally the thoughts of the two of them collide with their overt verbal automatisms. A slap occurs in the figures they are recording. A correction is impatiently made. Then their minds return to their revenes, to the secret self-pitying day-dreams of a man and a woman madennate to life.

Eugene O'Neull in his latest play "Strange Interlide" in the scharacters two sets of speeches—one in the natural voice, the other in a different voice to reveal his thoughts to this audience. During the speeches which represent the immer wore the other characters on the stage become motionless and entranced as though removed from the seem This two-speech or double-decker device of O'Neull's parallels in an anticity way the use of masks to play up the differences between the outer and the inner self in his "The Great God Brown."

George Jean Nathan writes, commenting on 'Strange Interlude':--

"The solitoque, in general, was and is samply a character's statement to himself of the reasons for an act just accomplished or presently planned, in the O'Neill play we have meditation and act as things often completely dissociated from each other "

Nathan's description was written prior to the production of "Stronge Interhals," but that the revolutionary form of actually effective we may judge from such journalistic comments as the following. After the strangeness and absurdity of the movelty wears off "at dawns upon you that these characters thus made completely revealing, are much more interesting as human studies than the conventional single-munded, flat-voiced individuals who speak much, but reveal lattle."

In any case the new clinical method of character presenta-

tion is fertifizing invantion, a topic which we shall elaborate upon in discussing the drama of introversion. How far such a procedure range be carried and artistic objectivity maintained must be decided by actual trual. In the measurable the psychologist in collecting data for scientific purposes may also furnish realistic details to dramatist and novelest. The introspectionist realises that not half the story of the inner life has yet been revealed.

CHAPTER IX

THE WORD-IN-ITSELF 1

In the early investigations of the psychology of understanding, it was token for granted that the unit of meaning was the individual word. We realise now that we think in bigger terms. We think in sentences, or paragraphe, some of us even in monographe—but not in words. The breaking up of the sentence into words is an act of analysis of considerable subtlets.

Word-consciousness is a much more sophisticated, highly specialized consonenses than in the general speaking or reading or thinking consciousness. But it is the natural consciousness of the born hierary artist who in this respect may be sophisticated from the cradle. There may be a native interest in the word for itself above that is manifested in the carliest years so that the young post or stylet is charmed by hare words; he would play with them as with inted iewels

We must emphasize the statement that one word used by itself is a much richer experience than the same word used in a soutence. In "Word" use a detached consciousness has a tendency to blospon into all manner of images, feelings, impulses It is a focus of associations, often of excellenging richness. It is allocated associations, often of excellenging richness. It is allocated with meaning. The same word in a sentence is hald right in a given schimit of associations. It no longer possesses the youthful possibility of developing into a myrited wonders. It is solver and grown-up and bocome part of a system of somewhat refull relationship.

Style swings between vivid word-consciousness and meaning σ sentence-consciousness. Scientific style demands such transparency of meaning that each word shall be unambiguously

¹ I have made free use in this chapter of material from my report on "Individual Differences in Reaction to the Word-in-Itself," Weakborn Commencentrice Vol. Amer. J. of Psychol., 56, 1927 By promission of

limited by every other. Oral or written speech shall be only the window through which one catches a gimipse into the scenery of another mind. As we have had occasion to remark before, present-day efficiency demands in the workaday world a style so simple that he who runs may read. There is no time to wait for the meaning to be inclusively by concrete imagery; the inner speech must be reduced to the barest flicker. Literary style is, in contrast, often enamoured of ambiguity, of double and triple implication of meaning. Worth may achieve separate values. The single word or the phrase of a refrain may sparkle as a pewel in relief against the beaton gold of the setting.

In the long history of mental development the Word-inleach has played manuful parts. The Word has summoned spirits from the shadows or hald demons m awe. The Word has been a sacred symbol graven upon the walls of the temple or worn in gold upon the forthead of the initiate. The secret wurd of Magic has opened treasures, destroyed kingdoms, made of man a god. The long tale of incantation by means of the Word is not ours to tell; except m so far as the poet and the maker of stores learns too the ancient trick of incantation whereby he liberates impresoned sports and through a delicate hocus-poons opens up charmed realms of fantary.

The chetoricians have an apt word for describing the suggestive power of words—councitation they call it, designating thereby the power of words to convey much more than their meaning, their power to create atmospheres, to evoke emotion and imagery and to stimulate activity. Poster diction is rich in overtones, saturated with fragrance, being differentiated in this way from the more commonplace prose diction in which the thought breaks akeleton-like through the thin garment.

It is an enlightening experience to gather records, as I have, of the varieties of word-experiences. Try out a hist of one hundred words on a dozen different subjects and note the reactions you get. What do the different reactions indicate? Much 7 Nothins?

You will find no doubt the sictionary mended individual. The words you show him call up, in turn, definitions of their meanings or, perhaps, merely a synonym or autonym or a phrasal completion of the word. You know him for his precision and fluency of language, his discrimination in choice of words. He is, perhaps, of a legal turn of mind, given to making meanings of things, thinking in the abstract, reasoning in words say with counters, swiftly, shiftlelly, accurately.

You will find the concrete-musical person for whom words are enterly con of the realm to be exchanged as rapidly as possible into concrete image. "Fortunds" does not call up the synonymous term "courage" but the picture of a mother singing quietly to her dying child. Words are shadows of things.

All the various qualities of reality may be mirrored in the mage thus, one subject reports for "drowsy". Attributed of a summer attempore on the tack power Lary strungen sounds of been humaning (auditory mage) and a goiden have over all ""Rees". "A partie attribute, in the dark, pink, wer against inco." And for "fatter: "Brits, felt them beather wangs, attribute of uncanners.

A most interesting reaction to the word occurs when connciousness is suspended as it were, possed like a rocket that is just on the point of breaking into mynad sparks. The word has richness of feeling, a interest, and it will break into a score of images. This feeling of latent imagery, of incupient associations, is often reported. One laboratory subject was able to pick out the words that, she said, seemed about to release rich imagery. Sum of the mood-words, she reports, "would develop into lovely visual glimpses if I should larger in them."

There are others for whom wards are things-in-thomselves. They delight in the mere sight or sound or touch of them Fantastic as the remark may appear to the spelling-reformer, letters are not morely phonetic values. As united stamult, in spite of their diaminutiveness, they have varying value for attention, for recognition. The silent letter in a word may be just that letter which gives attention-value to the word, makes it recognisable without the agency of the little imaginificant sister-gounds.

Word-form, the character of the word as a whole, is determined by the combination of letters that compose it. Three factors enter into word-form, namely, letter-breadth, letterheight, and the geometrical form of inters The letters may be classified as those composed of vertical strokes, of ordings strokes, or of a combination of these strokes. Thus "m" and "t" are vertical letters; "a" and "o" curved, of oblique strokes, or of the oblique letters; "b" and "o" curved or these various kind of letters into words determines, in part, word-forms, which give characteristic affective reactions. Words composed mainly of vertical strokes have a "athl" appearance, as witness the word "fift; words composed of curved letters are more pleasing to the eye, more rounded and complete in appearance, witness the self-safficiency of the word "psychology." Long letters give individuality to the word-"psychology." Long letters give individuality to the word-"psychology." I long letters give individuality to the word-"psychology." I long letters give individuality to the word-form. Thus "hypocrite" is a more aggressive word than "mirro."

This digmestion is introduced that the reports of my subjects as to word-physiognomy may not seem utterly outlandish Certain of them were greatly preoccupied with word-physiognomy. There are words that look ragged or round, or pointed or stout.

Of the word "reed" upe observer says, "This word has teeth—a smaling word." Of "ageast," "A laughing word, asteres on it, ragged, very durerpitable but swillly need! Other examples of sensitiveness to word-form are given by the subject what reports "Key" is an aggressive word, insistent, "Yale" is prosperies, "choral" is round, the "o" is prominent, "like" is compact, inadmensive."

Galton in his "inquaries into Human Faculty" has given some interesting reports of aimlar experiences, and Toulouse writes of Zola that he was very conscious of the physicignomy of written words which were for him actual personalities, having their own midvodul look.

Some interesting laboratory experiments on the degree to which proper means suggest certain patterns of temperament or certain physiognomies have been carried out at Cornell University. The reaction of one psychologist to the name 'Gorb' may be given. 'I had a feeling for him as quickly as I heard the word. Falt 'Grib' myself, obstimate, pertainent, miscular, common sense, as if I would fight for anything I thought mine; would be surprised if anytone should rebel

P. 157, Edition 1683.

against my authority. On the whole it was found that the response to unknown proper stames is extremely warshing the enotional type and also associational and attitudinal factors cause great variation in different persons. Professor Caparated in discussing the representation of unknown persons has attributed much of the affective tone to the physiognomy of the proper same. "Other things equal, passes consisting of heavy or repeated spillables call forth mages of fat, heavy-set, bloated, or slightly ridiculous individuals, a short and sonorous name, on the other hand, suggests stender and active persons, etc. Monseur Patapoulard would evidently be of a type quite different from that of Monsieur File. ."

An under sensitiveness to word-physiognomy is probably evidence of a certain amount of preoccupation with the visual word-complet; even though the visualized word is only infrequently reported as entering into inner speech. Certain subtle visual analogies between individual latters and things may set off these reactions, although the form of the word as a whole probably has some effect. The word-form is of greatest aethatic significance in poetry where a rime-word or phrasal retrain is concerned. Certainly the "Nevermore" of Poe's "Raven "has a visual as a vocal form. "More" is one of the most composed words at our language.

That words should be reacted to as sounds-in-thousasses, sheer music, occasions no surprise. We love to dwell on the long sound of "o," particularly if combuned with the music of the liquids "1" or "z" or "n." The word "melody "may charm us by its sound, just as the word "nanophuny" sets our ears on edge.

One theory of language formation is the so-called dingdeng theory, that words are comed in unitation of the sound of nature. The theory is by no means all-inclusive in explanation of the origin of language. Every language seems, however, to include certain onematopoetic words. In Raglish, such words as "busy," "lines," "murman," narry their meaning in their sound. Our connotation experiment showed a heightened

¹ Akspech, "Psychological Response to Unknown Proper Names," Amer J Psychol, ab (1917), p. 418.
² Quoted by Englah, "Psychological Response to Unknown Proper Names," Amer. J. Psychol., vp. (1927), p. 432.

auditory reaction for words such as these, with a keener sensitiveness to their effectiveness on the part of certam observers than on the part of others.

Literary onomatoposis carries us, however, far beyond the microring of a natural sound in a word; at is preoccupied with various attempts to imitate emotional and sensuous experience in a collocation of sounds, a sort of programmemusic, as it were. To this end it makes use of rhythm and it makes use of rime to pin down a sound-scheme. The santance is made to drag heavily or to mount on wings. It employs alliteration, that a consonant sound may dominate a verse: and if that initial sound have a sensuously enomatomeetic effect, so much the better Witness Shelley's incomparable hne. "Sweet as a singing rain of silver dew." It makes use of assonance that the vowel sound may be made to colour the consonantal setting. Onomatopera may be definitely emotional in effect. It may seek to mirror the emotional tone by choice of the properly pitched letters. One cannot pitch one's voice in saying "sob" to the height that it takes naturally in articulating "acream". Nor can the contralto word "throh " be exchanged for the soprano " sing "!

Not all onomatopoeis is auditory. In describing preoccupation with word-form we approached visual commatopoets, in which a word not meraly looks its meaning; it actually looks the concrete visual image of that for which it stands. Thus the word "langh" appears to grin; the word "light" dazzles, and the word "bower "looks round; but undoubtedly it is word-form or physiognomy, the effect of one-letter difference, and not visual onomatopoets, that gives such a characteristically different look to "winks" and "wins".

Other forms of coomatopuia there are. Words may be made to tragle on the lips and give a gustatory effect as in that extraordinary line of Keats —

"And lucant syrops tract with connamon."

There is also vocal onormatoposia exemplified by the word "gruff" and by Poe's lines :—

Always, after reading these words, I feel a dull ache in my throat, a dark green roughening, extraordinarily persistent

Fantastic to some of us comes the report that words may have touch values. A friend of mine of intigate precompation with form, shown by a love of geometry and fine workmanship in metal and jewels, once surprised me with descriptions of the tartile and motor values of the word-in-itself. Obviously some of these reactions were reminiscent of the concrete experience with which the word was associated

"Burn" for northere, a said to be a rough word, rough to the fugger. "eng" is a "off word, I want to lay my check against it." The word "jewell" is hard and cold. But other reachines are less saidy understood. Of "mummur" it is said, "You can peck up this word and strike it." Of "yesterday" this word you can hold. "Yellow has a publish look; it would draw me over the can it." Yellow has a publish look; it would draw me over the can it." Of "galden" she says, "I he coldsing of it." I'v long, fast, and pretain: I can find the coldsing of it."

One is reminded of a passage from Gantier :-

"For the post," he writes, "words have in themselves and apart from their meaning, a heavity and value of that own as gunts which have not yet been cut and mounted in necklaters, heachels, rings. The connecteur who looks at them and fingers them in the little subject where they are kept in receive in charmed just as the goldmenth who contemplates a jewel which spiritle when they are rubbed, juke phespherus, and it is no lught that spiritle when they are rubbed, juke phespherus.

In our experiment we found, of course, many cases where the counctative value of the word was emotional. Words have a very mage of mood-incantation, as Kests knew when he same:—

"Forton! the very word at him a bell To tall me back from thee to my sok self!"

Certain words would seem to have an abmost universal power of calling up emotions, creating moods. These words are called poetic words, such as "drowny," "dusk," "cypress," "jonquil," "woodland." Delarious descriptions of their reactions to them I find in my reports. Thus .—

[&]quot;Shadow" is said to give a "tiptoe feeling", "dusk," "Self on the edge of everything". Another subject reports of "dusk," "Soft greys and greens and violets melting into one another Call of a whip-poor-will."

Of "cypress" it is reported, "Artenes is tree-mood; versal image of a cypress dark, tall, suchted, feeling of ionshapes and of shadows; word poist remote, tally, such a such a such as the such as th

Experimenters on conditioned responses have described to the process by which words become substitute stimuli in calling out attitudes and emotions. Their interest has centred mainty in the genetic problem of the minn's acquisition of language, they have not yet concernd themselves with the sathetic reaction. It is not difficult to see how such words as "father," "mother." "flag," become symbols for empirical stimulinos and arouse responses which because of community of experience are thoroughly comparable. It is, however, another matter determining how the disclate connotations of the poet become established in social consciousness. The fact that blingual children who do not use their mother-tongue in their school work suffer from certain confusions and niabilities in handling words suggests some interesting problems in the censis of literary suppressiveness.

In part, no doubt, the emotional value of words must be due to the arqueal through conditioning of the emotion or mood that the thing named would arouse in itself and we react to such words as "twilight," "dawn," "planatom" as we would react to an experience of twilight or of dawn or of the supernatural. Why certain experiences are in themselves poetic is a question that must be reserved for later discussion.

Some subjects report an interesting distinction with respect to the reference given the smotional restriction. The feeling may be projected into the word itself and the reaction become a constant one with literary significance; or the emotional reaction may remain subjective and the reaction as more or less personal one. Thus "melancholy," "simpet," "hiss," are said to be emotional words, but "mystin," "turrets," "jasmine," "mocturie" are atmosphere words. In many cases words get then atmospheric values from literary association. Certaint words call up as by magic the whole atmosphere of the Arthuran legends; others tingle with the rode life of Saxon days; others are shadowed by the wistful mysticism of Celtic folk-lore.

"Nightingale," one of my subjects tells me, is a comantic word. "I see myest standing in an old tower, looking out of the window upon a mounit night."

An interesting form of compation was reported by one of my highly sensitive subjects. For her the feeling of a time-setting contributed to the atmosphere of the word. There were words said to be "early in the morning" words, much words for example as "woodland" and "vagabond" "Murnur and "wind" and "roses" were "late in the day "wards. "Kitten" was a "nooutims" word; "melody" a night-word.

Word-connotation often takes the form of a colour thought. of or actually imaged. Many individuals make extensive use of colour as a symbol, due possibly to emotional conditioning We are not then surprised to find that words may have colour-haloes, rolour-atmospheres so to speak. In some cases a colour association originating in obvious fashion is reported: in others, the response is more subtle. The word may arouse maraly a colour feeling, or the word may actually appear coloured on the paper. Thus "vesterday" appears for one reader coloured yellow, possibly because of the mittal "Y"; " realous" seems written in ugly green, no doubt because of a common emotional association. But why should "rhythm " be a pank word or "heroic" a brown one? Why should "drowsy" be rose-colour; "peace," pmk; "nocturns" and "murmur" green? "Mystic" is imaged by this same reader as "all colours of hanging veils; with the feeling of pulling these veils aside."

To summarize this very informal report on word-reactions. There are readers who react to the detached word in terms of its precise demotation; they respond with a definition of the word or with a symonymous expression or add other words that further limit its meaning. Others respond with a definite image of the thing named or with a complex feeling of rich content, or neutpent imageny. Some readers show a tendency to treat the word as a thing-m-shell, quite apart from its meaning. They react to a word as to a visual form, a time analysis of limes that may release attitudes or beelings as would larger patterns; or the words are felt to be musted tones, avecalize to the est some chiming in delicate osciences.

Other words are felt to possess emotional or mood-values rather than uttelligible meanings. The distinction between a subjective reaction and a literary one is marked by the distinction made by my subjects between emotional words and atmosphare words. One subject reports: "Emotional words give Ms a mood or feeling. In atmosphere words this feeting belongs to the words themselves."

Readers who are familiar with Bullough's report of the type reactions to colour and Myers' to tones and music will be interested in finding those distinctions mirrored so clearly in the reactions to words.

Bullough designated his types as follows: (r) the objective; (a) the physiological. (3) the associative. (4) the character! Myers' includes containe experience with Bullough? "obysological" aspect and uses "intrasulpetive" as the inclusive term. He, also, extends the "objective" aspect to include all pragmatic references."

The objective reaction to colour consists in a preoccupation with such aspects of colour as its purity or impurity of tone . its saturation, its luminosity, an aspect which may be described in terms of the stimulus. One with such an objective attitude appermost finds it somewhat absurd to speak of a single colour as mediating or determining preference, much less emotion: he is somewhat disdainful of colour-therapeutics The physiological reaction is a subjective one, a preoccupation with the bodily or physiological effects of colour Colours are said to be warm or cold; heavy or light; spothing or depressing. Very strong colour likes and dashkes are reported. by such subjects. For the associative type, colour gets its emotional and preferential values from association with the things of the outer world. "Blue" is beautiful as the skycolour: "crimson" is reminiscent of blood and may for that reason be distasteful. Such reasents refer to colours in terms of the objects so coloured; thus, they speak of leaf-brown, corn-colour, emerald-hues. The character or arathetic type of reaction is a further development of the physiological and the

¹ "The 'Perceptive Problem' in the Eathetic Apparention of Single Colours," Brit J Psychol, 2 (1992), pp. 405-493.
¹ "Individual Differences in Lattering to Mane;" Brit J Psychol, 13 (1992), pp. 35-71.

associative. It consists in reading the subjective reaction back into the colour itself; it objectifies the subjective aspect, so to speak. I am no longer excited by the colour, rather it is itself exciting or soothing. This sethetic attitude, this empathic projecting of feeling content into an object, so one with which we are familiar from other reports on psychological exthetion.

These type-reactions to colour have been cited in detail because responses correspondent to them may be found in our experiment on the individual reaction to words. The dictionary-minded person is obviously objective in typic interested in intellectual meanings that have a common social currency. The associative and physiological types would seem to be represented by observers who concentrate on word-physiognomy, colour-associations, tactile values, auditory enomatopods. The mood-reaction to a word-stimulus in certainly determined in part by the association of the verbel sign with a given situation. From the associational reaction to the asthetic one; from the subjective mood-word to the objective atmosphere word, is but a step. The transitional stacks are delicately abaded.

Instead of questioning the various possible ways in which warried to agriculture the content of the property of the variously a given individual would react to words of a characteristic difference, to the eight parts of speech for characteristic difference to the eight parts of speech for characteristic differences has experience, for instance, differentiates the noun-consciousness from the verb-consciousness or the adjective set of inlind from the adverb? A most intraesting report of such differences has been given us by Riemor Rowland. "The characteristic feeling of nonuness," she tells us, "is of passive surveyance of means without implication of end, or ourselves or anyone as agent, although the functional possibility of the object or idea in question is one of the associations (and a necessary one) that goes to make up the characteristic stat of mud."

The verb-consciousness is characterized by motor impulses, by a tendency to respond in action

Most intimate and personal of all as the adjective-conscious-

⁴ "The Psychological Experiences Connected with the different Parts of Speech," Psychol. Rev. Monog., 8, 1907

ness. It is coloured by immediate seasons experience; it is often emotionally toned. "It seems to spread over the whole of me," one subject reports.

The adverb is a second-hand experience, derived from the adjective but much more detached, "far-away." It "has lost the vigorous immediate sense quality of the adjective." To the word "sweet" you react with the actual senseatonal content. "Sweetly" induces a more passive experience, a reference beyond the self. The implication is of something not onceed:

A preposition-consciousness is peculiarly hard to describe; the various prepositions are merely unlocalized tensions of various kinds; "a dumb pointing beyond of attachment to something else."

It is interesting to conjecture what results might follow from an application of this interesting analysis to a study of style. We have undoubtedly authors of a predominatingly adjectival style and others who stress the verb-form. Would we find characteristic differences in mantal content paralleling such differences in the unployment of parts of speech? Obviously a style surcharged with prepositions makes great demands upon the attention of the reader. Does it point to close thinking upon the writer's part also?

In further explositation of delicate literary attitudes let us ask the symmeone of the letter-in-theeft, not, of course, as a carrier of phonetic values but as a focus of ascondations. The attempt to state councitations for different letters of the alphabet is a very old one. We may even cite Plato in the "Cratylos" where he characterized the intertocal value of different classes of consonants. The dentals, for example, are said to imitate repose, the liquids to give a gliffing effect to style.

In large measure, of course, such characterization of letters must depend upon a delicate perception of letter values as dependent upon the case, explosiveness or rigidity of the vocal movements involved in the saying of them. Style might well be coloured by vocal kinestiness, in fact, it must be so coloured.

Rossigneux, writing in the "Journal de Psychologie," 1

L Epop var l'audition colorie el ce veleur emblique, 1, 1905

has given us a suggestive account of the literary value of consonants and vowels, an account based appearently upon study of literary effects rather than upon emerimental analysis. Adopting the theory of emotional equivalents, he states the commutative value of vowels in terms of colours: O evokes red; A, white; U, black; E, blue or green. The vowels evoke colours; the consonants convey spatial morressions; they furnish form and movement. The dentals (D, T, Z) give a statuesque quality, immovability. The labials (B. P. V. F) contrast with the dentals, they are associated with impressions of vagueness, of distance, of movement. Gutturals express force, violence, ardour, rapidity. Liquid M expresses grandeur, majesty, immobility. R has the effect of the gutturals; L approaches the labials and expresses vagueness, gentleness. Z and S svoke vagueness, mystery. The colour effect of the vowels may be accentuated by proper combination with consonants. Thus U and I give the feeling of night, silence, obscurity when accompanied by N, or L.

If one may risk the substitution of examples in English poetry for those given in the French, it is possible to cits lines from Poe in which definite emotive qualities would seem to be conveyed by the prevalence of certain letters. Take the following lines from "The Raym":—

Deep mto that Darkness premng, kong I stood there, wonDering, fearing Doubling, Dreams no mortal ever Dared to Dream before."

How much of the statuesque quality, the rooted-feeling of those loses, is due to the repetition of the dentals. D particularly, (printed in capitals to sevent the frequency of its occurrence)?

(printed in capitals to second the frequency of its occurrence)?

Another example to indicate the use of F and R to give movement:—

"Open heRe I Finng the shutteR, when with many a First and FintteR in the Re stopped a stately Ravon of the saintly days of yeRs."

In Poe's "The Bells," one has, apparently, vowel-coloration; I is used for the paie silver thicking bells: O for the golden mellow bells.—A for the dark brazen bells—a coloration which does not follow the scheme proposed by Resagnets.

A similar discrepancy in usage among poets occurs so frequently as to make any constancy of reaction exceedingly doubtful

In fact, one must recognize the undequacy of a method which bases conclusions upon personal impressions. We may, therefore, turn at this point to a short review of an experiment by R C. Givier, in which effort has been made to determine, under experimental conditions, the connotative value of bore sounds. Only a tonal replace of Poe's lines of the nature of those that will be described shortly would enable us to tell how much of their specific toning is due to their meaning; how much to their rhythm, how much to the phonetic values employed.

In the experiment under consideration, of fivier made a most interesting attempt to get at the psycho-physiological effect of speech elements as mere tones apart from their setting in a meaningful scheme of sounds; and, to determine the motor and emotional value of the characteristic tonal patterns of a number of English poets. The statistical determination alone of the frequency of various speech elements in English poetry involved the phonetic measurement and tabulation of some 18,000 lines, with, as the experimenter tells us the summeration of some scan on some dis-

The psychomotor effect of different sound-combinations was determined by the extent of a tapping movement, recorded on a smoked drum, made while the subject of the experiment recited iambic lines constructed on very carefully predetermoed total patterns. Thus, ut one experiment, the psychomotor effect of the long vowels were studied, each of the four vowels appearing in a series of twenty-four experiments such a way that it was jound in sequence with a different consonant, and with this consonant formed the accented foot of some moseume combination, as, for example, laBA, a combination of letters repeated five times so as to form an samble line. Introspective reports accompanied the tapping and recting of the line. To quote from the report: long "O"

³ For an interesting experimental report, see R. S. Jones, "Effect of Letters and Spitalets an Pohlesty," J dyp. Psysiol., or (speat), pp. 1994-904, Also Rottiee, I. and Westbern, R. F. "The Affective Value of Articulate Scands," Awar J Psychol., 23 (1972), P379-254.
³ The Psycho-physichegoud Effect of the Elements of Speech in Bolances to Postry," Psy. Rev. Meson, 19 (1992), pp. 1-139.

was found to be "more of an object of the mathetic consciousness, and more associated with the wind and water sounds of nature" than "A," Long "I" was "considerably more intense and forceful" than A or O. "Its pitch seemed at cone higher, its utterance has smooth, and the mouth movement more conscious than that of the preceding vowels,... It was frequently remarked that this vowel had very little connection with feeling of personality, the labels consonants had very much more to do with one's self than did the other consonants, and all felt much more intimate than did any of the vowels." "E was the most intense of all the vowels, feelings of strain at once appearing, but it was also more easily controlled by the muscles of the vocal appractits than was i. Not so resonant as the O, but it had far more "colour"

One of the most interesting features of this study concerns the metathesizing of lines of English Poetry. From the author's tabulation of the frequency with which various sounds occur in a given post, a characteristic line, representative of this poet's tomal pattern, was constructed. The following, for example, as given as representative of Kests:—

"Ni riil sti vēšd rī nést R či šth rēšn."

In other series of experiments, total replicas of single lines from the chosen poets were studied and also ten-line patterns. It is evident from the introspections of this subjects that total effects are much more closely related to the meaning-content of certain lines or passages than is true for others. The metathesisting of Byron's "Roll on thou dark and deep blus ocean, roll," is cited by the author as a decided success. It read as follows—

" Shùn độic ow rộd thủ nark blüre ở làng đặp "

Of nine subjects, seven respond with some form of oceanimagery, sithough, of course, all wave masware of the original whose tonal pattern was thus reproduced.

In general, some very characteristic results for different poets were obtained. The graphs from the tapped records also showed individuality. For example, the Byron graphs were indicative of greater length of tapped stroke than the Keats; and the Tennyson than the Arnold.

The general conclusion is that the sounds of poetry, especially those of lyric poetry, are able of themselves to arouse "a mood congruous to that of the original poem, even when torn from their positions and their rhetorical anchorage." "Poetry is largely found." Forthermore, the lyric poets are found to employ liquid sounds to a high degree. The author writes "Name the lyric poets and you have named those not only whose lines transmografy (metathesize) best but also those who will produce in these tappings, as recorded in the graphs, the finer form quality of the curve of motor discharge."

The content of poetry, say the "symbolistes," is emotional subtlety, delicacy of sentiment. It is close kin to music: should, perhaps, be identified with it. It is a groping out from the world of daily reality into the shedows of the infinite and the remote. It conveys no information, may unleed convey no explicit meaning; rather, it seeks to mirror dualy as in moonly waters faint shadows from another would. It would stir the imagination of the reader, set vibrating delicate soul-fibres unthrilled in daily life. It would leave the shaken soul suspended in the creative youd. But it cannot accomplish such an arm by the use of the brutal paragraphs of ordinary prose, or the sharply turned verse of the poets of the precise. It must create a new manner of communication. Therefore, it creates the Word-in-Itself, tears it from its traditional meanings, its old habits of syntax, and uses it as evocative of moods or even as a purely musical sound. It scarches deliberately for strange words, new or archae, it violates the conventionalities of rhythm and of grammar, it seeks to break the bonds of everyday language that it may evoke imaginative realization. "The emotion which symbolism pursues," writes Eccles, "bears no constant relation to the objects represented or the mess expressed; rather it aims at the recovery of vanished moods by curious incantations, by the magical use of verbal atmosphere."

A forest is described, not as green but as blue. Only those flowers are poetic which are exotic, perfumed with the mysterious east or redolent of poisonous marshes, only those women inspiring whose beauty foreshadows disaster, hints at wavwardness.

Says one of the critics of symbolism: "Their thoughts, cloudy, fugitive, swiring take on the colour of the regular tenotion, just as the smoke that hange over the creter of a volcano reflects the red from the bottom of the abyes." There is no logic of idea; rather an apparent incoherence most abhovent to a mind enamoured of clarity But this incoherence is deliberately sought as a means of cruating obscurity, mystery, a sense of the profound. It is no evidence of the poet's failure that the same phrase arouses different images, different meanings in the mind of different readers provided that these varying images are emotional equivalents.

But why carry the doctrine to its extreme? Must meaning be altogether basished in order that one may deal with emotional values? We may, of course, reject the function of communication as provincial, and adopt if we choose a cosmic language of the soul, a secret language of the infinite. We may be so enamoured of the martiniate as to be dumb, isolated. Silence may be conceived to be the most poetic form of expression, a conclusion inherent in the doctrine of certain of the "symplotysts".

It may be that with the increase in rapidity of reading which comes with moreased dependence upon the sight of the whole sentence rather than upon the sound of the separate words, such "precents" poetry will not only cease to be written but also cease to be appreciated. Mystic poetry may become a lost art; music may usary its function, become the sole auditory art, the one expression of the outcry of life against too great scientific preoccupation, too fatiguing precisions of thought; the one embodiment of the vague desires, the costatic emotions of the human heart. But, poignant as it is, meak as limited in its expression, it cannot give us the delicate nuances of the wistful formances, the strange voyages of the spirit. There are those of us who would mourn the loss from the world of the lyric note of the Word-lower.

BOOK IV THE METHOD OF STYLE

CHAPTER X

THE METEOD OF STYLE

To gather records of the responses of readers to poetry and prose is only a matter of time and discovery of methods for carrying the analysis to the finest possible point and controlling the conditions under which observation is to be made. To determine what lies back of the reader's reaction in the mind of poet or fabricator of stories is quite another matter. If autobiographical material as to certain outstanding features in the process of composition is tantalizingly meager, still more inadequate are reports as to the details of the mental content that carry these processes. Poets do not present themselves at the laboratory as willing subjects of investigation parhoularly when in the three of composition. Mostly they look askence at "those nuterrackers of the soon," the analytic psychologists.

Later, we shall attempt to ferret out certain features of the creative process itself. At present we are concerned with the possibility of drawing conclusions as to the mental furnishing of the poet's mind from his readers' reactions.

This method of passing from the reader's mental content to that of the author he is reading is known as the Mathod of Style. It has borne the fire of heavy criticism. The early employment of the Mathod of Style was charmingly ingenious at a time when the newly aroused interest in the various forms of imagery and the turning of the attention of the authorizing to his treasury of mental visions and sounds led to all manuar of premature conclusions. In those surly investigations the proceduration with the notion of an Imagery Psychia-tic to a deares to discover this type as a part of every psychia-

logical analysis and in the case of a proce or postinal writer it seemed possible to infer his type from the images that were aroused in the reader by permail of a given production. Any reader who was interested in the question saw no deficulty in abducing the author's imagery from a tubulation of his own reactions while reading. Scepticism devaloped, however, when a comparison of the reactions of different readers showed that vary different conclusions would be drawn depending upon who did the reading. A poet that one reader might decide was vental in type would by another be called auditory and so on. Moreover, the conclusions drawn from tabulation of a given amount of material were almost sure to need corrections when compared with conclusions drawn from tabulation of a greater amount of material. Criticism of the Method of Sheir developed meritable.

This criticism crystallized two tendencies: (i) the tendency to reject the Method of Style as absolutely worthless, since, it was contended, the imagery atomsed by reading depends absolutely upon the reader's capacities and in no way mirrors the poet's mind. (a) the tendency to reject any hasty or all-considered application of the method but to maintain that it is possible to draw conclinations relative to poet or prose writer from a sufficiently comprehensive and comparative study of the imagery aroused in a large number of subjects of a knews type of imagery.

From a tabulation of the images of one reader of perhaps a hundred lines no conclusion may be deducible; from the tabulation of the images of dozens of readers of a several thousand lines valuable conclusions may be drawn. The amount of work that a truly adequate investigation would require is somewhat appalling.

The same remark may be made for a modification of the Method of Shite which we may call the statusheal word method, a method utilized in most comprehensive fashion by Professor Gross, wedsy known for his contributions to sethetic theory, In the application of Gross' method by himself and his popils.³

^{1 &}quot;Des optsichen Quahtaien in der Lynk Schillers," Zeik f Assik, 4, 1996, Die akustunden Phanmiens in der Lynk Schillers," Zeik f Assik, 5, 1910. "Psychologial-statistiche Unterwechtungen über die vensilen Sindesendriche in Saksepesure lynischen und epischen Dichtzungen, Zagladek Sindese, 33, 1911.

statistical tables were made by means of which one could determine how often in ropous words in Schiller or another given poet determined colours or sounds were used, all words being taken at their face value. Different periods in the life of the poet were compared on the basis of the percentages obtained; or different types of work were compared as the lyric, the epic, and the dramatic. Thus it was found that in Goethe's literary life the relation between the coloured and colouries light-words remained approximately x: 3.

Close comparison may be instituted between the optical and acoustic words in a given poet or the usage of one author may be compared with that of another. Thus Schiller's youthful lyrics are found, when compared with Goethe's, to show double the number of optical qualities. In both poets there occurs a gradual decrease in the use of "red" which is at first most frequent, and an increase in "green" In comparison with other poets Schiller shows a predominance of anditory terms so that one conjectures that Schiller belonged to the acoustic type. Acoustic terms in Schiller are twice as frequent as in Goethe . and seven times more frequent than m Shakespeare's Sunnets: Of particular interest to students of English poetry is a statistical study of sensory terms in Shakespeare's lyrsc and epic poetry. 200 Shakespearean sonnets yielded 64 optical qualities to 230 for 100 sonnets of Rossetti. With sufficient material one might characterize whole epochs

In this method the question arises as to the relation between a poet's literary material and his mental qualities. In tabulating a post's vocabulary we are being objects throught of, not mental states. Obviously, considerations other than sensory data determine the choice of words. The chosen literary form, stylistic considerations, expressive capacity of the poet and that of his times all determine his vocabulary. Helm Keller, devoid though she is of sight, is able to use sight-adjectives in a most subtle and descriptive way. So a mentally-hind poet might use current terms of virsual significance as mere therary material.

Stahlin,2 in criticism of the work of Groos and his school.

 $^{^{\}dagger}$ "Zar Psychologie and Sfaturtik der Metaphera," Arch fd Ger Psychol $_2$ 31 (1914), esp. section 2

urges that a given sensory word cannot be listed as inevitable swidence of sensory content. It may be used metaphorically, not literally; have emotional value rather than sensory significance; it may be mere verbal ornamentation. Continus analysis must accompany all psycho-statistical investigation.

We may, however, raise the question of relation of imagery to text from a slightly different standpoint, that of effecture literary suggestion. Whatever may lie back of the word in the mind of the writer, we can, at least, determine the success of the suggestion in arousing an image in the mind of the reader. In certain experiments of mine in which images from the reading of some four hundred lines were tabulated from the reports of a dozen readers, it was found that, if we except visual and kinesthetic imagery, the following order represents the success with which images of a given kind were aroused through direct suggestion : andstory, 46 8 per cent.; olfactury, tors per cent.; cutaneous, 35'5 per cent.; organic and pain. 30'7 per cent.; gustatury, 74'2 per cent. Literary workers may find it of interest to learn that there are certain forms of suggestion that are almost always successful. Certain auditory images are particularly easy to arouse. The sound of rain and of the burle-note; the sighang of the wand and the rush of wings; the mise of the surf; the tolling of a bell are imaged without difficulty.

The following bit from Keats is almost invariably successful in arousing auditory content —

"Where then own groons
They felt but heard not, for the solid roar
Of thenderous waterfalls and torrents hearse."

For arousal of olfactory images, vagus allusions were found to be less effective than were specific suggestions. Thus, if the older of the violet or hyacatch be suggested, it is more apt to be successful than the vague suggestion contained in the words "field smells known in infancy." Yet swinburne's phrase, "perfume of songs," was effective for six of twelve readers. The smell of the rain, of wet grass, and of damp earth, and the fragrance of flowers were reported very often. Sometimes the images of flower-odeum were reported as specific, such as the image of the fragrance of the burieth of the rose or of the poure. Castian odour images

were, however, describable only in vaguer terms, as "funeral flower" odour, "beavy flower" odour or faint sweet odoor. Such odour images recall the generic images so familiar to us in visual images.

Gustatory images were an infrequent form of reaction. The more definite the suggestion the more likely it was to succeed. Keats again furnishes us with an example of highly effective gustatory suggestion;—

"Also, when he would taste the spicy wreaths Of uncease, breath'd from sacred hells, Instead of sweets, his ample palate took Savour of personnes brass and motal and "

These lines also illustrate a device very frequently utilized by Keats, namely the repetition of a suggestion of a particular kind.

The mention of wind or rain is a very effective method for the arousal of entaneous imagery. The suggestions of warm rain, soft breezes, sodden ground, cold bare shoulders were highly successful. Organic reactions may also be easily induced through literary successfun as 190 Stallev's lans:—

" 'To scarce like sound, it tingled through the frame.
As hightness tunder."

In our discussion of effective literary suggestion we have thus far been consularing threet suggestion; images of various kinds may, however, be aroused through indirect suggestion or connotation. While auditory images would seem to excel in percentage of direct arousal; the entaneous excel in percentage of images aroused indirectly. Lines descriptive of either wind or rain are apt to call out tactile images though the wording does not directly suggest such images. Subjective dispositions of the reader are, of course, prepotent in the case of images indirectly aroused and yet in the case of certain lines the suggestion is implient. For example, we find offsectory images a common accompaniment to Schlev's line:

" A light of langhing flowers along the grass is opposed "

Let us now turn from the reader to the post and determine his success in grving each kind of suggestion, with a runinder, however, that we have only a limited amount of uniternal at our disposal. In my experiments I considered five poets only. Keats, Shelloy, Pos. Symburne, and Blake. Of these posts, Poe gives the highest number of suncessful auditory suggestions; Shelley, the highest number of successful cutaneous images; Poe, the greatest number of successful cutaneous images; Poe, the greatest number of successful organic suggestions, with Shelley but allghity infector. Literary critics have often commented on Shelley's preoccupation with odour and his frequent use of it as literary material and on Kents' penchant for cutaneous experience. The results of actual tests evidence the shifted use by these poets of their favoured material. Poe's successful use of auditory suggestion is not susprising to a reader of his works; one is, however, curious as to the characteristics of his style which gives him such a high power of arousal of imagery indirectly, particularly in the case of olfsetter and cutaneous imagery.

Another curious element of Poe's style is the fact that he induces in his reader an ophical-timesthetic reaction much more frequently than a posture or a movement reaction. That is, he accuses visual images of objects seen in movement as by those limes:—

" Hanners yellow, glorions, golden, On its roof did float and flow"

Moreover, Poe's optical-kinesthetic images are, relatively to the number of fragments (or the number of lines), more frequent than was the case for the other poeta. This preoccupation with visualized movement I have long thought a general characteristic of Poe's poetry. The results of experiment would seem to show that such an interpretation is not merely a matter of individual reaction

Swinburne and Kests give the greatest excess of felt kinesthesh over optical-kinesthetic mages. This, again, is a result that might have been anticipated since the "hydrame quality of Swinburne's poetry and the "statuesque" quality of Kests' have been matters of comment.

In number of visual images Pos, Shelley, and Keats excel. Swinburns and Blake—a statement which holds whether the proportion of images be reckoned for number of fragments or number of images. Relatively to the vividuess of the visual imagery which is aroused, Poe and Shelley even to excel

The question of plastic or ordered and difficent or emotional

imagination may be raised again in connectum with the poet's type of invention. On the basis of the present tests the only assection that may be sentured as that Poe with ins excess of visual images and particularly of optical-kinasthetic over fall-kinesthetic images, appears to be plastic in imagination, as in fact he has been described. His method of compention, if we may trust his own reports, was highly self-conscious, a fact of great interest in the present connection, and one to which we shall refer again.

CHAPTER XI

THE POETRY OF COLOUR

"Look now where Calour, the Soul's budgeroom, makes The House of Heaven splenched for the bride "

Navas perhaps in its long history has the philosophy of beauty found more splended phrasing than in George Mereduth's "Hymn to Colour". Nor is the mediatave heart rehortant to accept colour as fit symbol for the transcendent Beauty of the philosophers. Less fitted in at than music, less protocopied with the sche of the will-to-bye, more transfused than even the most lowley of curves with infinituted of measures.

Again to quote Meredith writing of Colour, the bridegroom, and of the Soul, the bride :--

"He gives her homehness in desert air, And severegaty in spanoosness, he leads Through widening chambers of surprise to where Throbs rapture near an end that are recodes, Because his touch is infinite and lends A woulder to all outh."

But, indeed, elsewhere than in the land of dawn one may ask down colour prepares a home for the waythraing Soul. And one discovers a yet more intimate beauty in colour when reviewing the slow process by which primitive man spelt out in elements and learned to recognize and treasure its manufold magnings.

A curious chapter in race psychology traces the awakening of the savage mind to the suggestions of colour and shows how colour symboliam is surcharged with all the intimate details of everyday life and everyday aneds. Red, the colour of flame and of the day's auspicious end and threatening dawn; the colour of ripening fruit and of the mainer's glowing check and starlet light; the colour of blood, symbol at once of the hast and the deem of battle; yellow, the colour of unlight and of garnered grains and precious neeths and any low the colour that their caught the attention of

prinsaval man and dominated his first crude seatheric riferts. Vermillion and other stains on his naked person testified to his awakened sense for colour. And, later, the royal robe was dyed scarlet and the wedding-robe was saffron in his. Different customs for different races. Yellow as the sacred colour of the Crimital races, green as the chosen has of the Normads of the Desart. But for the European races a steadiest evolution, with, at first, a strange ignoring, maked, since these are the colour-tones dominant in the summer world and in the shimmer of mysterious season.

In fact, so meagre in colour words is the otherwise rich language of the Greeks that excellent authorities have inferred a racial colour-blindness, a complete insensitiveness to certain spectral colours More convincing, however, is Havelock Ellis' speculation that the colour discrimination of the Greek and not his colour-vision was at fault and Ellis' most interesting contribution to the psychology of colour is his surmise of the cause of the sudden awakening to interest in the blue end of the spectrum about the time of the Christian era! By that time red had become well established as the colour of buttle and dominion, and vellow, once the colour of the bride, had become the symbol of illicit love whose priestesses burdered their robes with saffron and gilded their vellow hair. In revulsion from both, the Christian world turned its pleading eye skyward to find the lovely blue which thereafter became sacred to the Madonna, the queen of heaven.

Spengler, for whom colour, just as architecture or philosophy or mathematics, in conceived as a symbolic expression of a given psychic interest explains in a different fashon from Ellis the variant colour preoccupations of the classic and the succeeding culture. Of blue and green, the colours of sea, sky, shadows, remote mountains, he says that they are atmospheric and not substantial colours. They are cold, they disembody, evolving impressions of expanse and distance and boundlessness. For this reason they are lept out of Apollonian art, since infinite spaces meant complete nothingness for

[&]quot;The Psychology of Red", Pop Sr. Monthly, 57 (1900), pp 365-375 and 317-326, "The Psychology of Yellow," 68 (1905), pp 450-463.

classical faeling and "the me of blue and green with their powers of dissolving the near and creating the far, would have been a challenge to the absolution of the foreground". For the Faustian Soul, blue and green are "monotheistic colours," throse of a present that is related to a past and a future of destiny."

The poetry of colour, whose thrull is to a certain degree reminiscent of the long homing of the race on the earth, is, again, in certain measure dependent upon the response of our boddy frames to those vibrations of sense that the human hrain transpints into colour. That the physiological effects of colour stimulation upon the human organism are stricing and worthy cateful consideration is recognized to-day. Perhaps all that we can assert with confidence in that red and yellowexcite the organism and increase its musicular strength; Briefi and Dits poofth and colon the nerve-

Psychologists, Bullough, for example, whom we have previously quoted, have sought accurately to determine the feeling-value of different colour-tones. This feeling-value depends not only upon the physiological reactions to colour stimulation suggested above but also muon such associational factors as have been prominent in the development of racial colour-preferences and others that are suggestions in the development of the individual. It is readily seen how variations arise in the colour-preferences of individuals. Even so there remains a fairly constant emptional value for any given colour. Red is exciting and frank, the colour of warmth and of love, of hunry and of energhy. Yellow is gay, suggestive of expherance and of merriment; the sacred colour of the Orient, in the symbolism of the west, it stands for realousy Blue is the colour of seremty. It symbolizes constancy and reserve. It suggests depth, atmosphere, profundity. It is the colour of the spirit, as red is that of the flesh. Green, too, is soothing, a symbol of aspiration. And what of purple and violet? Their feeling-value is uncertain. Shall purple perhaps be conceived as the excess of red, and violet be

¹ The Deprise of Re West — The 'percepture problem' in the sethebre appreciation of single notions," Bril. J. Psychol. a (1906), pp. 466-65. See also, for a penetrating treatment of colour from a different angle, Richards, los of, p. 033.

thought of, as by Lafradio Hearn, as the colour of the Unknowable, as the colour of the Holy of Hohes?

In the study of colour symbolism or of individual variation in askow preferences, the use of colour by the poets is of particular interest. Probably the most frequently tabulated item of the poet's vocabelary has been that of his colour-works. But an interpretation of statistical returns is difficult where the poet not only uses colour as a delicate symbol or because of his innate love for it but also because of the sound-values of the colour-names themselves. Colour adjectives are often woven of inestricably blended fibres, visual, auditory, emotive. Yet, too, the realistic motive in use of colour should not be overlooked; the natura poets may seek the one colour adjective that a actually descriptive of the natural affect that preoccupies their attention. It is not difficult to find illustrations of these various uses.

Red, as we have seen, is a sensuous colour; a pagan colour, according to Christina Rossetti Though red tone delapited Keats, the word "red" occurs in his poetry but rarely. He daisgitted in its varianta, rose and grimson, scarler, ruby, and vermition. Rese for him is the liove-colour as it was for Mercditth, also, who sings of Love's "rosy memories." Swinburne, it is, who uses the word red to excess, fascinated by the pure tone of blood-red. This is the colour of the passion of love, the colour of sterm and of ruin. The too sensitive organism of Shalley found red stimulation excessive, painful. The word red suggested dread passions; the horrors of war, the terror of burning homes; but crimson was reminiposent of dawn and beautiful with the fires of dawn.

Green, as Keats uses it, is the lovely colour of grass and this colour of hope. He sings: "For love the red, for bope the gentle green" Strange it is to note how Swinburne, apparently oblivious to the wooderful blues of the sky, is quick to descent the coquinte green that at times blooms there in "the sweet green spaces of the soft low sky." Merchith, too, know the exquisite sky-green of daws.

" But love remembers how the sky was green, And how the grasses glummared lightest blue."

If blue be indeed the colour of spirit, of distance, it is not

surprising that Shelley found here his colour of colours, that he delighted most of all in the same of the sky and but a little less so in the earth-green and the sea-merald. Blue and green commingled are the colours of sky and ocean, these two great aspects of nature that wheel so intertricably in Shelley's world and flooded his eyes with wide and glorious vision. Hear Ocean sheding in his british drams.—

"The load deep calls me bome even new to feed it With sourcealm out of the smershi urns"

Green shot with golden light wove a spall of enchantment for Shelley. How often does he seek to mirror the fairy-like hue, green and golden light slanting through tangled leaves or dropping from folded lilies.

The dependence of the postic amagination upon racial and historic sentiment is shown in the long banishment of the word yellow from the poet's vocabulary and the substitution of the word golden accept where a disagreeable connotation is desired as in Keats' "deadity yellow splean" and Swinburne's "yellow jealousy." Yet the excessive use in poetry of the word golden testifies to the deep love of the poet for the colour of smilight, and of amber. Only those who have listed the number of times that the word golden occurs in the poet's vocabulary can appreciate how the poet, as the Byzantme painter, would have his delirate figures bloom against a background of dusky gold. Nor is it surprising to discover that among poets Ressetti, the poet-painter, is especially enamoured of the word.

But the Nature-poets cannot submit to the ban on the word yelkew. Note how Meredith, the lower of the bouncess earth-mother, rejectors in her harvest colours: "Yellow outs and brown wheat, barley pale as rye." How much his own is the nut-brown colouring of his verse, the loses eye that marks the blue-necked wheat, the browns-orange lasf

Purple and violet have served the posts but little in a descriptive way. To be some, purple diothes the mountains at nightfull, shadows the deep waters under a souther sky, darkens the line of heaven at midnight. Mostly, however, the poets have found in purple the colour that expresses are access of passion and extravagance; they have used the

word with symbolic force as in Keats' "purple-lined palace of sweet sin" and his "purple riot" of the heart. Purple is the dominant colour-store of "Somnets from the Portaguese," where it symbolises the royalty of love, as witness the kins that is folded down upon the lips of the Beloved in "perfect purple state".

In the use of the adjectives, white, grey, and black, colour symbolism is particularly apparent. White for the poet has a double commutation. As the colour of the bloodless und of the cold it is allied to death, hence Tennyson's "death-white curtain" and Shelley's "shadow of white death" But it as also symbolic of purity, virginity, and durating radiance as in Swinhurne's "white dreams," he "glory of whote wangs," his "stu-child whiter than the sumit support.

Grey is the most subtle of symbolic adjectives. It is the culour of weariness, of age, and of teat " hence, grey miscales, grey hips, grey fruits. Grey is the toning of "Andrea del Sarto":—

" A common greyness silvers everything,"

Grey m siso the sandlike colour and it is fitting that the Soul of the artist in Rosetti's "Hand and Soul" should be garmented in grey and green. And grey is the colour of achievement, for one may be "grey with glocy more than years." Black is the colour of all things dread, of black blight, black thoughts, black thought and black waste.

Sometimes all descriptive value fails the colour-adjective as we have stated before and it is used with delicate connective value. Thus the poets have coloured the winds for us, silver and red and black. They sing of the "yeslow yesterdays of time," of "green immortality," of the "green blud of sorrow," of the "green dreum of Paraduse"; they celebrate " musin's golden tongus " and " passion's golden purity", a "golden and beloved soul " or " The golden answer to the deeply willed."

Poe with has penchant for symbols found such use of colour alluring. His poetry reveals a meagre colour vocabulary and a conventional use of such words in descriptive work but also a skillful use of colour-adjectives when emotional toning is concerned. His prose, too, shows the employment of colour symbolism in the communication of evanament and delicate feeling-values. Else wherefore his careful setting of his scenes? The shadowy tapestries that stir to uneanly in the melancholy House of Usher; the Eving curtain and carpet of golden tissue amid whose glory the Stranger in Venuce by the San dies so exstatically for Beauty's sake? Nineteem of his first (wanty-one tales of the horrible are laid wholly or chiefly in the night-time, usually at midnight or in the blackest night.

The poet may, however, use colour in the simplest of fashions; he may even use the redundant or implicit colour fashions; he may even use the redundant or implicit colour adjective whose meaning as inherent in the nown qualified. Thus he may sing of green grass, yallow bees, silver stars, underscoring as it were the colour quality. Or he may induction the himself in delucate observation of the horse and thus of earth and sky, exhaust his colour vocabulary in his effort to find the final word expressive of the sequentic tone-colour of the spring leafage, the faint settunnal hyadinth of an inland sea, or "that grayish-green that Nature loves the best for Beauty's grave."

The nineteenth century has given us our great colourists in poetry. Keats and Shelley stand unexcelled, the one reveiling in rich gargeous colouring, the other in rainbow muts shot through and through with light. It is the first who sings of the casement in the bornoul casele that its pance were:

"Innumerable of stains and splended dyes, As are the tight-moth's deep-damask'd wings "

And the second exclaims of the comforting spirits in "Prometheus Unbound":—

"See how they float
On their sustaining wings of skiny grain,
Orange and azure deepening into gold.
Their soft smales light the air bice a star's fire."

No bare adjective carries such colouring as this; it is wood and warp of the verse itself, the myriad-coloured blossom of the missic of words.

The poet may indeed use his colour-adjective for its muscal value alone, for its assenant, ulliterative, or rane quality. Such a choice of colour words is particularly noticeable in the auditory poets such as fabelley and Poe. Prequently the former conjoins asure and falle and asure and chasm as in "ature chasms of caim" and "the asure bles where sweet wisdom smiles." And Poo's sensitiveness to alliterative sound explains much of his plunging; his purple performe, his velivet violet liming, his chory bard, his moon-tints of purple and pearl. It is when we commder the musical quality of colour-adjectives that we discover why certain colour words have been discarded by the poet. For instance, the word pink occurs so rarely in poetry doubtless because deficient in melodic quality. We understand, too, why golden and situate so existentially poetic, the one because of its long "o" and the other because of its one" is maining-value of allver, so mextricably are the auditory and visual blended in such phrasing as allver sound, silver light, silver sapling, or in the line from Massesial:—

" A star will glow like a note God strikes on a giver bell "

Those pioneers who are attempting to create a new art, that of colony-muon, have stimmlated much discussion of the analogues between colour and sound. Their points of departure have been somewhat diverse. Some have deemed it sufficient to question the affective values of colours and to determine, if possible by experimental means, the elementary colour perferences of large groups of people. Others have centred their attention on colour symbolium which, as we have seen, possesses to some degree general validity. In any case we have the curvous phenomenon of an attempt to create a new have the curvous phenomenon of an attempt to create a new art by laboratory and analytical methods. But art as so largely concerned with perceptive and unaginative wholes that one attimpates success only in terms of a discovery of form-correspondences between visual and auditory configurations.

Spengler, discussing the Soul of different Cultures, criticions the conventional dissinction of the arts as purely artificial and physiological. He behaves that the formative impulse at work in the wordless arts can only be understood when we realize that the distinction between optical and accountic is only a superficial one, that their inner form-language as the same. "A 'singing' picture of Claude Lorram or of Watteam does not really address strigt to the bodily ver any more than

the space-straining music since Bach addresses itself to the bodily ear." Tones are extended, limited and numerable just as lives and colours are; harmony, melody, rime, and rhythm are of the same essence as proportion, chiarocave and outline.

It is possible that arisingles between sound and colour, or, indeed, between any varieties of sensation are very thorough going. Delicate patterns of perception may be involved in such a way that one may conceive of them as moulds into which one may run any sensory material whatcover. In the next chapter we shall have occasion to discuss in some detail that curious cross-circuming of the senses which in its cartenue form is known as synsethesis and which, when its scoret is discovered, may contribute to the creation of the new art of cultur mixels.

CHAPTER XII

THE CONCORDANCE OF THE SENSES 1

Age critics rejoice in such expressions as colour-harmonies, melodic lines, frosty music, fragrant morturnes, lond greens, singing blues.

The post, too, as Massfield -

"For all together sang with throats So tuned, that the intense Colour and odour pearled the notes And passed into the sense."

The significance of such confusion of sense modalities has aroused much discussion. Does it evidence degeneracy of style? Is it a lovely florescence of language, checkethy evocative of emotion? Is it rooted in actual experience so that we may conclude that posts and maginative writers are especially subject to that malady of the senses wherein they become short-circuited, so to speak, and one sees sounds and bears colours?

There is in existence a voluminous literature on symesthetic experience, of which there are many varieties, suddies colorie being the most common. Of this, many illustrations might be given. I content myself with one only, the case of a gul, who, when intering to a telephone call, sees the colour of the voice of the speaker. "She sees this colour with varying degrees of vividiness as the speaker's volce fluctuates. Expedity and enthusiasm of speech make the colour bright and intense as a fanned flame, while a sad or depressed voice glows dully as the smouldering sabee of a dying firm."

Other curious confusions of sense cocur such as gustatory andition in which sounds become tastes, so that one may speak appropriately of a banana voice; of tonal vision, in which

³ In the chapter I have made free use of material in my report on "Leterary Symerthema" in the J of Phil, Psychol & Soi Mith, 9 (1972), pp. 490-495. By parmismon of the Editor.
Support report

light and colour change into mange or into simple topes as for the post who could have the pitch of the greecent moon

A number of explanations have been suggested for synasthetic experiences. One of the most common is that they originate in ordinary association of thungs conjoined in experience or of common emotional toming. The difficulties in the way of this explanation are (x) the vividness of the accordary associated experience which seems to be, in many cases, an actual sensation, and (2) the fact that this accordary sensation. is not within the control of the person experiencing it. Others hold that synesthesis is rooted in a reversion to a more primitive nervous condition before clear-cut sense distinctions had heen evolved : or that it is due to privileged pathways in the brain: or is the outcome of pathological conditions. Some psychologists explain it in terms of hallucinatory experiences and psychic dissociation: the psychoanalysts actuarize it as a clue to represed amotional complexes, lately the investigutors of cidetic imagery have been re-examining the phenomenon from their particular angle, and the exponents of colour amusic exploiting it in the hope of discovering some cine for a colour scale.

In this connection we wish to make one point only, namely, that there would seem to be case of true symmethesia and cases of pseudo-symmethesia. In the former, the confusion of the experiences is at the sense level—in the latter, at the magmal level. The man who actually sees colons when he hears music must be distinguished from the man who swages colour or mereby thinks at. "U" is a blue letter for me, but I do not see "a" as blue, I merely think it as blue.

Coloured sensation is rare but not so coloured thunking. There are many persons whose thoughts or uneges of the months of the year or the days of the west or of Christian names are always coloured. Sounds, if they arouse colours, arouse them on the unaginal rather than the sense level. Every letter of the alphabet—or if may be the vowels only—is thought of in its appropriate colour. Souncimes, the rolour of words is a maxime of the letters that compose it, sometimes, the vowels give the colour-tone to the whole word; sometimes, words have their own colour-tone distinct from that of their constitutes itstees. In any

case a collocation of words may present to one's inner vision a coloured pattern—a sort of wall-paper of thought. Curistian names are particularly apt to appear in thought coloured To many persons it seems not at all grotssque to speak of Edizabeth, us a blue name or of Louise as a brown one. To othere, the only thing grotssque in such a manner of speaking lies in the choice of colours. Whelly individual, undeed, accums the particular coloury associated with particular names or letters. "A" may be black or brown or blue or yellow; "E" may be blue or red or plak or gold. Lafacido Hearn, who experienced possibly a true symesthesus, writes, "The readers do not feel as you do about words. They can't be supposed to know that you think the letter 'A' is blusherimson, and the letter 'E' rads sky-blus."

Just why the letters of the alphabet, especially the vowels. should associate so readily with colours and take from them an emotional and sethetic toning is something of a mystery. Rhetoricians who write of vowel-colour do not expect their words to be taken too seriously. Quits serious, however, was the French artist who planned a dramatic performance in which wowel, colour, perfume, and orchestration should be in perfect accord, each the subtle echo, the other-sense counterpart of the other. The theme chosen was the Song of Solomon. One recitative was phrased in "i," illuminated with golden light, perfumed with the incerse of white violets. get to music in D. Other recutatives brought other concordances of vowel, colour, perfume, and music. This somewhat fantastic experiment was foredoomed to failure chiefly because there is no accord even among those individuals who think in colours as to the appropriateness of the colours abosen. To the man who has no such turn to his thought the whole experiment must seem futile to a high degree.

Psychologically, the attempt to treat together cases of true symenthesis, in which sensations of a given sensory quality regularly and uniformly arouse sensorion of another sensory tone, and cases of so-called coloured thinking or the employment of sense-analogies in a figurative or reflective way, has induced some confusion. Each of these topics is undemably

¹ The Jupanese Latters of Lafonder Haum. Edited by Elizabeth. Bishood.

interesting and may be related to the other in ways not yet thought of, but, at present, each demands separate treatment.

Let us inquire to what extent true synasthesis is to be found among poets, and then question the settlette value of an exchange of sense-qualities and the extent to which such transfer is employed by imaginative writers.

The objection may be raised that, apart from a personal examination of a given poet, it would be impossible to answer the first question, for in appeal for answer to the poet's works we cannot with certainty distinguish between spontaneous and deliberate analogies. The objection is undoubtedly well taken. None the less, the attempt to answer the question allures one. It seems scarcely possible, for instance, that a poet, who experienced a systematic case of coloured hearing. in whom, that is, sound uniformly and constantly aroused colour, would fail to show this peculiarity in descriptive writing. Every one will recall Rumband's "Sonnet of the Vowels" which, it must be confessed, sounds somewhat sophisticated. Bandelaire's unistance upon sense-currespondences and Manpassant's confessions are scarcely more convincing. Gautier and Alfred de Musset, however, undoubtedly give as genuine examples of autities colorie Leaving. however, the French post and futientiar to the mercy of the French critic and psychologist, I have found it interesting to make a somewhat detailed study of certain English poets in order to determine whether or not their poetry shows any cyclenes of systematic or sporadic arousal of one sensation by another. To gather material for this study I have recorded every case of sense analogy in 20,000 lines of English poetry 2000 lines each for Shelley and Keats; 2000 each for Blake. Rossetti, Swinburne, George Marethth, Browning, and Poe, Only one unambiguous case of synasthesia was discovered.

Only one unambuguous case of symmethesia was discovered. For, sungung of the sound of the coming darkness, adds in a footnote to "Al Asraal": "I have often thought I could distinctly hear the sound of the darkness as it stole over the hunton"

There are also corious passages m Poe's "Colloquy of Monos and Una," a tale which is a conversation after death between Monos and Una, in which Monos describes the process of dying, or the feelings after death. "The senses were unusually active, although eccentrically so—assuming often each other's functions at random. The taste and this small warning instrictibly confounded, and became one sentiment, abnormal and intense. . . The syntide, transparent and bloodless, offered no complete impediment to vision. As writing was in abeyance, the balls could not roll in their seckets—but all objects within the range of the vasual hemisphere were seen with more or less distinctiones; the rays which fell upon the enternal ratios, or into the conner of the eye, producing a more vivid effect than those which struck the front or anterior surface. Yet, in the former instance, this effect was so far anomalous that I appreciated it only as somether and the second sweet or discording as the interest presenting themselves at my side were light or dark in shade—curved or annular in critica.

"As these (a.s., figures) crossed the direct line of my side their images impressed me sifers; but upon paramy to my side their images impressed me with the idea of shricks, grooms ... you alone, habited m a white robe, passed in all directions muchally about me ...

"Night arrived; and with its shadows a heavy discomfort. It oppressed my limbs with the oppression of some dail weight, and was palpable. There was also a meaning sound, not unike the distant reverberation of surf, but more continuous, which, beginning with the first twilight, had grown in strength with the darkness. Suddenly lights were brought into the room, and this reverberation became furthwith interrupted onto frequent unequal bursts of the same sound, but less dreary and distinct...; and, sixtung from the flame of each lamp (for there were many) there flowed unbrokenly into my cars a strain of melodious monotone."

Except for the one instance of tonal vision For gives no other example of clear-out synerthesis in his poetry and direct few samples of straining some-analogues. Once he forms a pretty content of a goddess's song carried to heaven as ofour and he describes the sparking Echoes that flow through the door of the Haunted Palace in terms of visual personification.

Movement, as I have suggested elsewhere, vivilies Poe's magery to an extraordinary extent. He daughts in wanged odouts, floating banners, ethereal dances. This precompation with movement affects even his description of things anditory. He images a goah of melody welling from sounding cells; he sings of floating ditties and of grouns that float; and m "Lencer":

" No dirge will I pyrame,
But want the angel on her flight with a pman of old days ! "

Such descriptions of sound in terms of movement frequently crute a visual interpretation. Sometimes even a complete translation of sound into vision is effected, as by one reader of the line quoted above who saw the music following the angel in a stream of light. Such translation by Poe of sound into movement and a retranslation by the reader into visual terms perhaps accounts for the fact that Poe, more than any other of the chosen poets, aroused synesthetic experiences in his readers.

Next to the one attested instance in Poe, Swinburne's portry furnishes the best evidence for a possible synarchicola. It is Swinburne's peculiarity to deal with aimple sense-qualities in an abstruct and emotional way with results very unkie the plastic and pictoral effects produced by poets of another type. It is this abstructness from perceptual quality that accounts for the peculiarity cleave and monotomous effect of Swinburne's poetry. Swunburne's procomputation with simple sensational tone might well furnish opportunity for the expression of true synarchesis and such we possibly find. Light and minds are used as almost interchangestile terms. He sings of sounds that thine, and of song visible. His is the line: "Light heard as measurement seen as left."

Swinburne's synastiletic phrasing, although often dismissed by his readers as unmeaning, derives so much beauty from its association with melodious words and rhythmic adences that, presonapsed with the deleght in sheer wordmuse, they often surrected at demand for meaning. Swinburne's frequent attempt to reader song visible is, however, rarely successful, although time are readers who make the transfer, so one who images visible means as tiny motes flying in the smulight and another who sees the blue, not of the sky, but of the music, shings through rifts in feesy clouds. The sense-analogies of Wilham Biaks are difficult to quality. Blake, as Swinburne, has an old way of describing hungs heard in terms of things seen but, milke Swinburne, Blake's shift is at the perceptual level rather than at the sensational, as when he speaks of a virgin clothed in nights, His description of the auditory in visual terms is often felt to be radicultur or trumsaning, as in the line.—

"And all thy mount flew o'er my roof, but I have called them down"

Translated into definite imagery, this fragment becomes abund, as was reported by one resuler to whom the means appeared as pigeous. A slight blurring of the imagery so that merely vague flying creatures of some sort are seen randers the imagery more supportable.

The lines :-

"Sweet means, develor aighs, Chase not alumber from these eyes,"

again bring visual personification of one sort or another. The one reader who reports a literal translation finds it charming. The vaguely outlined means and sighs, evanescent visual fishes of errev are felt brushing the evelods in a faint filcker.

Although tonal vision is a very rare form of true synsithesis, it is the most frequently mutated pattern in poetic analogies. It is a favourite not only with Swinburne but also with Sheller who, smeme of the comme morn, asks:—

> "Hear I not The Rolen munic of her ses-green plames Winnowing the transon dawn?"

And, again :—

"This is the mystic shell, See the pale asure fading into silver, Liming it with a soft yot glowing light, Looks it not like lalled music alsoping there?"

There is, too, a noteworthy description of the nightingule's song in terms of the bird's circleng movements, a description which may issue in an interpretation of the song as circling light. One reader reports, "I see the music as rings of light twent up into the sky where suddenly they break and fall to the eround in a shower of stark." In general, Shelley's readers find his sense-analogues most beautiful. They do not often make the translation he suggests, but they find their imagesty enriched by all manner of debeats coanotations. Where, for instance, the silver and asure of the mystic shell are said to be like lailed musts, one does not translate colour into sound, but surrenders, instead, to a delightful relaxation such as is induced by soft impic, or allow one virsulizes the shell to the accompaniment of orchestral strains or to that of the ocean-murnur resounding faintly in the shell's pale whorly. Again, one may not hear the Zohan music of the dawn, but may see, instead, the wind pluming itself among the dawn-cloods or may hear the sighing of the morning breese. The descriptions are at once of things seen and heard together, and, therefore, the appropriateness of the double imserve, as in the line:—

"Whose waters like birthe bight and music are "

The French exponents of hierary synasthesis are fond of quoting a calchrated passage from Shelley as evidence of the translation in his mind of music into odour. It reads:—

> "... music so disheate, soft and intense, It was felt like an odder within the sense "

And in another place:--

"Think old wild songs which in the air Like homeless odours floated."

Not only is mostic translated into fragrance, but also, in turn, odowr as described in visual terms. Thus the odours that he visibly above the flowers suggest the vizon of tiny clouds that carry the perfumed money of flower and forest.

The many forms assumed by Shelley's odour-similes toggest that the conversion is hterary, not spontaneous. Readers frequently react to them with olfactory images, in themselves highly pleasant.

An actual transposition of visions and sounds into odours as, so far as my knowledge goes, never been reported at the psycho-physiological level, although odour has been known to change over into colour. Shelley's departure from the facts of true synestheds again suggest an imaginative use of sense analogies rather than a genuine duality of sensory impressions.

The same remark holds for Swinburne's line --

"Thy voice as an odour that fades in a flame "

In general, the fact that coloured hearing which is a not uncommon psychic experience is so rarely initiated in poetry suggests that literary synesthesis is somewhat removed from the psycho-physiological variety. When sound is described as light, the vague colour-adjectives, solver or gold, are used arther than the highly specific colour-names found in reports on true coloured audition. A few examples to illustrate:—

From Swinburne .-

" Fine honey of song-noise, goldener than gold."

From Sara Teasdale .-

"Music like a curve of gold."

From Vachel Landsay:-

"By hymns of hvmg silver, songs with stures in the

One looks in vain for many lines similar to Teasdale's :—

"Up from the village surged the bland and besting Red mutate of a drum"

But even in the latter case, the context shows that the word "red" is suggested by the covert thought of war and blood, and not by the sheer tonal quality of the drum-bests.

In Keats' poetry we find a preoccupation with gustatory and tacule quality, a preoccupation which is also found in his sense analogies, which are at times most unportical as in the lines:—

"O turn thee to the very tale And taste the mumo of that vason pale "

An effective phrasing is that in which he sings of the "velvet summer sung" of the wind, lines upt in the arousal of tactile imagary. The most noted of his synasthetic lines are the following:—

> " Lost in pleasure, at her feet he amba, Touching with dazzled lips her startit band "

It is significant that a reader who makes an almost hallumatory translation of the words into light localized on the lips finds the lines highly pleasant. Other readers comment upon the obrasile as fantastic.

Keats' "danzied lips" recalls Swinburne's "blind lips" and Blake's "blind kand." The latter phrasing is exceedingly effective for those who see through the delicate finger-tips and who, consequently, appreciate the reality of that most terrifying and ruthless blindness, tectual blindness—the unshialded and untender intigacy of contact with the Upknown.

The statuseous quality of much of Keats' imagery, in contrast to the dance and buoyancy of Poe's fitting visions, also axemplifies his preoccupation with the tangible. Foe often describes sound in terms of movement; Keats, on the other hand, frequently conceives music as tangible, material, as in the wooderful lines—lines which yet perplax many readers.—

" A haunting music, sole perhaps and lone Supportress of the isery-roof, made muan Throughout."

Such a cursory review as the above of a few chosen poets leads to the conclusion that while there is very slight evidence that the chosen poets experience true symesthesia, there is some justification in concluding that they enjoy, more than the ordinary reader, analogies between the scuees. It may be stated as a principle of interpretation that an analogy which the average reader finds forcood and unmeaning probably represents a peculiar but natural, rather than reflective, mode of thought for the poet. We may, then, interpret Swinborne's tonal vision, Poe's phonism of the night, Blake's visions, and Kests' "darsted lips" as due to individual idiosyncrasies, while Swinbourne's organic toning of phress ("Analos Swirollike was the sound of the iron wind") Poe's kingsthetic analogies, Kesty' tactual imagery, and Shelley's odour and auditive similes are literary and imaginative in significance.

It is an interesting outcome of this survey of sensenalogies that in an indirect and, therefore, desirable fashion it confirms certain inferences based upon a more direct application of the Method of Style. The chosen poets sujoy embellishing their figures with a favoured form of senseexperience; odour for Shelley, touch for Keats, movement for Poe.

The present discussion has concerned itself largely with highly fused dual impressions. Deliberate and explicit comparisons are, of course, also common. A few examples may be cited:—

From Maasfield :-

"I have seen dawn and sunset on moors and windy hills Coming in solenin beauty him slow old tunes of Spain."

From Amy Lowell :-

- "You are beautiful and faded, Like an old opera time Played upon a harparcherd"
- " And the perfume of your soul is vague and suffusing."
 With the pungence of scaled spice jars "

It is quite possible as we have suggested in discussing colour music that a more intimate understanding of the inner form-language, of perceptive and emotive patterns, may give us a better comprehension of sense correspondences. Symasthesis should be investigated by the new configurational methods. It might repay the investigator to study the transfer of sense adjectives from one sensory field to another in the course of the evolution of language and to compare extensively the explicit substitutions that are found in deliberate sense similes and naulogies.

Symmethesis may, it should be observed, be systematic, it is constant in appearance under given conditions, and uniform in quality, or it may be sporadic, occur, that is, only occasionally. While symmethetic experiences are not pathological, yet they are known to result from structuation by drugs or to accompany the excitament of fever. It may be that this poet in creative mood experiences subtle fusions, emotional totalities that fead to a spontrainces symmethetic phrasing in his poetry, incomprehensible to the average reader

Synasthesia has sometimes been understood in another sense by hisrary critics who are interested not at all in the problem of sense-confusions as the psychologists understand

it but only in the coloration of style. They have had much to say about clang associations by which they mean as association between a color and the vowels that predominate in the name of the colour. For example, an association between "a" and black; yellow and "o"; "i" and plak. According to Amy Lowell symesthesis has literary value only when based on such clang associations. She quotes with approval Fletcher's poem on "The Vowels" because it is worked out on the bases of such associations, as in the lines:—

"A, flaming caravans of day advancing with stately art Through pale, sally desarts of grey to the shadowy dark of the heart."

This poem of Fletcher's shows the degree to which one can give colouration by playing upon the vowel dominant in a colour adjective and choosing such images as shall call up objects so coloured. One further example to illustrate this:—

- E. parakeets of emerald shricking perverse in the tree, Indexcent and westers chameleons tremules in the breeze, Peace on the leaves, peace on the sca-green sea, Ethiopian tembrels that tankle malodimaly "
 - 1 Tendezeses in Modern American Postey, p. 293 f

CHAPTER XIII

POET AND PSYCHOLOGIST

UNPORTUNATELY for the experimentalist, it is not often possible to summon poet or novelist to the laboratory for an intensive examination. Occasionally this has happened; in France, for instance, as in the case of the exhaustive study of Zole by Toulouse; 1 or in the rhythm experiments conducted upon Amy Lowell at Columbia University. * Besides direct examination it is, however, possible to make ingenious use of the interrogation point in other ways. If patient enough the psychologist may have recourse to statistical investigations, such as were described in the preceding chapter, or he may study other productions of the poet or may question. the post's art theories. We find the assumptions of the latter paralleling in very subtle fashion the introspections of students in the psychological laboratory, a most instructive parallelism, all the more because, for the most part, the student is ignorant of art-theory and the poet-critic ignorant of psychological questionnaires.

At risk of violating my own combasions concerning the undesirability of attempting to draw deductions about a post's mind from a perusal of his poems I propose to hazard certain conjectures relative to a few poets, appealing when possible to their own confessions masked sometimes as theories of poetry.

Let us first seek to analyse the mental stuff of Vachri Lindsay. It would seem composed largely of motor, organue, and anditory content, although there is also a wealth of fitudic visual images. This motor and organic material is rhythmically organized. Lindsay's preoccupation with motor hythm is evidenced not only by the character of his verse but also by observation of his movements during recitation

i Kmih Zola

Patterson, W. M., The Haythm of Proce (and Ed.), p. xz. t

of his poetry. It appears also in his drawings, drawings in which the arabequea, the flowing designs, the complication of lines impress one as a projection on paper of his own wearing gestures and steps. Even his use of the human signre is fluidic, involved in the swirl of movement. His flowing wene with its constant repetition of the "motiff" and occasional staccate gestures in the form of bosming vines is a replice in auditive form of his rhythmic motor patterns. Lindsay's imaginal content can project itself in pantonime or poster or poem; it is difficult to think of him noducing exolutural effects.

Lindsay's delight in hyperbole, of which I shall have more to say later, is another evidence of obsession by motor and organic imagery, so, too, his empaths identification with the objects he describes. His imagination is definitely difficient, rather than plastic; his constructions are emotimizily or arganically motivated as are those of the dance. Precision of time relationships in presentation is much more emphasized than spatial relationships. Note, for example, his curious handling of the latter. Relative suze is dictated much more by emotional emphasis than by a millimetre stick. He is copying mental images, not objects of the outer world.

One suspects that much of the ripening of Lindsay's ideas goes on below the threshold of consciousness although he protests that he is "no improviser". His symbole meanings as used both in his designs and in his verse suggest something of the child-like naïvets of Blake's. His "Soul of the Spider," "Soul of the Butterfly," and "Soul of a Flea." suggest a spontaneous mysticism.

It is interesting to compare the analysis just given with Lindsay's own account of his mental development, an account not read with long after the analysis was made. In opposition to the prevailing notion that he is a student of phonetics, Lindsay urges that it seems reasonable that has were be pudged "not as a series of experiments in sound, but for infrinme and even hereditary thoughts and memories of painting." a sentence which is followed by the story of he ambitton to be an artist and his training in drawing." He states as an attonishing fact—and a most revealing fact is from the psychological point of view—his seventual discovery that he could draw better from memory than from life. What Lindsay is obviously doing in his drawings is to project, graphically, inwardly felt motor tensions, hence the strong urganity toward expression. Clear-and vasualization may exist without such urgancy but a predominatingly motor organization as Lindsay's will seek outlet in some form, in his case in three forms, drawing, pantomine, and verse, the latter often composed, one suspects, aloud. In the diffuent imagination auditory and visual content often melt into one another, dissolved by organic and motor tensions, the series of much poetic synasthesis. Lindsay, from the psychological point of view, is neither visual not auditory in make-up, he is reconciling motor.

In contrast to Lindsay we have the highly self-conscious technique of Amy Lowell, dearly aware of what effect she washes to produce and how to obtain it. Here we have the plastic imagination in a developed form. Such an imagination delights not only in pactorial but also in sculptural effects. Movement enters into its imaginal stuff, but it is movement saws rather than fell. You creep with Lindsay's black men through the jungle but you watch the slow movement of the lady's hand through the water in this lovely but from Lowell:—

"A woman sat beaded the water
In a ran-thien rulers gamment
She reached through the water
To pluck the crusson pecanos
Beneath the surface,
But as the grapped the stems,
They jurred and broke into white-green rapples,
And as she does out her having from it
Stanned her rain-bluc drase like texts: "1

Movement for Miss Lowell is always on the verge of hardening into something solidly visible. Thus .—

- "The pool is edged with the blade-like leaves of mass If I throw a stone into the placed water, It suddenly staffens
 - Into rings and rings
- Of sharp gold ware"

¹ Quoted by perimenon at Honghton, Maffan Co. from Pictures of the Floating World.

As we have already som, the distinction between movement felf and movement seen is very fundamental and may in the future serve as a class in determination of psychological differences implicated in the consolous and non-cumacious processes of creation.

Miss Lowell's presentation of the case for the Imagists and the wealth of virtual material in her poems have resulted perhaps in too narrows a conception of her imaginal capital. Judging from my own experiences in reading her poetry and from comments in her book on Tessistence is Mediera Ausricas Poetry," she belongs very definitely to what the psychologists would call a mixed type although with a dominance of visual material. Her definitely visualized and highly coloured somes echo with manyiold sounds, and are invaded by fragmost. There is much evidence of precognation with touch and temperature images, another sign of the sculptural imagination. Always, spatial relationships are described conceived and accurately impressed upon her content. Such clear-out definite effects remind us of the Greek imagination in contrast to the Hindoo.

Miss Lowell as protagonist for the Imagistic School of poetry has objected to a too narrowly conceived interpretation of its purpose such, for instance, as the notion that the Imagests are word painters. Imagism, she affirmed, is a kind of technique rather than a choice of subject. But she failed, possibly, to realize how deeply rooted artistic method in imaginal and emotional predisposition.

Let us note Miss Lowell's own exposition of Imagism, passing over for the time such matters as its use of a particular worabalary or verse-form

The aim of Imagian, Miss Lowell states in Tendences is Modern American Postry is to present an image, for although not a school of paintern imagints believe that poetry should "render particulars exactly and not deal in vague generalities, however magnificent and someous." They criticate for this reason the comic poet who fails to face the real difficulties of his art. Our nim is "to produce poetry that is hard and clear, power blurred nor indefinite." Imagism is presentation, not representation; it seeks to mirror perceptions not washedout, generic, functioning images.

This stressing of observation, of perceptual attitude, has borne interesting fruit in certain poets and in some of Miss Lowell's own departures. Such developments are definitely akin to those of modern schools of painting, and to appreciate them it is necessary to get away from the matter-of-fact assumption that a world of objects supply exists and that all our used do us to open his eyes upon them. The development of perceptual possibilities in the child and possibly in the race is a long story. Virtuosity in the way of sensing colour in shadows, form in clouds, unity of line in flowing draperies and blowing trees, and in intersecting planes has come us an achievement not a rift. Likely enough it originates in the keen sensitivity of those most richly endowed in the way of sense-organs who, however, pass on their discoveries to their neighbours and so sharpen racial discrimination for colour, form, tone. The world of bare sense qualities has, it is true, at the bidding of very substantial needs such as those for food and shelter, crystallized into pretty solid phrects common to all people. But it was not so in the early days of life when neighbouring sense qualities mucht interpenetrate and be chaped off by conscionmen in patterns different from the conventional ones of the averyday adult. Neither need it be so, for the racially nonconformist mind of the hypersensitive artist who demands freedom to break up his sensations as he chooses and to synthesize them into new patterns. The unity of an object is constituted by the purpose dominant in the mind of him who perceives. If I am thursty I see the orange on the tree as a distinct bit of colour that promises a satisfying taste and organic content, but if a painter I may sense it merely as a high light in the globing green, or as a scheme of interlecine circles.

To break with the fundamental racial purposes in our creation of a world of objects is to risk breaking connections with the group with which we live but there is always a possibility of a later reunion with consequent enrichment of the former world. At any rate twentiath-continuous of the former world, At any rate twentiath-continuous artists have been experimenting with all manner of novel ways of seeing the world and in the Post-Impressonate, the Cubists and Putaristic have given up new patterns of perception. The

permanence of their work will depend upon their success in assuming really vital points of view.

It has been said that the Imagists are seeking to do in pacity what modern artists are doing on carvas and in the sense that they are dealing with subfeture and novelutes of sense-perception, this would seem to be true. There is a playing with light, colour, time and plane. Particularly this notionable in the poetry of John Gould Fletcher, who describes nature with a delicacy and power of perception that should greatly carried our vision. Take this bit of description of trees from Fletcher's "Green Symphony":—

"With whiching movement.
They awing their boughs.
About their stams.
Places and planes of light and shadow.
Place aming from,
Opening fashio to full."

Or his marwellous description of the effect of cloud,

"Silver tilements, golden flakes setting downwards, Rupping, quivering flatters, repulse and surrender, The san broadered upon the raid, The rain rustine with the san "

We have here an obsession with dalicate and individual observations which baillies and contises the reader who is prococupied with his own schematured and simplified imental images which are often generic in meaning and to that extent less concrete and realistic than such highly individualized percepts as we get in Fletcher. How far one will employ such pectry depends very largely probably upon one's own mental habits, or the degree to which he has entered into new realists of art, according to Amy Lowell. The last two lines quoted above describe so inimitably for me certain natural effects that I recent Untermoyer's characterization of the passage as classific.

But, of course, individual psychic differences are operating, me in the critic than in the poet, as evidenced by Unitermosper in "The New Ers in American Poetry" when he speaks of Imagism as assaulting the eye, an over-insistence "on what should be seen, and not hear," irritating the optic narve by "acrobatic leaping from object to object." "Their critic,"

he writes, "seems to discount and decry the possibilities of normal vision."

For "normal vision" substitute "conventionalized perception," and we strike in Untermyse's statement the innermost heart of Imagism, as I understand it, namely, an attempt to sharply individualize its observations, and to do this somewhat objectively, with an unlimited range of material to work upon in the world of nature. Whather or not such poetry results in swe-strain denends upon the readers.

Amy Lowell's strictures against the "coamic poet" just as Untermeyer's against the "Imagist" grow out of her own mental preposessions. The emotional in opposition to the perceptual method in art deals primarily with generic author than highly individualized images. It employs the difficult imagination which achieves its purposes by use of wague, organically-toned images which suggest rather than picture. Although enamoured of mystery rather than clarity, it is, none the less, an authentic type of imagination, Oriental rather than Greek Oppenheim's "The Runner in the Skies," is a perfect example of cosmic poetry:

" Her fest are on the winds where space is deep "

We have had occasion earlier to comment on the theories of those critics who would conceive of poetry as an authory art mainly, a species of verbal mane. Here, too, no doubt, ocrtain prepossessions fostered by individual capacities are mastering the critic. Percy Mackaye insists that it is not easential that a poem be written but it wisst be spoken or sung. "The cadences, the harmonies, the saturate by the imagination upon consonants and vowels, sounds which subtly evoke the human association of centuries—these are addressed to the ears, not to the syes, of his audience."

Postry as amotional draws largely upon the vocal and verbal element. But it has also most subtle ways of creating dynamic and dramatic effects by its utilization of vivid organic sementions which are shunted by the most skulful sleight-of-the-post's-hand from one situation to another. The technique of emotional spread we shall canvass in a later chapter.



Book V

ATTITUDES, PSYCHIC PATTERNS, THE LOGIC OF THE EMOTIONS

CHAPTER XIV

ATTITUDES AND MENTAL PATTERNS

Dm you ever wake up in the morning all "set" for your Saturday programme to find that you had abpped a cog somewhore, and that it was necessary to transfer to your Friday pattern? You may even have been "set" to hear churchells and be greeted instead with the fish-horn proclaiming the weekly sail. (I meant sale, of course, but two mental sets collided and caused the undignified lapse, an unsolicited enample of what I'm trying to explain) In any case external pressure may succood in pushing you back into Friday in spite of your Saturday or Sunday frame of mind, but all day long you're teased by a feeling of having mailed yourself

A review of the plot-feedings that characterize the seven stories of the book of the week would be an excellent way in which to acquaint one's self with the kind of montal stuff that we are now to study. When listing and describing in somewhat static terms the psychic material of which literary drawns are made—the concretely patterned image in its many modalities and the verbal transcept whether isolated words or flowing inner speech—I mantod not only upon the evanescence of imaginal content, its extraordinary complexity, and the possibility of its functioning in fragmentusy and syntograted forms but also upon the fact that a description in static terms does violance to the dynamic, fragitive carush of thought, its quickstiver-like darting from one point of stress to another.

Our images detached from their setting are like butterflies mounted in a museum, lovely curiosities, but devoid of the flutter and flight of life. In actuality they occur in a quivering context of relationships, a mediey of fluctuating processes. In the discussion of imagery we intimated that there are psychologists who, recognizing the inadequacy of current descriptions of consciousness, insist upon our recognition of a different sact of thought-stuff, what they call imageless thought, naked thought. In its extreme furm this doctrue would seem to mean that we must recognize an element of the cognitive life other than sensation or image, namely, a non-sensory descent cannot be described: translated into words it becomes surmersted.

The opponents of the imageless-thought theory contend that its supporters do not sufficiently realize the comprehensive possibilities of words and of engines and kinesthetic sensations as a cartier of meanings. Nor do they appreciate the degree to which an image may be schematized, fragmentary, or attenuated and yet function efficiently. Your inner speech may be so telescoped as to sound to the linner ear as "m'm'm' and yet curry meanings well enough. Imageless thought may, they insist, represent the final term in automatization of a process, a teebs flare of light before the plumps into the dusk of the purely objections.

However the basal proposition of the supporters of imageless thought may fare, their hypothesis has, as we have urged in our discussion of images, immeasurably enriched our knowledge of mind by its insistence upon the significance of the sense of relationship, the fragmentary state, the pattern of consciousness. In its search for the naked thought it has discovered many curious other things. It has led to recognition and analysis of conscious attitudes, or totalities of feeling that sum up the patterns of our reactions to most complex situations. It has shown us, moreover, the much wider participation of the unconscious in thought than we had been accustomed to grant. We know now that determining tendencies, purely neural in nature, may condition the whole course of thinking. We realize that a purpose or a problem may be wholly turned over to the physiological and yet determine the drift of consciousness to the last degree.

Let us illustrate a little further some of the more subtle mental states before turning to the problem of the unconscious Take, for illustration, those delicate feelings of relationship which you isolate when you seasashed a reaction to an isolated proposition or conjunction. Observe, please, your feeling of "therefore" or "but" or "on." You will probably find on analysis that your meaning for these terms is carried by motor and organic material. As for myself, I find my sense of the meaning of "if" carried not only by an inciplent articulation of the word with a rising inflection as though other words were to follow but also by a tentarive lifting of the eyebrows and a slight holding of the breath. But, of course, meaning is more than the kineshetic carrier of it.

Mental attitudes are similarly garmented but more complex and stable. They are the manulysed fringe of many an experience. Note, for example, the state of mind into which you are thrown by the sudden apparition of a ? or on ? Punctuation marks are, in fact, nothing more or less than picturialized attitudes. Doubt, bewilderment, acquiescence mark our passage through a paragraph of proce.

The personfination or dramatization of numbers is similarly motivated. I recall that as a child I refused to allow y in crabbed old maid) or 3 de discreptuable vagabond) to appear in answers to arithmetical problems, quite to the detriment of my grades in number work. The embodiment of an attitude in a concrete symbol occurs frequently. This is true in the case of symbols for days of the week, for the seasons, and of nations, as winness our pictures of John Bull and Unrile Sam. Even Unite Sam's increasing stoutness as he grows older is a symbolized expression of a nation's consciousness of its own changes attitude toward the chanctury scheme.

Mental patterns involve still bigger organizations, a nexus of relationships, tags of meating, shreds of imagery and of articulatory habits, all unified by a dominant stitude or emotion. Take the first feeling of a story plot. There is a genue of richness, of latent images, of rich possibilities of meaning about to discharge over the threshold. It is not surprising that in reducing this mass of possibilities to defintively conneived incidents, characters, and settings, we lose much that assemed so alluring in its incheate form. A great deal of the melasses dings to the pitcher-spout in pouring it out, Professional writers acquire a technique for manupolating their mental sets and during their uninspired moments make observations and gather material, write descriptions and catalogue names and phrases so to have ready fit garments for clothing their ideas.

It is, indeed, a delicate operation to mapshot the mind at work. I am fortunate in having lo my possession a most interesting analysis by a vary clevar introspectuosist, Professor Wilson O. Clongh, of the University of Wyoming. I give this in full in the following chapter.

CHAPTER XV

AN INTROSPECTIVE SNAPSHOT

BY WILSON O CLOUGH

I TEND to reduce to writing as soon as convenient the rough draft of what I plan to work out, and to work on this stangble material. But I realize that the question is what I do before I write anything I suspect that whatever my mind does with much a problem is done so sketchily, so feetingly, as to dery definite analysis Indeed, I wonder if successful work with larger thought groups does not necessitate that the mental process become practically unconscious and habitual. Even if it could be found that some undividuals work through some definite schematic or visual or auditory image, it may be that an attempt to concentrate on that image-factor would

retard rather than assist the total thought process.

At any rate, I wish to make clear at once that whatever consistent, or even necessarily an element of my conscious thmking. I see sense upon such images and describe them in some detaul, but that in bocause they develop as I examine them—as they would if I were assigned the problem of arousing such images and examining them. Normally, however, they appear, if at all, as exocodingly flems, formally, however, they appear, if at all, as exocodingly flems, formally, however, instead of being varified mental experiences. Ynt I have tried to analyse what does occur in my own mind, and to avoid the pitfalls of invention. With such cautions, I proceed with the introspection.

I middenly conceive, let us say, of an idea for an essay, suggested by chance reading, reverse, or observation. How does my mind elaborate that bare suggestion into a plan for the essay—and how does it work toward the completed product? Obviously, there must be some larger unit of thought than the word or phrase, something to hold the whole together as I develop its narts. As nearly as I can indge, I seise first upon some verbal cines, holding each as it comes while I grasp for others (sub-vocally ?), dismissing some, delaying indement on others, subordinating some with a vacue motor serue of putting them lower, and attaching to others an equally vague importance, as worthy of further examination. Yet with this search for verbal clues to my idea and my potentialities, there is often a varne sense of form or scheme. This latter "scheme" has no definite order of appearance or development that I can discover, yet it seems useful however sketnky, for keeping the whole in mmd. Sometimes it appears se vaguely elliptical, as though I could grasp it and mould it into shape. Yet I mould it not with the hands but with the mind, as though the mind had but to command and it took ahape and form. But my mind is never on this shape der se : rather the shape dumly symbolizes the progress of my thinking, becoming less vague as I see or sense my idea working toward logical development. As I now seek to analyse this schematic phenomenon, it cludes ms. taking various forms. Yet as I recognize (with that sense of familiarity said to be associated with memory images) various schematic aids to this thinking process, I seem to see in them a certain progressive order, and I shall list some of them in that order.

Individual ideas may seem to take on the most primitive archalors spherical form, especially at the beginning; a note, so to speak, without definite limits of size or shape, but malting vaguely into mists trailing away to indicate ramifications of the idea not yet pursued. Or is it—I can't say with certainty—a sort of virbal node, a primitive I AM, degensating at all sides into the fauntest nomense sounds yet to be made meaningful. This is the achievance first step, describe it how you will.

As the idea develops, this nebulous form may seem to become several such forms, separate yet one, breely distresperating or combining, all parts of a whole which envelops all vaguely, yet allows the parts to be examined separately. These are the subdivisions of the idea. Sometime, by a sort of transition, this image becomes an arrangement suggestive of the tamily-tree form, a main idea at the top (the subject of the paper), a number of ideas below, perhaps three to make or seven, and even further subdivision, except that a fragment of an idea may be dismissed to some vague area below to await its turn when the mind gets to the smaller points. The scheme is a step beyond the first and the idea is taking form and approaching logical order—also coming nearer a definite form which might be put on paper. That is, it is less nebulous.

Again, there may be a vaguely nectangular form before my mind's epe (three dimensional, with my mind only on this top surface), horizontally extended from left to right. This form, too, is nebulons at first, very flexible, with lighter or clearer puritions which correspond to the development of my idea. I glance over these "high upots" from laft to right, helding them in mind while I fill out my idea, and fill in the did in intervals herewen the clearer points. The intervals are not necessarily taken in order, for, as my eye roves over the whole, I may "see light" (metaphorically) or sense a change toward devalopment in one part and eagle on that before it is too lats. Yet this whole form is vary indefinite, and hardly clear enough to dwell on.

Again (not uncommon after I have actually verbalized my idea into a few phrases or words which are my main points). there is a certain sense of a manuscript, or of material on a vaguely defined sheet or surface before my mind's sys. This mamuscript is usually all on one page, or surface (not as leaves in a book, though I can think of it that way) - on one surface because it can thus more easily be visualized as a whole. If the work is of any proportions, this manuscript is of necessity microscopic, to get it all before the mind's eye. On this manuscript, certain parts, such as the first words of aketchily defined paragraphs, stand out clearly, legible, yet not legible, after the manner of dreams of reading in which the printed matter refuses in the last analysis to develop into actual words. Yet in this schematic manuscript, the legible portions are in the form of fragmentary words or phrases, clurs to the major ideas of the whole. The intervening portions are blurred with nothing to seize upon-yet. I say yet, because there is a strange sense of being able to read this blur if I concentrate enough, as I seem to intend to do as I come to fill out my idea. I have a feeling that it can be deephered—not invented or created, but deciphered. This whole form disappears entirely as I work toward an actual writing of my idea, and any sense of its use is no longer present. Yet us I think at this moment of completing this paper, there is a dim sense of the words to come as spread over the sheet below and the next sheet, with much the same manuscript sense of underipherable blur which will evolve into printed (or typewritten) matter. One reason I prefer to write on the typewriter is that the form is more definite and precise, and, in a general way, easier to hold in mond.

Returning to the manuscript scheme, I may add that the manuscript words or phrases are either visual or snb-woal, and in either case mere pieces or outlines of words. They would be unintelligible if printed or spoken as they are, yet they are not nonsense syllables, but rather condensed or collapsed forms, as if I should write or say steige for unintelligible. It is as if I had a verbed or visual shorthand for rapid work, forms which can easily be translated into normal speech or writing, or easily developed into meaningful sound.

There are, perhaps, other burder-line semi-schematic, semianalogy forms. I cannot be sure of the reality of even those I have described. All I can assert is that there is a certain truth in what I have described, a certain approach to what seems to happen. The early forms, nebulous and vague, seem somehow primitive and vestiges of almost forgotten habits of thought. One might almost build up an evolutionary theory of thought from this feehing. The later forms, such as the manuscript scheme, seem more familiar, more mature, more easily analysed wet more artificially developed, as if I had used them more recently. I have a feeling that the more primitive forms, and even all these schematic forms, have almost ceased to function, as though I went more directly to my task without their use, and yet that they lie underneath as the painful letter by letter reading of my first school days has given way to my present rapid course over the page. Yet the struggle to express oneself is too difficult to be explained

away without some mention of the strawle to make a dumly conceived idea burst into the light of the right word. Be it word sentence, or whole easey product, there is something like nebulous void taking form, a growth, from gestation to verbalized completion. Sometimes one somes to watch the process objectively, again to struggle with it subjectively. The final product may surprise by its outcome. I have had a story end itself in an unexpected way, as though I had started something that grew of its own accord. There seem to be at the executation, elements which are more to be found. to be discovered, than to be created or invented. One seems to need an observant, examining eve for what appears, a critical sudement as to its use, a mind to will its development and appearance—and yet not exactly a mind to create it from itself. It is as though the mind were recentive rather than creative, and then were crained of what it receives

How depressing to see the nebulosity of the first vague conception still on the page, where words, words but reveal the failure rather than conceal it. Nothing I write seems ever rid of it except in rare flashes. Little that others write seems free from nebulosity. Style, I think, may be defined as the satisfaction from the clear idea, no langer veiled in the mists of a first hary conception.

CHAPTER EVI

RHYTHMS

RETTIME is one of those basal experiences with which even the little child has infumate acquaintance, but the secret of which the most profound seemins has difficulty in penetrating. There have been almost as many theories concurring the utilimate explanation of it as there have been theorist on the subject. That the experience of rhythm is very deeply rooted in the physiological life would be conceded by all. But it is another matter determining the particular mode of functioning of the nervous system that issues in the awareness of rhythm. Sectionately it is not necessary for our purpose to plunge into a theoretical discussion of the topic since our interest is mainly a descriptive one.

unterest is mainly a descriptive one to the rhythmic experience a succession of similar impressions is broken up into a sense of equivalent time-units, through varying stress objectively or subjectively insusted Attention is a pulsing or wave-like process and its finetuations may serve to transform any uniform sense of impressions into a rhythmic pattern. Variations in organic stress may function similarly. We may cite as examples of subjective rhythm the fich-toch, hole-toch, of the evenly vibrating clock or the patterned beating of the mechanically monotonous metronoms. Brythmic organization is more easily sessioned by suddory and motor sensations because of their flowing quality, but visual rhythms also occur when there is recurrence of given impressions in a serial presentation.

Comparatively simple rhythmic patterns subjectively initiated may be indefinitely complicated by the organization of patterns on an objective basis. Any method of breaking up a succession of not too different impressions into time-units may be used but the most common one is to introduce

1 See I. A Richards, Los etc., Chapter XVII for a stresslating

regular variations in intensity of stimulus. This is the device used in English werse where the time cattern is measured by so many accents per line or per stance. Other ways of maintaining verso-thythm are possible as, for example, the classic procedure in verse-making of stressing by prolongation of a vowel-sound rather than by accenting it. Keen sensitiveness to time-relationships is undoubtedly fundamental in ready initiation of rhythm and if the individual possess this, poet or musician may play almost at will with the qualities that set his measures for him such as accent or duration of tones. If organic or motor stresses are exceedingly strong the reader may on occasion find his own rhythmic set so out of harmouy with that impiated by poet or musician that only a particularly strong stressing of beats can get him in the proper pattern. Musicians and poets understand this and in their first measures permit themselves less liberties than they take afterward when they have confidence that the listener's subjective rhythm as set to enforce the objective one.

Rhythm may be accentrated by rune-schenes, the recurrence of similar gounds at given intervals, like bells chmung the hour. There is a tendency in reading to pause on a rune a pause which underscores, as it was, the metrical increment, and so permits at to echo its way into the reader's memory. Rines are "like mile-stones marking off unform diveness along the word-highway," but too great unformity as deadening and skilful handling of the pause imperative. The more auditory the reader the more chance that he may find runes too inestent to be pleasant, particularly if synchronized with the natural pauses.

Most of the literary quarrels with respect to rhythm are due to the complications of subjective and objectivelythms and the degree to which motor patterns need to be enforced by auchtery ones, or imming luns. A subjective rhythm of one's own sometimes makes it impossible to catch another's subjective rhythm that is only deficately etched on a verse, a remark that may serve to introduce the subject of our silve which depends so greatly upon individual rhythms. To ask whether each absence rightly be called poetry and to appeal in answer to some ready-made definition of poetry that includes in the term itself an implication of a particular pattern, namely, a metrical one, is not enlightening. To seek to determine what individual tifferences operate so as to produce different capacities to enjoy wide-range rhythmic effects would be most profitable. In any case, impressing upon a reader a delicately modulated rhythm largely subjective in nature is a more difficult matter than adopting the conventional means of stressing rhythm objectively by ragular accents and recurrent sounds. Various factors need to be comaidered in estimating which method is the more valuable in a given situation.

The configurationist's treatment of rhythm suggests possibilities of the same sort of laboratory investigation at that unitated by them in the field of perception and of productive thinking. Since the configurationist finds the real psychic unit in a pattern or whole rather than in isolated elements, it considers the immbus or troches or empact at sussting prior to the separate beats or stresses rather than built up from the latter. Modern poets handle their thythms quits in accordance with configurational theory, even the metrical foot is moulded by a larger rhythmic pattern. The hard mechanical scansion of earlier days has gone by the boards.

In analysing the differences between cadenced verse and drythmeal prose one should not fail to note three characteristics of the former: its visual form; its accommunion of the pause by means of the short line, and its utilization of a recurrent thought or mood-effect.

Says a strongly visual reader. "I recognize pocity by its appearance, not by its sound, its rimes or hythms." And abe adde that she can read a haif column of metrical and rimed werse and not recognize that it is verse if it be printed as ordinary prose. Many people could report similar experiences. Others when they chance upon "verse" pointed in prose-fashion may read on for many lines with a queer feeling that something's on foot, they don't know just what. Even the strongly auditory midrichan may had to eatch immediately this measure of the line without the visual signal. Actually, the printing of material in the conventional visual form of verse calls up, through long associative connections, rhythmic and poetic mental sets, which may enhance imaginative phasesing, or if used in sportive feathern as in "free verse

advertisements" produce a fusion of incongruous attitudes that is comic in effect.

There is another point of view from which different visual stance forms might be investigated; their effectiveness merely as visual stimuli. Most persons who have experimented with verse-writing know that it is possible to get carlously different nuances from the same poem by the way in which lines are broken up and indented. As an illustration one may cite Grav's manuscript copy, in the British Museum, of his famous "Elegy," wherein the lines following one another with no break give a very different effect from that obtained by the usual printing of the poem in stances of four lines each. Verying effects produced by various stanza forms are due, in part. to variation in the introduction of pauses; in part, to the shear visual appearance of the printed form. Even pictures may have a definite rhythm, be written in march-time or in waltz-time. Sensitive individuals are often able to identify the precise musical strain that a picture-rhythm gives them. Natural scenery also produces rhythmic effects. Often, of course, the actual auditory and motor material aroused by blowing trees and rippling streams or billowing surf gives this rhythm but it may arise from silent scenes, from the long quiet line of spacyons prairies or the short broken one of footbills.

The accentuation of the pause in cadenced varse by the use of short lines or isolated words helps to initiate a minjective rhythm, or to enforce the poet's own. Marguerate Wilkinson suggests that the pause also gives time for the development of latent imagery, a fruitful suggestion.

In any case we need to recognize the existence of pseudorhythms growing out of symmetry of liesign, emotional parallelism, the delicate balancing of moods as well as of phrases. There is such a subtle patterning of thought and feeling that mood-overtones, and sometimes auditory ones, are evoked so as to introduce harmony, as well as melody, into verbal music.

The following poem may, perhaps, serve as an azample of pseudo-rhythm. In the two parts of the poem there is the same emotional sequence although set in very different keys; there is slight verbal patterning; and little rhythmic regularity:—

INVISIBILITY

Black Butterfly, abon-eithed On the gold foam Of the breezes of the run; Suble blassom of addingst When crused fingers Tear at Time's curtain. And you occuped.

Is this the secret of Madness, Death in the sun? Hisck blossom of hell, Gone! Swept by gold breezes Into gold invisibility.

White Butterfly, raduant dancie Of wags, deriting To the alver radiance of clouds at world's end, Who shall tell Butterfly from cloud In the durance—

is this the secret of Bimdpess, Light broklering light? Radiant one, You, Lost in the dasale, Are you yourself still?

A poem is, in many ways, the finest possible example of a psychoc pattern in which the estemble determines each detail; it is no mere sum of its parts but as unique a totality as a melody. The more cumungly the design is etched upon each minuters detail, the more perfect the poom, and probably the greater its survival value. The suggestion that one can test the worth of our's own poetry by its "memoral quality is a recognition of the configurational aspect of a poem, since to the degree that superiennes is crystallized is it renumbered. Moreover, in the making of a poem every poet has experienced the mysterious tyramay of a cosmos "a-borning." Often a ghostily rhythm exchants words from the "deep well of the unconscious" or invention is fertilized by the potency of a rift in the design which demands closure.

Literary critics have two things to say concerning the relation of rhythm and emotion. Sometimes they emphasize the statement that the natural expression of the smotions is a rhythmical one; at other times, remark that rhythmic expression itself induces emotion. Both statements are true. In all emotional states there is an heightening of organic stresses which would in itself impress a chythm. Most of us know at first hand how we may get a rhythmus set from a strongly besting heart and how our mental swape is determined very often by the rapidity of the pulse.

But rhythms originating from outside the body may imitate the organic ones and so take on emotional coloration. The therapentic value of both music and postry is in part to be explained by their mutiation of southing organic rhythms. As for myself a slow regular rhythm induced by listening to dove groy music same gradually retard the organic sample set by a very rapid pulse.

Rhythm is one of the hypototic devices of poetry; prolonged and accentrated at may in time produce a fatquing of the attention; full emotion, and cause a mental relaxation, the character of which I shall discuss in a later chanter.

CHAPTER XVI)

THE LOGIC OF THE EMOTIONS

STATISTICS constimes tell strange tales. For example, Dr. Anita M. Muhl, analysing, as a psychlatrist, America's spicide problem. has ventured some curious conjectures as to why San Disgo, the heautiful city of the perfect change has the presented micide rate in the United States, twice as high as that of New York with all the terrific pressure it brings to bear moon its inhabitants. It is, Dr Mühl asserts, not chance that this should be so, nor is it to be attributed to the stranger in the city's midst. She writes, "It must be obvious that this immains off place of the United States holds a death-lare for individuals with regressive tendencies who have found it impossible to adjust themselves at one level or another " Her explanation of this death-hare is in terms of the symbolium of the West Coast and of the Sunset. "Since earliest times the Sunset has stood as the symbol of death and the West twoifving the land of the samet is another expression of the nation thing." Dr Muhl claims that actual analyses of persons who have attempted self-destruction confirm the belief that the Sunset is a death symbol.

who have attempted sear-centretes commin has been told for the the Sunset is a death symbol. One feels that the whole story has not been told for the West has symbolic possibilities other than those cited above, but the attempt to psychosmalyse the poetry of places as novel and suggests fascinating possibilities in the way of discovery of the secret spells cast by glamorous cities or dark continents.

In a world that the pressure of existence has made unduly objective-minded and utilization in tumper, certain subliction of the emotional life? have long camped that contemplative has energy Granter Stands Problem," Producted Sec. Vol. 14.

 1927 . This example of the state of the sense is the sense is tradement of montant into any connection whetherer. The saidor, bewerer, has faith that experimental methods when extended to

treatment as necessary to satisfactory understanding of them. The logic of things and of the relations of things has developed regidly, becoming continuously more and more mathematical and precisely prophetic, but the swervings of the emotions have been side-tracked by science, often under uncomplementary names, such as, biases, fallacies and the like. That the mental processes labelled thus uncompromisingly deserve better treatment at the hand of science has become evident and ingic itself has become preoccupied with the emotional life and its curious ramifications. There are usychologists who procising the existence even of a logic of the emotions, of emotional constructions that follow the old lines of abstraction and generalization land down by the writers on orthodox logic but which issue in determined lines of passion and of emotional concinsions.

It is with the milder forms of the emotions, sometimes called pseudo-emotions, that we are primarily concerned in literature, Complexes of feeling toxed by varied organic fusions; expansions and prolongations of emotions in moodovertones, distillations of sentiments, which have been defined as organized systems of emotional dispositions centreing about the idea of some object, shunting of an emotional tone from one situation to another; these constitute, in part, the material of literature. It has been suggested in a previous chanter that the mechanism of the conditioned response may be invoked in explanation of such playing with the emotional life by poet, novelest, and dramatist. To repeat, at present one can do no more than state the principle in general terms : details evede us and will continue to evade us until experimental technique acquires greater facility in handling deheate situations.

The conditioning of responses through the association of

emotional attackines other than the truder once now exploited may explain many subdeture of the excitation resortion. Furtherizing promising it has beenful supported they original epociations and visually tensors may come to indicat allower any mental state whatever. That even defense reactions may come duty be handled experience. That even defense reactions may some day be handled experienced to the property of the contract of the property o

stimuli leads to curious projections in consciousness of organic sensations and visceral tensions, accompanied by affective spread or transfer. An emotional tone may be diffused over all the elements of a situation and details that were priginally indifferent become "affectively loaded." This is a common experience of the sentimentalist who finds faded flowers, scraps of paper, and tombetones saturated with emotion. That some individuals are more subject to affective spread than others is a commonplace among psychopathologists. Whole realms of activity may become emotionally "tabu" because of an unpleasant consequence of an act. One's first experience with a telephone of it involved news of a death pught give an unpleasant toning to the sound of all janging bells. Frequently a person who irmes bad news becomes associated with the news in such a way that he takes more humself as a strumbus some of the diffused emotion. Moreover, there is relative detachment of feelings from their natural objects since there is a disposition to shut out of cousciousness the objects which aroused them and they become "free floating affects" ready to attach themselves to stray percepts or ideas. In such a way symbols come into being, The most of many a lyric would, indeed, seem to be a disembodied emotion that, largering on the outskurts of consciousness, suddenly materializes itself in a flower seen by chance or in a stray performs or song which then serves as a medium for communication, a symbol of a subtle meaning.

Freud has shown that the trivial incidents of the day preceding a dream play a predominant part in the munifest dream-content because they have had no chance to become deeply woven into the associative tissue of the presmal life; o, too, porties symbole other than those which have become conventionalized are often in themselves trivial or bustre, qualities which fit them for the assumption of countrative functions. The point of crystalluration for a poetic emotion is often in itself as imagnificant as Wordsworth's dany or Blake's little fly; but the wandering and immeless emotion more readily enters the empty chamber. The vague surge of passen or desire saddenly transfers a leaflest tree or a ragged nest and finds there as habitation and a name. Recentl's

poem " The Woodspurge " shows us such poetic symbolism in the making :—

"My eyes, wide open, had the run Of some en weeds to fix upon: Among those few, out of the tun, The woodspurge flowered, three caps in one."

Certain dream symbols appear to have a more or less universal significance although it somewhat puzzles the uninstrated to understand how a symbol can acquire meaning except through emotional conditioning by each individual Much poetic symbolism is obviously the outerowth of muraly subjective experience on the part of the root. A stereotyped symbol may be used again and again, thus Blake's symbol of the Lamb which recurs so constantly in his poems, and his image of the Tree which perhaps suggests the tree of good and eval. The poet may employ these symbols as simply and spontaneously as a child, or he may adopt with deliberation the symbolic language of a legandary cycle. Perhaps ha chooses the Arthurian legends or the Norse myths, or those of classic mythology or of Irash folk-lore as carrier of his meaning. The difference between a spontaneous and a souhisticated use of material is clearly enough evidenced by a comparison of Blake's poetry with that of Yeats'.

Can memory, it has been asked, reinstate an emotion as emotion, apart from the situation that in the first instance intraished it an excess for being? Can one recall the passion of anger or of love with no recall of an object of the passion? Are there evanescent returns of amotion, echoes in consciousness of emotional expensions wherein the cognitive element that gave the experience body has passed away leaving behind as the soul of the expension a tender exhalation, a spiritual fragrance, distanced, distanceded? Practiculty it would seem that such is the case although one cannot affirm the loss of all sensory content. It may be that organic or kinsesthetic content is essential to emotional memory.

One may not be able to recall voluntarily all the tremore of the emotional life; to feel, at will, fear and grief, gaiety and architaration; yet one's power of recogning a likeness to an old emotional experience in a new one differently conditioned testifies to the relative detachment of the emotional

factor. The shiver of the spirit with which one contemplates an old bearded pine on the windy side of a bayren hill is akin to that which shakes once beart at secing some aneant Lear driven from the house where love abides not. The motheriness of outline of trees against the windy skies of March awakens a familiar warmth of feeling.

Every sensitive mind can testify to the presence in his life of subtle overtones, of feelings that play fiffully about the events of the day and at its close furnish him his only options of the experience. No remembered image of the spring right has been garnered, only a mood of delicious restlessness, of varues association.

But the existence of emotional memory and of emotional abstracts does not exhaust the possibilities of the emotional constructions of experience. The emotional abstract once made, a peculiar tomas isolated and recognized, may fuse with other abstracts as do rational abstracts. Emotion and emotion may flow together and constitute a conceptual experience which may subsume under itself other emotional experiences and thus systematize the emotional life of the individual as his intellectual life is systematized by the maxims of geometry or of physics that he accepts as axiomatic. The emotional concept is the arbiter of destiny! War-the breathless beroism, the glorious sacrifics of self for wife and child and country | War-the despoiler of homes, the rayager of women, the brutalizer of men! Whichever feeling-tone colours the word determines our actions. Cults and creeds are only words dipped in the emotional life and rendered invulnerable and sacred through the accumulation of sentiment, hence the troth of the apparently paradoxical statement that words use Men rather than Men, words. The saturest has shown how even plain newspaper editors borrow prestige from words when they name themselves. The World, The Sun. The Voice of the People. Always, thereafter, the Editor speaks with authority in the column sacred to him although outside of it he be a very commonplace gentleman indeed

The organization of incheate feeling into mood-complexes is characteristic of the artistoc temperament. There are all degrees of comprehensiveness of synthesis from the elaborate mood-organization of "The Tempest" with its rich overtones and chural harmonies to the simple melodic pattern of Rossettis "Blessot Damosat" or the lovely mood-values of a rainy day or a wanter saurise. These emotional attitudes constitute a rich material for literary creation and appreciation. The dawn-feeling, the moods of dusk, of hift-tops, and of notum rain, the exquisitely differentiated moods of the season, are module organizations of the emotional life.

How haunting the moods of places (The merest hint

"To the glory that was Greece, And the grandeur that was Rome."

A catalogue of proper names may serve as a geography of the spirit. Ravenna, Venice, Capra, Avignon, Cairo, Karnak—how inevitably the speil works 1

In the atmosphere story we find the most delicate exploitation of the mood-complex. A false word, a manne off-tont, and the cloud palace is disadved us by the waving of the wand of a trickey spirat. All constotation is the outcome of emotional synthesis, and, as we shall see, figures of speech are largely so motivated. Always, for purposes of communication, the mood construction must be given as habitation and a name, hence the imaginal texture of most literature.

We have already discussed irradiation of emotion but one further use of it must be stressed. Novelist and poet use this principle for contrast effects. They set a dommant emotional tons that prevails and introduce with this as a background other emotions that intensify the primary tone. The more skilfully the artist can play passion against passion and yet maintain amotional unity the neher his art. The abunting of emotion from one situation to another is the secret of the poet's maric alcient-of-hand. Often the mood of a title colours a whole production. Under another title and setting the nordld incidents used by O'Neill in his play "The Moon of the Cambbees" would impress us as ugly proce rather than as anbtis poetry. Tempyson has manipulated " affective serend " most skiifully in his "Lotus Esters," the first part of which initiates a mood of complete relaxation, of drowsy acquiescence. a mood which carries over and accentuates the hitter denumciation of the indifferent Gods in the latter part of the poem.

Carl Sandburg handles emotional contrast by almost brutal

juxtaposition of differently kayed situations. In "Limited," over the laughter of the riciers on the cruck-train float realization of tragic futility, the nothingness that is the ultimate goal of all travellers. In "A Rence," dwellers on the Laka Front make a crual masterpiece of iron bars and steel points over and through which nothing will go "except Death and the Rain and To-morrors."

Emotional irradiation explains, in part, the extraordinary effectiveness of Strindberg's "Dream Play," in which he has recoeded in fusing dreamliteness of atmosphere with a bratality of detail that gives a sense of creative fusion, of cosmic mystery, of spiritual reality.

CHAPTER XVIII

THE METAPHORICAL CONSCIOUSNESS:

ONE of the greatest charms of style is its employment of figurative language, its use of apt comparisons. The delight in parable and allegory, in table and metaphor, characterizes the modern as wall as the primitive mind. From the psychological side we have the substitution of one image or meaning or extuation for another Sometimes as implicit substitution runs through a story and we have an allegory as in "Pilarim's Progress"; sometimes a deliberate comparison is initiated as by Matthew Arnold in "Sohrab and Rustum" when, for example, the young prince is likened to a cypress that grew in the outen's rarden, tall and dark and straight. Sometimes the substitution is a swift and unexpected identification of two objects of thought as in a descriptive bit of an automobile ride at midnight which runs; "The car purred with the contentment of a great house-cut and lapped up the shimmenne. road like a stream of milk "

Rhetoricums have long rejoiced in minute study and classification of figures of speech—a process that seems productive of little class than weariness of fieth and vaxion of spirat. Recently it has been realized that from the psychological point of view a study of such figures is most promiting. Here lies a ruch field waiting cultivation. In the comparison we find kleas in the making, we mapshot much engaged in its curious labour of substitution and identification, in its effort at emotional articulation and emphasia.

There are two ways in which one may approach a study of figures of speech. Our may investigate the general motivation of the process or one may enter into detailed analysis of

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the various mental processes involved and determine the variety and extent of the figure-making consciousness.

In general pattern, the figurative consciousness recalls the substitutions that occur in dreams and in hallmeinstions. Much that we read of dream-symbolism could be applied to poetic symbolism. Dream-symbolism, as investigations have shown, is a translation of content elaborated outside of consciousness—perhaps in the deeps of the unconscious—and emerging an transformed that the original is not always evident. The underlying motives are intimately related to deep-cated impulses of the given personality.

The substitution occurring in dreams is often cryptic in nature. The underlying meaning can at times be penetrated only after the most far-reaching analysis, an analysis of the intimate life of the dreams. Literary or poetic symbolism must be more obvious in nature she the poet's songe would be sung for his ear alone. Yet, too, the allegories, the metaphore in which he delights must, for the most part, well spontaneously from his synth and to must trust to their appealing to those among his readers whose life of instinct and emotion is similar to his own. This basal similarity in the instinctive and temporature and temporatural life constitutes antive rapport.

Substitution of one mental object for another is then basal to the figurative consciousness. Before we proceed to discuss the details and varieties of this process, let us ask only the mind indulers to substitution

Freud sinds the motivation of dream-distortion in an attempt at psychical disguise. The mind receives gratification of consured decires by masking them. Prince i must that literary symbolism must, in general, he created by contacions selection of associations, since the writer can result rejected material. No doubt, however, instances occur of interary constructions constituted quite in the dream-fashion, and quite likely expressive of the latent wash. Usually, the determining motive is the desire for movel expression, particularly of emotions and subtle conceptions.

In a technical study of the subject, we would need at this point to question in some detail the operations of associative activity. Two remarks only may be ventured (1) In the

³ The Unconscious, footopte, p 202,

work of mental construction the most delicate of relationships may serve the purposes of transition from one idea to another. and through divergent associations the most unexpected and original of constructions may arise, with condensationvoluntary or involuntary-carried out to the last degree. The greater the condensation the more intense and poetic the identification or metaphor which results. (2) In emotional excitament the associative range may be greatly extended, with chance for the most hisarre and subtle of combinations. regulated by emotional congruity alone.

As an example of substitution in general let me quote certain of my notes on dream-substitution :-

" It is night on a B. and O Pullman. The road-hed is very rough. I swales audiently from a drawn of a great black chapgy Newfoundhard dog which is lying upder my bod, shaking with the stress heaving from add to ade, and growing hazasaly neaswhile. Waking, I rasher that the threshing and growing of the dog rose perfectly with the roll and ramble of the tran-Moreover, on next seeing a locomotive, I notice what an excellent substitute for it the shaggy dog was."

A second example instances a more subtle substitution :—

"I am alseping m a San Francisco hotel on a noisy street.

corner Opposite the hotel is a garage and, along the street, a car-line, with can passing at intervals.

"I drawn of a host of soldiers marching past the hotel, that is, in my drawn I hear the trampling of many feet—not, however, the even beat of tramed regiments on the march 1 ever, one even even or practice regiments of use marcha of dream I go to the window and book out. Lose heels of men and boys marching down the stored, dreamed in all manners, many of them in rags and attants, others in antions but carrying weapons of every description. 'Ob, they're raw recruits,' I say, in amplication of their unovers irregular reamping.'

In this example the rarged line of men and boys, with the motiley of garment and weapon, is an excellent substitute for the ragged pregular street noises, with which it appears to fuse perfectly.

The next example is a substitution in a waking state, the motivation of which is literary :-

"I am out in the dusk of a California night. Around me on bushes, and above, decoping as great garlands from the roots of the houses, is a profusion of white roses. Suddenly, I am. arrested by their lummosity. As the dark dans the outlines of all the world beade they grow an intenser white; they glean phosphorescent in the dank. They create a poetfo mood, those water cross—I am restless with hongon to express their leveliness. The narmstron of scarce and sport would crystalize. How? In a fagure? A poeur? Suddeauty the mood of the moment identifies shell with the moot that belongs to my isolang for grounds, lovely such bourseless wanderers. They are not longer roses—those pleaning white flowers—they are plantones of desire, galant of all things lovely that were any plantones of desire, galant of all things lovely that were of the stans blends with the mood of roses; the dask deepens; the tense took detailed.

Let us pause a moment to note some differences between this substitution and that of the dreams quoted. In the first dream, given suddivery and motor sensations adopt for themselves an explanation other than that of the real object. The whole movement of consciousness is definitely related to that involved in the constitution of an illusion. The senselly fish roll and the actually keeps growt are interpreted as due to a dag under my bed rather than to the movement and noise of the train—a simple illusion. On waking, the fusion of NewToundland-dog-consciousness and the bonizerous-trainconactousness is found pleasing, satisfactory. In the second dream, ragged noises transform themselves into an image of soldiers in motiey array. The substitution sceme highly appropriate to the waking consciousness. The shift in the image has definitely excluded the meaning.

In the substitution of phantoms for roses we have a somewhat different condition. Here there is no fusion of sensations; the roses are not perceived as phantoms. There is no shift in imagery. The mood-background is the common element.

It happened, however, because of my interest in figures of speech, that I was not content with a fusion of moots, wondered if possibly the white roses might actually shift into something else at the perceptual level. With this end in view I deliberately dwelt upon the mood-complex many times, visualising the roses in the dusk. And once a spontaneous substitution occurred. Suddenly the night, dimly seen as awarthy and voluptious queen, was wreathed in the leveliest of milk pearls. Curiously enough, the substitution, while satisfactory as a substitution and quite in line with dream-substitutions, was not in harmony with the mood-tone of wraiths and dim desires. This substitution was sensorous, rich; not spriritual one shot web faint staright.

From these examples we see how complex a matter the substitution-consciousness may be. To bring out further additiution-fredering to it, I may summarize certain experiments upon it. At times, I requested my subjects to read silentity poetic fragments, chosen because of their figurative language, and to report their reactions; at other times, I read the fragments aloud to them and transcribed their oral reports.

Several reasons for variation in report are notinsable. In the first place, explicit substitution of one mental content for another course much more frequently for some reagents than for others. And event when the substitution takes place variations are noticeable as to the dayres with which the two contents fuse, or coalesce, into one rich meaning. Substitution may be merely mechanical and result in incongruous, even brutal, juxtaposition of mental objects, or it may be ambite exchange fluminated, short through with the magic light of poery. Obviously, readers of the literary temperament will stand out against those of a more matter-of-fact mental type. The reactions of both are of reset intreest.

In the second place, it is very difficult to watch the play of the mind in a subtle and evasive act. Investigators of the figurative consciousness realize the need of utilizing trained subjects who are used to catching psychical butterflies on the wing. Even so, the experimental attitude rules the bloom of exhibition experiences. A purely analytical attitude may defeat the end one has in view. Moreover, the figure often gains its force from the context in which it is set. Fragmentary presentation is bad. Not only the reader and the method of eliciting the report introduce variation in response but also the nature of the figure chosen is influential. The psychical reaction to the smile is very different from that to a metaphor, or to a pseudofication. The hyperbole reaction has a psychic coloration all its own

Let us list the questions we had in mind in carrying out the experiment on similes and the answers given by previous investigators —

(x) In what psychical terms are the two portions of the comparison apprehended? Have we, for example, an unagunal

representation for both the main and the accessory portion of the metaphor or for one part only? If the latter be true, which part of the comparison gives the image? Will the reactions of a number of subjects be consistent in respect to this point?

- (a) If both parts of the comparison be represented, what relation holds between the parts? Is there mercly a displacement of one content by another? A displacement to final that there is an actual canditat, or change in meaning? Does the image of the literal portion of the simile melt into that of the figurative so that a complete flusion, a coalescence results?
- (3) In what relation does the double mental content stand to the complex out of which the two thoughts come? What constitutes the background that lies above and around and below the specific meaning? Or may the two meanings fail to have a common background?
 - (4) Does the point of comparison come to consciousness?
- On general grounds it has been conjectured that too minute, too precise unaginal accompanionent to figurative expression would often be embarrassing. Sensious translation of a figure may emphasize the difference between the objects compared and thus destroy the unity of comprehension necessary for artistic appreciation of the figure. This conjecture is supported by reports on the imaginal reaction to poorty from which it appears that readers with a habit of concrete visualization find many similes and metaphors distinctly grotesque. Even such a simple departure from the literal as in Galsworthy 6 me:—

"Wmd, wmd, heather Greey Whistling in my tree "

is found unpleasant by the visual reader who resorts to concrete picturing of a gipsy. But the word "gipsy" as a carrier of a delicate emotional and attitudal reaction results in delightful appreciation of the poet's meaning.

An attempt to determine in some detail individual differences in the reaction to the simile has been reported by Karl Groos. Gross cates PRas's criticism s of the imaginal theory

^{1 &}quot;Des Anschaulsche Vorstellen beire postusche Gleichmis." Zuch f. Assib., Vol. 9 (1914), pp. 185-104
3 "Des Gierchmis in Ernschlen der Dichtung." Verein deutscher Philologen is Schulmkinner im Basel, 1967

of the simile and Phuse's conclusion that the value and purpose of a poetic comparison are not to be found in the arousal of a visual image but in the creation of a "Gasamiroralilang" common to both the principal and subordinate object.

Gross, in turn, calls attention to individual differences in reaction and the probability that imaginal comprehension may be potent, at least for certain readers. But the imaginal form need no. be visual in every case; tactual, anditury, kinscibetic material must also be recognized. The conscious attitude which is the common carrier or background for both the main and the metaphorical presentation may, moreover, be intellectually coloured for some readers; emotionally coloured for others. The conceptual and thought side of the metaphorical consciousness must be emphasized us well as the sensonna sensor.

Specifically, from the reports of his subjects, Gross found five different possibilities that might arise in the maginal comprehension of a poetic comparison: (1) the imaginal experience chiefly concerned with the main object. (2) the imaginal content largely concerned with the figurative portion of the comparison; (3) an image for the principal object only; (4) in imagin representation for both parts of the comparison maginal representation for both parts of the comparison maginal representation for both parts of the comparison anamang preponderance of imaginy for the accessory or significant proposed about in the other eighty-two cases of imaginal representation only one is that of imaginy of the main object about in the other eighty-two reports there is evidence of reconcentration of the accessory other in some form or other.

Cases are cited where in the imaginal representation of the figurative portion substitutions occur or details are added in such a way as to disturb the value of the figure or to cause a concentration on the figure for its own sale. Possibly the background of the accessory image may differ in mood-tone from that required by the man element. The mind may, however, includes in detours and irrelevancies without loss of systhetic empoyment. Gross found that most of the reports of viral images y wave of clear and individual images.

The presence of imaginal representation for both parts of the figure was found in certain reports to diminish the setheric unity; the oscillation of the images destroyed the feeling. In other cases this double representation was pleasing. It is impossible to determine from the material at hand under what conditions this latter effect resulted. Possibly, faint images was conducted to pleasantness; the varial images because of their weak determination might flow together into a "Gasantendenck," or total unpression; "a shadowy something footed up." A minging, a melting together of two vagoe images into one, talminers the sethetic pleasure.

Let us take an analogy from the photoplay. The pictures of certain reagents replace one another as crudely as did those of the cingmatograph of saniter years. One can almost bear the whir of the machinery. For others, the successive pictures dissolve, net into one another, with the exquisite modulations of the artistic photoplay of to-day.

It is to various degrees of the bisuding of object and image that Sterenger has recourse in explanation of the sub-thir value of different metaphorical presentations. His investigation of the various factors contributing to the sub-stitution-consciousness is probably the most thorough-going treatment at hand. He instances various forms that substitution may take, namely, oscillation, simultaneity, and melting tegether of two images. The process is complete when a new construction comes into existence. The object is no longer seen as such but as a second; there is a unloan of payohar elements giving a product with new qualities.

Substitution, or a displacement of one image by another may, of course, take place in regions other than the visual As a peculiar instance of such substitution Sterninger chases metaphons in which images from different sense-provinces into (meit) together. The basal presentation, for example, and the image of comparison may belong to different departments of sense. Such metaphons, which are synasthetic in origin, we have already discussed in another connection. They fornish, however, a most valuable material for exploitation of the figurative consciousness, and are increasingly frequent in the new laterature.

Let us turn now to our own experimental results. In

¹ " Des Gründe des Gefallens a Mingefallens am porturation Bilder," Arch. f. pss. Psychol., Vol. 29 (1913), pp. 16-92.

many respects the reports are much like those collected by Groos. There is, however, no cose of excessive prependentance of imagery for the metaphorical part of the figure, a result which doubtless was largely determined by the nature of the reo similes millised in Groot experiment.

Let us take first the Homeric simile of Arnold's to which we referred above :---

" For very young he teem'd, tendenly rear'd; Lide some young cypures, tall, and dark, and straight, Winch in a queen's secladed garden throws its ship tark shadow on in the monoist terri By makinght, to a betbling fountain's sound—So risoder Solumb seem'd as optify part'd."

Here the comparison is made with otmost explicitness. On the one hand there is the prince; on the other, the cyprent to what the prince is lineated, What do our respects do with the figure? This simile is one that lends itself so readily a magmal representation that rich imagery—vanual and auditory—is reported. The majority of the respects visuals: both the princes and the cypress but in varied relation. Both may appear in the garden sude by selfs; there may occur an oscillation, the prince vanuabes as the cypress appears; a few report a blanding of images. The image of the prince melts into that of the dark cypress. For almost all respects the garden background is present in full richness; there is the sound of a formation and the models through the moderation of the prince in the sound of a formation and the models through the models.

Or take this charming bit from Shelley :-

"The plumed meets swift and free, Like golden beats on a sunny see."

One conjectures that for the post writing the lines the insects (not too precisely determined entopologically!) are winging their gladeons flight through the summer air. Sudienly, there is an intensification of the golden sunshine and of the bithesome rocking of the insects and lo! they are insects no loner but rodden boats on a surroy sea.

What now does the appreciative reader do with this simile? Let us first emulate the statisticians and cite a few figures. Of twenty-six readers sixteen image both parts of the simile; few image the first part only, and three image the second part alone; doer reader is so obsessed by the numic of the words that he is occupied by this melody to the exclusion of all else

Certain comments are instructive, A few readers are intellectually disturbed by the word "planned," the apprepriateness of which they question. Eight readers report a break in connection between the two parts of the figures; the boat-inset, although obseunt is irrelevant.

Others give a complete replacement of one mental object by another. The insport weakly and golden boats appear on a realistic lake. Perhaps no point to the comparison is realized. The only persistent content is the thought or feeling or seasonous image of a summer day. But there are reagens for whom the point of comparison mirrors itself in consciousness was definitely in the minusincation of the golden colour in insect or boat or air, or m the deepened sensation of the swinging movement. For such readers the consciousness of insect and boat may time our feethy.

One of the interesting mechanisms of dream-fabroation is that of compression, a packing of an image with meaning; its so-called over-determination. In poetry such packing of the image is evident to the highest degree; there is multiplicity of meaning, as in Thompson's one-oning versue of "The Poores"

"Summer set by to earth's houses bare, And left the final'd punt in a poppy there, Lake a yown of fire from the grass it came, And the faming wind build it to flapour flame

With burnt mouth red like a hou's it drank. The blood of the sun as he slaughter'd sank, and dipp'd its cup in the purparate shine. When the seators conduits ran with wine."

Only an intense imaginative response to these lines brings approximation. A reader scanning them with an intellectualistic set of mind is builled, confused, unritated.

Our third report upon experimental reactions to a figure of speech, concerns a metaphor in which compressed, condeutation, is carried much further than in the Arnold or Shelley simile orded previously. This two lines to be quoted constitute the wholn of the poem, one by Ezar Found, a poem which illustrates Found's own definition of the image "that which presents an intellectual and emotional complex in an instant of time." The poem, "In a Station of the Metro," follows:—

"The apparation of these faces in the crowd; Petals on a wet black bough—"

It is not surprasing that this closely packed figure fails to appeal to some randars; nor that others realize its charm only on re-reading it. But when the suggested fusion occurs the randar is submerged in that feeling of poetic beauty which is one of the mysteries of experience. Innumerable pale faces in the dusk of a dim cavers sucketsly whiten, blossom against a blackness that shivers with subiritizal desolution.

Let us consider another poem of to-day, "Lost," taken from Sandburg's Chicago suite, a poem chosen because the comparison is deeply embedded in the man image and because the emotional coloratom throughout as in such harmony with the sensions intention of the first two lines.

"Decolate and lone
All night ining on the lake
Where fog trails and must creeps,
The whathe of a beat
Calle and crees weredugly,
Lake some lest child
In tear and trouble
Henting the harbour's breast
And the harbour's pe

Comparatively few subjects image the child vasually, a reaction that is, indeed, full to be somewhat grotesque. Perfect fusion on an auditory basm may, however, cour; the whistle of the boat melts into the wail of the child. The most commonly reported reaction centres about organic and emotional experiences with perhaps vague visual gimpes of the dim lake and the lost ship. The "lost child." feeling coalesces so perfectly with the emotion aroused by the lines preceding that the lunes are site to be exceedingly affectly and the coalescent of the c

These examples—chosen from many—must serve to illustrate the figurative reaction. It is obvious that we have but touched upon the general problem. Not only variations in reaction as we pass from reader to reader warrantees in reaction but also variations in presenting the figure, whether it precede or follow the main portion of the comparison, and the degree to which it is telesconed.

Queled by permanen of Henry Hult & Co. from Change Posses

We have seen that the background out of which come the main and the accessory part of a comparison deserves especial attention. This background is in part conditioned by the whole production in which the figure occurs; in part, it is determined by the specific attitude or purpose of the reader at the moment of reading.

One may, perhaps, discriminate three possible kinds of background, one of which probably predominates in a given case. The background may be senguous ((maginal) or emotional or intellectualistic. Two visualizations may have a common setting : both Solgab and the cypress are seen in the midnight carden. The background may be emotional: the lost boat and the lost child belong together in one's universe of sad things. The background may be intellectualistic: the point of comparison may come to clear consciousness as in an analogy. As A to B so is C to D. The similar relationships between the two parts of the analogy may be focused. Such an intellectualistic background may include critical ducrimination with a sense of the inadequacy of the figure. Such a background is often evoked by the experimental attitude. My reagents remark on occasion: "The comparison is far-fetched; insects aren't boats," stc.

In any case, the explicitness with which the point of comparison comes to consciousness is a matter of considerable importance. In the imaginative reaction I am inclined to behave it rarely enters as a distinct sense of relationship. If one review the situation retrospectively one can determine the point of comparison and pass upon its value but in a literary reaction it remains in the fringe or contributes an amothonal tone of appropriateness, of fitness, without being focused.

When brought into clear consciousness the point of compartson is often found to be double or triple. Thus the metaphor involved in the posm, "A Station in the Matro," is found to be highly compressed. Readers agree on two points of comparison; the multiplicity of faces and of petals, and the contrast of the wan faces and white flowers with the shadowy background.

Frequently, however, the failure to get a postic background is shown by the irrelevance of the point of comparison that comes to consciousness. In nothing more than in this is the difference between the poetic and the presale attitude manufest. For the former, there is a tingling subconsciousness of meaning, images, emotions; a rich complexity of feelings concentred in the figure that synthesizes the whole, that crystallizes the saturated solution. The presale reader pounces on the comparison as a thing-in-itself zero background. He may pouzle over a purely irralevant relationship or analyse with annued discrimination the curious juxtaposition of things so utilize as the sound of a voice and mission frantiare but he fails to make the synthesis that was the figure's reason for beins.

Always, of course, a simile or metapher must be estimated psychologically, not logically. Its value lies just in the union of things apparently quite heterogeneous. Unity arises out of the consmousness of difference, hence the creation of new mental content. It is a turning from the straight and narrow path of logical recitude; it is meant to be. Its pseudiar tang is the outcome of its aroused of a double meaning, with the quivering tension of an unsolved problets.

From the psychological point of view, metaphors might be classified relatively to certain characters of the point of comparism if the main object vanish from consumenses with the presentation of the secondary object of thought, this latter mage may then be very freely decorated with no regard for the point of departure. This gives us the discursive or holoday comparison which Eastman describes so aptly. Or the main object of thought may persist with the presentation of the accessory image; a return to the original object may call forth new images with a heaping up of comparisons. The point of comparison may shift as the figure develops. The explicitness with which the point of union comes to consciousness determines whether the point of union comes to consciousness determines whether the point of union comes to consciousness determines whether the point of union comes to

A number of tryics suggest themsalves as worthy of further study. The development of the figure-making consciousness in the race is an important chapter in the history of mental development. A discussion of this topic would take us too for afield. Naming an object is in itself a comparison, a

² The Engoyment of Peetry, p. 63

latent identification. Prose is, in very truth, " fossil poetry." In the primitive metaphor, fusion is complete for the early comparisons are expressive, not literary, devices. Probably no break between the objects compared occurs; there is no conscious distinction between figurative and literal manner of speech: the comparison or simile is felt to constitute an explanation by means of which the primitive man prientates himself in the objective world. In such instances the metanbor is practically motivated, just as in more developed minds it may be employed to clarify an idea or strengthen a sensuous impression. Still more closely akin, however, to the primitive and child consciousness is that found in cases in which the emotion gives birth to the metaphor, when the white fire of passion fuses objects otherwise divorced. This fusion is very intensive in the primitive and child mind, and in the poetic frenzy. Hence the metaphor which identifies is much mure poetro, because much more highly fused, than is the simile which merely asserts a similarity. Thus we end where we began with the conception of the substitution—consciousness as basal.

Sterringer's mwestigation showed that substitution (Unstancialousg) is a dominating funtur in authority pleasure. It is a principal moment in all art as well as in poetic metaphors. In Japanese art, for instance, "Unterschiabung" with reference to colour is a common device. No doubt study of certain modern artists of Europe and America would show curious displacements of elements operating both in imaginal and perceptual constructions. New authority modes or feeling-tones may arise in consequence of substitution. The feeling forth through the union of two images, neither of which would in itself give this feeling.

CHAPTER XIX.

THE CARTOONING CONSCIOUSNESS

METAPHOES in murble are not uncommon; one recalls, for example, Rodin's " Hand of God " Nor are marble metenymies unknown. In fact, many of the currons distortions that are found in modern art may be interpreted in the light of what We know about the psychology of figures of speech, for figurative expression, in literature and m the pictorial arts. has a common significance, a significance explained by the fact that the mind creates its own shorthand and multiplies its own increglyphics. In the procedure chapter we have surveyed the metaphorical or dual-meaning consciousness which is the fertile mother of new meanings. In this chapter we shall consider the play of consciousness which issues in such mental patterns as those of hyperbole, or those of mateuvmy or syneodoche, in which selective attention plays a salient role. The part is substituted for the whole, or an abstract quality or simple attribute is allowed to represent a concrets object. Meanings are shuffled like cards. It suffices to say "Virgil," though you mean "The Encad": to substitute "gail" for "ship," Thinking is very definitely a short-circuiting procedure and when the telescoping takes place in unaginal form some currous mental constructions may somesr; the parrowing of consciousness with a subsequent elaboration of whatever is at the focus may lead to grotesqueries.

to grotsequeries.

In the metaphorical consciousness there is an enlargement of the field of attention, a juxtaposition of two or more objects or attentions with a subsequent fusion which enriches thought. In the curtoming consequences, on the contrary, there is an obsession—offen emotionally conditioned—by a fragmentary aspect to the exclusion or subordination of associated aspects. Selective attention appears very early in imaginal representa-

tion. The cartour motive is frequently evident in viscalizations of persons. All details may hade from a remembered face except a pair of squinting eyes or a rocked smile or a hooked and on a hooked and continued the masterial nose. Salient features are seized upon and magnified just as they are by the newspaper cartoonist whose stock-in-trud includes Cargantum heads, prolonged smiles, thunderous frowns, and whose success is measured by the degree to which be fuses his selected feature with a dominant contion of the public.

One method of emphasis illustrated in a preceding chapter is that of magnification of an image, a device of the psyche for symbolizing interest or emotion. We may remind the reader of the girl with pathological fear of cats who always witnifizes there as mammorh in rise.

Children, whose drawings are copies of mental representations rather than drawn from life, frequently reveal their prococupation by the relative size of various features. Ears are drawn as large as the head; buttons as big as saucers, It has been conjectured that perspective which develops slowly in the drawings of both the child and primitive man originates in the tendency of both to diminish the size of objects in the hackground because of a lessened interest in them. And drawing of a scene, in distinction from a single figure, may develop out of the continued repetition of a single figure, may develop out of the continued repetition of a single figure, may develop out of the continued repetition of a single

The art products of the insane exhibit the same mental gestures. Repetition of an obsessing feature frequently conventionalized or symbolically masked, disproportion of parts, enaggration of size, all bear witness to the fact that the strist's inner eve, not his other one, controls his hand.

So far as same art is concerned there are very definite limitations to the degree to which courrets objects may be represented by sibstruct qualities, or comotion allowed to distort experiences. Exaggrations and distortions we permit on the Funny Sheet and in the cartoon but we look askance at them in serious art although it is incontestable that powerful effects have been subsived by such means, as in Rodm's "The Acrobat."

Although emotional exaggeration and selective disproportion are probably pictorial in origin they make less intensive anneal to us when embodied in marble or pictured on the canvas than they do in verbal form where, translated futo fluidic imagery, un evanescent attitude, or a momentary patterning of thought, they may be given wide range. Let us study in this connection poetic hyperbols. Emotional accentuation of this sort is less creative than are metaphorical fusions: it is like an extravagant gesture which may or may not carry the reader with rt. As a noticeable mennerism it belongs to the post or writer whose thought-stuff is highly emotionalized, woven largely of motor and organic threads. whose temperament is impulsive and expansive. Deliberately or without forethought he exaggerates for the purpose of producing in the mind of the reader effects as vivid as he is experiencing himself. To be sure that the reader will get the effect of the very tail man he is visualizing, he calls him a "giant." He must impress his readers with a same of limitless time. So, with a toes of the head and a sweep of the arm he says " ages "

Vachel Lindsay's poetry which is written in the hyperbolic manner may be studied in this connection. He attempts to give big pictorial effects as in such lines as the following 1:—

"Across wide lotus-ponds of light I marked a grant intelly's flight";

ot

"Oh, he is tallet than clouds of the little earth Only the congress of planets is over him."

And again.

" We are sum on fire, was our yell—

Time and number are dealt with as extravagantly as space. It is not enough to say: "All the millions of the earth": Lindsay would "recruit all creation."

"All the peoples and the nations in processions mad and great, Are rolling through the Russian Soul as through a city gate." "The Ghost of the Buffalors" illustrates the same preoccuration :--

"They crossed the grey river, thousands abreast,
They made in minds have so the west.
Inde upon the of strange fary and fosm,
Sparts and wratch, the blue was then hims,
The sky was their goal where the star-dags were furied,
And on part those for roblem procedure; they whired "a

In "The Golden Whales of California," the hyperbolic manner in so enquisitely adapted to the matter that a most successful world carbon results:—

"Yes, I have walked in California, And the rivers there are blue and white, Thursder clouds of grapes hang on the mountains, Bours in the mouldows pitch and fight

The trees chmb so high the crows are dizzy Flying to their nests at the top. While the jazz-birds screech, and storm the brazen beach. And the sazz-tars turn fun-floo "1

If we ask what type of reader enjoys hyperbolic expression, the answer us, the reader whose psychic stuff is engaine and motor. The precise visualizer finds himself ufficentiorable in attempting use a "beart as big as a wagon," and remarks naively when "Samson threw down the gates with a noise like judgment" that undoubtedly that was a very great noise.

"In vessels mountainingh and red and brown,
Moon-ships that chimbed the storms and cut the sloss
On their provisivers cannot torrible bright even..." 1

Here is a report on the above fragment by a reader for whom kinesthetic, organic and mood effects are of the very wood of consciousness:—

"In reading this I have a feeling of higness followed by a definite shift to one of municipees at I gaze up this side of an immense warship, which as vitualized as surjectly image. For the "mour-ships." I again feel a larguress and minimizes which, however, as shocked out by the 'ternible implifying' to prove."

Self-projective reactions to the hyperbole are of particular interest for one frequently expenences curious motor feelings

³ Vaohol Luckmy, Collected Forms, Copyright, 1945, by the Mackillan Company. Reprinted by permanen. of magnification and of minification, an affect definitely cought for in certain satires. I get both reactions from reading Stakespear's famous lines but with a distinct shift in reference:—

"Why, man, he doth bestrate the narrow world Lake a Colossus, and we petry man Walk under his huge logs, and peep about To find carsolves dishomerable graves."

Hyperbole is an expression of the diffuent imagination; it is Oriental rather thun Greek. The American in this respect is mearer the Hindoo than the Athenian. He gets an esthetic thrill from mere bigness; a religious emotion from contemplation of numbers. How otherwise could be find it in his heart to measure scademic greatness in terms of the multitudenous and clamorous student? Jumbolem is not perhaps to be diagnosed as a disease when it thinks in terms of Woolworth buildings, bridges over the Hudson, Roosevelt daug, and the colossal Pyramuds of Egypt. Yet it is but a step from the billion-dollar imagination to the question of the small boy —

" How big was Alexander, Pa, That people called him great?"

The numerical imagination Ribot classifies as a form of the diffluent imagination: it takes plassing in the unlimited 1 One number is precise but a series is unlimited in two directions and limitless infinity makes a strong appeal to the emotions. Ribot says of peoples of the Orient that they have played with numbers with magnificant audacity and prodigality. The Hindoos, he tells us, invented prodicious units for their numerical phantagies, the Koti, equal to ten million years: the Kuips, 4,328,000,000 years, each Kalps being one of 364 days of the dryine life. The Dianas divide time into an ascending, and a descending period ; each of fabulous duration. 2,000,000,000,000,000 oceans of years; each ocean itself being sourvalent to 1.000.000.000.000.000 years. The sacred books of Buddhism abound in numerical imagination. In them is pictured Buddha "seated on a throne shaded by 100,000 parasols, surrounded by minor gods forming an assembly of 68,000 Kotis (s.s. 680,000,000 persons)." All thus, Ribot rightly says, makes us disay.

Science gratifies in many ways the numerical imagination. Astronomical infinitudes, geological ages, the infinitesimal constructions of biology and chemistry play upon the emotions that cling to infinite time, space and number. Why, one woulders, has poetry exploited this field to such a slight extent?

BOOK VI SPRINGS OF THE IMAGINATION

CHAPTER XX

THE UNCONSCIOUS

IT was once the fashion to begin a poem with an invocation to the Muse. However artificial such an opening would seem to-day it was in its time a somewhat sophisticated recognition of an element in creative work which in earlier days was very simply reckoned with and attributed to divine inspiration. We no longer think of the hand of a poet being utilized as a tool by a power beyond himself; we no longer consider the ravings of madwomen oracular; we have transferred the whole drams to the mind uself. But the more extensive our survey, the more penetrating our analysis of the human mand, the more we realize its exceeding complexity; we become aware that davilght consciousness fluckers over a voluminous and obscure mystery, and that we must look to the twilight or dark of consciousness for explanation of much that startles us on its surkies emergence into sucht thought. To change the figure, we recognize that much of that which is most vital and significant in the mental drama is played off the boards or, at least, never succeeds in getting into the limelight. "We wish." writes Ohver Wendell Holmes. " to remember semething in the course of conversation. No effort of the will can reach it , but we say, 'Wart a minute, and it will come to me, and go on talking. Presently, perhaps some minutes later, the idea we are in search of comes all at once into the mind, delivered like a prepaid parcel at the door of consciousness, like a foundling in a basket." The marging of consciousness, the haloes of meaning that fade out gradually into duskiness, these are recognised to be important in determining the train of thought. More than this, turious ansodotes are current of inventions achieved entirely outside of the focus of consciousness, perhaps outside of consciousness at all.

On another level we have interesting reports of motor automatisms, ranging from the imp-like perversity of our own absent-minded self midaying a ring or destroying a valuable letter to the intricate productions of automatic writers who write and know not what they write or read the words as they flow from their peas with a sense of some agency other than self producing them. We have fascinating examples of sensory entomatisms in which bits of forgotten information are recovered by the device of looking into a mystal sphere. Many of us can see pictures in the crystal, commonplace or poetic ones depending upon our mental constitution for we project therein our visual images, but the true scryer may find the crystal a means of restoring to him memories despburied in the debris of forgotten days or information that had never before entered the focus of consciousness. Halincinations, or false perceptions, in which we see or hear things which are non-existent, are other examples of automatism; or, to use other words which imply an attempted explanation, phenomena of dissociation. Hallumnations are obviously infrequent occurrences except in one form, that of the dream. Here we all have first-hand acquamtance with automatic phenomena.

Perhaps the most impressive examples of dissociation are those cases of multiple personality of which we have heard so much in recent years. The outlook on life, the temperamental peruliarities of the multiple selves, may range widely. It is no wooder that in ancient times the only plausable explanation seemed that of possession by a demon, or, occasionally, by a spirit of good.

Dissociated personalities are, fortunately, enceedingly rare; but shifts in mood so extreme that in our hour of melancholy we find it next to impossible to recall any scene gaily toued are common enough. Diverse syntheses take place and our attitude as a threwed business man may be so different from our attitude as member of a church that it permuts deeds at which the churchman, so churchman, would look apkanes. Only a few of me securably to the deality of personality that spells bysteria but at some time or other all have searched wildly for the book that lay unseen in plain sight on the table before us, or we have overlooked in our memorands of duties the nuwelcome letter that should be unswered immediately. Nowadays students of normal as well as of abnormal psychology are busy in determining the meconacious bases of mind; they are issuing facts the application of which must be sought outside the field of awareness. Tear do not flow without reason, but often without a conscious reason, or with a failedy assumed reason.

The argression "The Unconscious" is often used merely as a blanket-term for agnorance but when used by the scientific psychologist the term is usually an abbreviated hypothesis, which unwound leads straight into the heart of the psychologist's system. The old mechanistic association psychology faced with the problem of asplaining the continuity of the mental life and particularly the mystery of memory had recourse to "ideas" below the threshold of consciousness, statuc criticances that walled in the vestibule for their case before appearing on the stage of consciousness. Later, the ideas were conceived in terms of physiological traces which, however, were as inert as the former "datas."

With the advent of the psychiatrists and, later, of the psychoanalysis the problem was given a naw setting to prepare for the claborate drama to be played with the co-conscious scien or the unconscious wish in the leading rôle. A shaft from an emphasis of the merely static to a stressing of the dynamic was the main gain.

Recently Koffts has phrused the treatment by the Gossial School of the problem of the Unconscious. His exposition is of interest in this connection not only because it stresses the problems of creative intelligence but also because it treats it as intimately one with the rest of psychic experience. For Koffice, physiological traces are not static structural changes as assumed by the older theory, but unitary systems "with stresses which obtain in their interior and which may also exist between one such unit and older systems of units." A more or less isolated unit may "come into contact with

^{1 &}quot; Structure of the Unconstions," in The Unconscious—A Systematic

other units, thereby producing a new trace-unit which will give rise to a new process." (Italica Koffka's)

The conception of the material conjugated traces or physical substitutes of "ideas" as dynamic structures able to issue in new patterns or imaginative creations is not peculiar to the Gastell School. Morton Prince, for example, has written of active neural dispositions that ripen below the threshold of consciously organizing complexes. There is, however, a new emphasis by the configurations only a state to conception of physical configurations only as at another level their general conception of mental configurations. The notion of a structured perception, and the like. It may, moreover, be attacked by the same experimental procedure which has proved go fruitful in other competions.

At this juncture we would emphasize as important the fact that creative intelligence is no special prerogative of the poet or novellet or artist. All adults can cite instances of lucky guesses, sudden insights, unexpected generalizations, surprising buts of reportee that amazed them as much as the individual to whom addressed. The point, however, should be stressed that all so-called inspirations occur strictly within the limit of the individual's capacity, training and previous cogitations. It was to Hamilton, the mathematician, and not to Byron, the poet, that the famous discovery of the quaternions came. "Kubla Khau" was dreamed by Coloridge; the Benzene Theory, by Kekulé, the chemist. Inspiration may be a flesh-up from the unconscious but it is no chance explosion. occurring indifferently in feeble-minded or genius Moreover, no intuitions, as such, are guaranteed; their value is in direct vatio to the mind that has them. Error is as often the outcome of inspiration as is truth

Whether there are certain types of mind that proceed habitually in their trinking by leaps and bounds, while others concentrate with greater continuity and consistency and if so with what effect upon productivity is a question for experimental investigation. It has been supposed that differences in

The D'aconsecut.
 Lisbby, W., "The Scientific Imagenation," The Scientific Monthly, 15, 1922.

type really do exist, that some men reach their creative syntheses by archous step-by-step thinking while others see in a flash the conclusion and then need to work out the datails. For the first, alaboration precedes the discovery; for the accord, it follows. The former go from details to a whole; the latter, from a whole to details.

Ribot ¹ has named these types the reflective, or combining, and the inhuitve, or abridged, and related them to differences in temperament and disposition. They are, of course, found in all fields of productive thinking so that either science or art can furnish examples. Durwin was discussive in type; Wallace and Chopin, intuitive Ribot believes that pure types are the exception and that, usually, invention is a mixed process.

Analytical psychology has not gone far in determining the differences in mental content that underlie differences in creative thinking. It is possible that carstin aspects of the problem might be illuminated by a more complete investigation of the part played by kinesthesis in thinking. He who creates mainly in motor terms will possibly be less self-consecus in inventon than he who has more extensive recourse to visual and auditory imagery, for kinesthetic factors less frequently coup from it than visual or auditory components. Automatism is, indeed, anally thought of in motor terms although semony automatisms also occur in the form of theseintary life.

In our earlier study of imagery, attention was called to a paculiar difference between poets in their amployment of immethetic or optical-lumesthetic materials—a difference guaranteed by laboratory reports obtained from unsophisticated subjects. In the case of optical-kinesthetic materials movement was visualized tather than felt as such I suggested at the time that this curious difference in presentation of movement on the part of poets might tie up with a difference in creative type although I was frankly indulging in speculation. I anticipated that poets who give us much optical-timesthetic materials work much more consciously and deliberately than those who present a more purely kinesthetic content. It is

noteworthy that Poe and Miss Lowell, both of whom appear to have been highly self-conscious workers, give a remarkable number of optical-kinasthetic images to their readers.

Do poets actually have a more lively Unconscious than undinary mortals? The claim that they do has often been made and since their organization must be one highly sensitive to rhythude patterns which are largely motor in nature it may well be that they do. As a matter of fact every idea that fifts through anybody's head is smothing of a mystery. Where do any of them come from?

The real outstanding problem from any point of view is why some persons' cognitations (conscious or naconscious) issue in original patterns, others in stereotyped or conventional ones.

Gradel psychology in instituting experiments on productive thinking by determining the way in which configurations arise through the closures that take place in incomplete structures may in time make an outstanding contribution to the problem of creative thinking.

To illustrate certain possibilities of work let me cite a little experiment of my own. Twelve small tenr-eided figures. in two colours, namely a light pranse, or salmon-pink, and a violet, were combined in such a way as to form on the exterior s gix-pointed star with alternating colours at the tips and in the interior a dodecasen, again with colours alternating but in reversed order. This design was exhibited to a number of persons for a short period of time. It was then reproduced at set intervals in order to determine what differences would appear in the reproduction of it, after longer and longer lapses of time us the memory-image fuded out and gaps appeared in the decien, game which had to be closed with some form of self-activity. The particular point of interest in the outcome was the revelation of personal differences in the way memory cars were closed. For many persons there was a strong tendency to full back on stereotyped figures; a number, for erangule, substituted for the complicated four-sided figures simple equilateral triangles; others simplified the exterior design so that it appeared as the common hexagonal star. The colours also underwent change. The violet remained true to the original but the less common orange-tint, or salmon-pink,

became the crunge of the spectrum. Such changes were in the direction of reducing the design to something more nearly like stereotyped patterns. But other types of change did occur. For an octasional person the design became more and more elaborated, a departure from the simple and conventional in the direction of the chaotic; while in the case of the one number of the group who possessed artistic grits, the design became with the lapse of time so modified that an original and beautiful design reviewed.

It is common knowledge how a story told to a group or an ovent witnessed by them will undergo changes, how individual disposition operates to close the gaps in memory. The law courts furnish abundant material for study of how emotional furtors transform memory material.

It has often been suggested that the first and subsequent drafts of poems can be used in studying consenous slaboration on the part of the poet, or what Miss Lowell calls. "The process of puttying." There is much valuable material in unistence to which one might turn. Some configurationalist should review it carefully with the purpose of determining what revises it carefully with the purpose of determining what reinciples of patterning, what types of closence are operating. The extraordinary information that might be guized from such a piece of research is suggested by Lowes' amazing volume, "The Road to Xanadin," in which by appeal to Celeridge's notebook and the books he read, Lowes almost recreates for on the unconcess of crevition.

CHAPTER XXI

THE SPRINGS OF THE IMAGINATION

"At this time my imagination took a tim which helped too calm my our-casing encotions, it was to contemplate those structions in the books I had read which produced the most striking effect on my ritied; I to recal, consine, and spiply them to myself in such a manner as to become one of the presequent my recollection presented, and to be continueally in those fancial curvametances which were most agreeable to my inclination; in a word, by contriving to place myself in these fectitions situations, the idea of my real one was in a great measure oblithmatid"

TAUS wrote Roussean in his "Confessions" before the day of the Freudian psychology. The conception of imagination as compensatory makes believe explains, in part, the motivation that operates in the shattering of memory-experiences in order to remake them memor to the heart's desire. In a sense the day-dream image may even be thought of as antodating the memory-image; for in the memory-function reality-thinking is already curbing the dreamer. From day-dreaming to verse or story-writing is but a step. In the latter, the heart's desire is often perfectly obvious. Who can faul to identify the unfulfilled wish so exquisitely embodied in Lamb's "Dream Children." or in Shelley's "To a Skylark." or Tennyson's "In Memoritam"?

The dream is, according to Frend, cryptic. An obvious wish may seem to be fulfilled by the manifest content, but underlying this is a desper-seated wish whose fallilment is gratified by the latent meaning of the dream. In what sense is there also a latent meaning for the laterary dream? And why should the writer mask his meaning? In so far as the gratification in literary activity as in dream-fabrication is the fallilment of desires consored by the moral conventions of civilization, the poet or invested thance in the common psychic repression, and under cover of solution of world-problems vells-

his solution of his private one. Perhaps his dreams gain recognition in the world outside to the extent that they gratify a wish more or less universal among men.

If life were completely adequate, if the procentric desires of the child were thoroughly sublimated, turned, that is, to social ends that m a perfectly objective way brought success in life, would all fiction, all poetry be rejected as infantile? Arc all thusions, all idealistic reconstructions of life in terms of sternal values merely symptoms of failures to adjust to first-hand reality? Do we charsh dreams of remarkic love. of immortal life, only because of fathers in normal functioning of instinct? In a perfectly hypienic and normal world in which there were no poor, no sick, no bachelous nor spinsters, no widows, no mismated, no childless, would there be also no art, no poetry, no rehmon? Would a perfectly normal world be absolutely self-contained and complement from the cradle to the grave? Let the dwellers in Utopia. angurer I

In the meanwhile it would seem that great art is often as severely subordinated to resulty-timbling as great science and that mere facile identification on the part of the percipient so not the last word in esthetic appreciation. Living poets and fictionists do not present themselves for psychological inquisition, and psychoanalysis, which is a dangerous job at best, becomes a doubly dangerous one when there can be no first-hand appeal. Minute study of the life and letters of dead generoes certainly afford material for illustration of speculative hypotheses but often at too great sacrifice of personal reticence 2

In any case psychoanalytic psychology appears to afford no explanation whatever of artistic talent. Given a psychic conflict one may find refuse in regression back to infantile reactions (nevchosis) or in sublimation in the form of artistic or other activities. But art as a means of resolution of conflict or of compensatory activity demands very fundsmental grits such as sensitiveness to a particular kind of

¹ In Plots and Perconsistan (Sionect and Downty) I have discussed the part played by compensatory make believe in plot and character-creation. See specially One-form X and XI. ¹ And often accuracy Bes for cristics of a particular distinct Lower Zone b Kanstin, institute 146, 9 301.

seme-material (visual, anditory, or tactile-motor) and shill in some form of overt activity such as drawing, modelling, bowing and fingering musical instruments or vocalisation. These gifts are native, or, the Behaviourist would claim, the result of early conditioning. Psychic conflicts apinety swist without leading to any artistic creative work; and the convivum may also be true; talent may sometimes evaporate because of lack of motivation by conflict. Of course, from the standpoint of the man who mjoys rather than the one who creates att, sensitiveness and motor skill retreat into the background and the function of art in relieving the pressure of life becomes more stardform.

From our point of view, that of the stuff of literature rather than its modutation, we are interested in what Froud calls the manifest rather than the latent content of literary dreams. The imaginative individual differs from the unimaginative in the firedom with which he trees the material at his disposal. The richer and more vivid that material, and the more subtle his sense of relationship, the greater the possibilities for creative synthesis.

It is this creative synthesis of which Lowes gives us an incomparable picture in his "Road to Xanadu." a road which is for him a symbol of the imagination "voyaging through chaos and reducing it to clarity and order." The goal is that of pure beauty and in quest of it all experience whether one's own or that recorded by other adventurous sourits is laid. under contribution as well as dominant epochal concepts that pattern the blending sitess. Images interlocking through multitudinous associations and coalescing through magical identities, musical words shadowing and baloing the images. all movinding with precision of a chain of reflexes—so must the story. Given Coleridge's miraculous memory, his "optical spectra" (eldetic images?), his flare for words, his active intellect applying ourb and rudder to the "streaming associations" and "The Rime of the Aucient Mariner" is as nearly accounted for as any creation can be. And, pointing the contrast to the trimmphal blending of conscious and nonconscious control that prevailed during composition of "The Angient Mariner," Lowes shows how Consciousness played a , kne band in "The Destiny of Nations," while in "Kubla

Khan," the Unconscious played its game alone. To repeat—Lowes has recreated for us the process of creation

Trichener writes: "In imagination, consciousness proceeds as a whole from the fountain-head of disposition; there are no limits of any kind save those of individual capacity and experience..." Although the problem of personality has been a cautral one for the last decade we are still worfally in the dark as to its fromtain-head; in particular we have no contribution to make to that currous angle of it that we name style, distinction, the heart of artistic antegrity. The undivided personality, to use a configurational term, has something whether the matybeal procedure, while the patternal personalities of the psychoanalytic school, such as Jung's introverts and extroverts, have not lent themselves readily to laboratory measurement.

In an earlier chapter, in canvassing the possible relationships exacting between temperament and imaginal dispositions, I cated Jessich's T- and B-type of gennal psycho-physical reaction systems, characterized by edetic images. Here is a lead worth following for the psychology of art. Another carious individual difference is that of the degree of control which one has over one's images. Not infraquently psychological investigators sasert that our power of voluntary imaging far cortrues the ness to which we put imagery. But there are many individuals who assert that their spontaneous images quite outdo in variety and richness and vivideess their voluntary productions. It is very definitely true in the suther's case who has experienced extraordinary diffactory images and outhers of orchestral music but has no capacity to call them back at will.

In the case of the obsessive image art-theories have much to learn from psychiatry. Dr Martin has cited some interesting examples of such obsessing images from normal individuals. I take a part of une report from a young man who received eatral visities, a Handu and an Envotan :~

"At first I permitted these apparations because they amined me and I could benish them at will. But later they became more permittent and I could not red myself of them. Particularly

¹ B. H. Trinhener, A. Test-hoak of Psychology (p. 423). Copyright rgre by The MacMillan Company. Reprinted by permanens.

the eyes would appear and follow ma, without the rest of the figure becoming vanish, which caused me much anceptaand distress. . . A few owneding ago I was reading to be whan a single eye, about four uphes long appeared tack be whan as the present of the present of the day to the at the right and of my book. I glazzed at it and outstreed my reading. Presently the step came narror and slid over the edge of the book. It was transparent, and the words were quite vanish through at "!

It will be recalled how Henry Cowell, the young composer, worked deliberately to gain control over his spontaneous images. Conscions elaboration must be mastered by the creative worker. The literary craftsman sequires a technique by which he learns to utilize inspirations, he may even acquire the habit of having them. He develops various necessary mental sets, rhythmical and otherwise. There is deliberate acquisition of a vocabulary of magic; above all, dalberate acquisition. It is a matter for great wonder that a master-workensa such as Masefield should be able so to marshal this forces as to write "Cargoes" in an exceedingly short period of time?

Nicolas Kostyleff in his "Le mécanisme cérébral de la pensée," reporting the outcome of his interviews with contemporary French poets and novelists, stresses their care to document themselves, auturate themselves in the subject-matter of their work, and to earlch their verbal associations. Such documentation eventuates, according to Kostyleff's theory of poetic inspiration, in the formation of chains of associations which when a discharge is once set off results in an univelaition for what fractes. Transition from one chain of verbor-motor associations to another may be mediated by the most subtle connections between them, so that first drafts of poems frequently earlibet apparently unrelated ideas.

Environmental contacts may be needed to start an automatic chain unrawelling or stimule of other sorts may serve to discharge the accumulated energy. Creative workers have much to say of what touches the creative process off. It may be a chance smotion, a stray odomy, a conversation with a franch, a mood of Nature—there us no end to the last. Undoubtedly many a gentus has learned how to condition inicasif

b "Ghosts and the Projection of Viscal Images," Amer. J. of Psychol. 56 (1913), pp. 33-247. See also Martin's "Ferconship as revealed by the Content of Images," Sewace N.S., Vol. 45.

so as to usuare productivity during his working-hours. A particular room, a favourite deak, pad and pencil, the melody of a Rammgton typewriter—all may become the attinuist that starts unvention. Ribot, 'Roowloon,' and others have delightful attories to tell us of the ways of the imaginative wurker and William James has suggested that we might utilize bagraphical material in discovering how to energise curstlevs, to tap the reservoirs of tainnt that most of us never utilize.

Miss Lowell's " scientific definition " of a post is interesting from this point of view. She defines him "as a man of extraordinarily sensitive and active subconscious personality, fed by, and feeding, a non-resistant consciousness." The last clause ments emphasis particularly if it refers, as it well may, to freedom from the many inhibitions that yer ordinary mortals. Possibly there is a relaxation of attention in the post which permits the entrance and consequent coalescrape of ideas that ordinary mortals keep sundered as the poles. often because of mental sets acquired through the pressure of routine activities or impressed by social conventions. Even prosest individuals often have dreams which are fantastically original. Lamb was wont to advise young writers who were "balancing between prose and verse" to decide upon their course by the texture of their dreams. " If these are procain they may depend upon it they have not much to expect in a creative way from their artificial ones."

In drama many ministrions are removed. The pressure of the environment, both physical and social, is lessened. The critical reason is in absyance. An explanation frequently given for flashes of usaght that solve problems after they have been long out of mind is that during the period of mactivity many associations that blook the solution have faded out so that on a return to this problem the course lies open. During periods of lapsed gractice a similar thing may occur; marsased skill may be evident after a period of no practice.

Undoubtedly poets are made as well as born and in part this "making" movelves the throwing off of fatters that for most individuals keep them from being as original as they might.

¹ Loc est Originality
2 Williamson, The Way of the Makers, p. 202.

CHAPTER XXII

THE POET PSYCHOLOGIZES

"To one only will I tall it, do I tall it all day long.
Only one can see the patches I work grin quilts of song.
Crary quilts, I'm sure you'd deem them, quite inswirriby
of your prong." 1

Tatts wrote Amy Lowell in answer "To a gentleman Who Wanted to See the First Draits of My Poems in the Interests of Psychological Research Into the Workings of the Creative Mind." The poem is an upflare of indignation at the impodest psychologics who would "watch my thought's green aprouting era a single blossom's thown," But in spite of the poet's indignation she had given us a graphic picture of how one type of creative worker—the reflective—goes about his work, What can be more picture-guely descriptive than her expression "creaty quilts of sour," or her him:—

"Little imping plantams, such Are my posms before I've taught them how to walk without a crutch "?

It is perhaps no cause for wender that the imaginative worker resents interrogation by the scannist. But ineffine is it surprising that the scientist continues his probe, because creative intelligence is the contatanding mystery of the world and even an incomplete grasp of the problems it presents has important cransaguences for philosophy, science and art ineif. Moreover, the accounts given us by the poet and fictionist is not how they come by their flabrications are immensely intriguing. How can the inquisitive psychologist remain quiescent in face of Strevenson's delightful account of the way in which the decam-life maylumpla the story-taller with plots and characters. He writes in his fascinating "Chapter on Dresma." " When the hank begins to send latters and the butcher to linger at

Bullade for Sule. Quantum by permanen of Hongirken, Malkan & Co.
 In Across the Plains.

the back gate, he (the dreamer) sets to belabouring his brains after a story, for that is his readjest money-winner; and behold I at once the little people begin to bestir themselves in the same quest, and labour all night long, and all night long set before him truncheons of tales upon their lighted theatre."

Other creative workers have left as accounts of how their dreams come bringing gifts. Every one knows how Coleridge woke from aleep with "Kubla Khan" at his finger-tips and Masefield has told us how " The Woman Speaks " was dreamcreation. The poet saw the Woman very clearly even to all the details of her costume and had a complete consciousness of her whole past life and then "As she passed out of the dream, the whole of the poem appeared engraves in high relief on an oblone metal blats, from which I wrote it down." (Italica mine).

One of the most interesting and detailed ancounts of dream-creation is that given us by Edward Lucas White in an Afterword to the Fourth printing of his fascinating novel. " Andreius Hedulio." 1

" I dreamed the eptire story, and I do not mean had a vacon of it while awake, but dreamed it while saleep " As I have set forth in my Preface to The Song of the Suress, I have dreamed many tales, not only m day-dreams, but often also in actual aloop. Such dreams of narrative fictions have come to me not mirequently ever since I was under fitteen yours of ago. Those which I could, after waking, recall more than vaguely, have been of three very distinct kinds.

"Often I move amid the phenomena of the dream as a hving man among the micrometances and acquaintances of life, and the vision differs from an ordinary dream only in its coherence

the wann differs from an ordinary dream only in its contents of and vurdiness and differs from walning expensions chiefly in its possession of a consistent plot, the earliest events of which pringers for and, through enginessing compress, lead up to a "Officer and hardwally I wake as it after just fination; the ministripytic reading of a rotative of which the plot, monachinants and characters are intensity I wake as it after just fination; the initiative reading of a rotative of which the plot, monachinants ladewar I generally have meight of the top of the read-lative of the section of the appet of the style of type, at the initiant of waking I can almost see the last page, inea, words, letters, capitals, dots, confi; even to species in the paper.

² Operation by paradonou of R. P. Dutton & Company and of the author.

"Not infrequently, instead of the impression of being the chief personage of the romance, I have as incotany sensation of superhuman and all-inclusive perception, of beholding every convergence and vest not from any one severent, but rather from the pout of verw of each of the participants and ever, with an unconditioned multive conjustance, from all verrepoints at once; of persisteng the many working of the of their participants and of the participant and of the participant and of the participant and the processing aware of their participant laws and the processing aware of their participant laws and the processing aware

of their park inves, motives and purposes.

"Sometimes I have two of these semastrans together. I read the book and asn the protagonus of the story, or while persuang, I approximed, approximed, approximed, approximed, approximed, approximed to the remainst trem the set of medicing, every phase of the formance; or, while know the naturative, I am agree you of all the montries of details, with a detectioned swarpiess.

as of an impersonal external observer

"Culy once have I, on walten from a dream, had all three sensations considerable. I read the book, I was the here of the romance, and I know everything and everybody undependently of reading the book or of rapperancing in medicals. Among my many romance dreams this far outsines any other, even all the others Oddly enough, I have not the date of it. It has been my hable to pot down, on walten, a memorandum of each marketild indeem and with a sympose of it at the first opportunity. Yet of this, the most marvellous I over had, I leak the memorancing in I may know that it was before Carteline's of the control of the c

"From rt I woke with pauga analogous to those which Stevenson mentions in his 'Chapter on Dreams'; pauga partly

self-congretulatory, partly of self-condulence.

"I was slated, for it seemed to me that I had, without any mental effort of man, been pot into possession of an unitarillung plet, far better than any I ever had mwented awates, or could over hope to create of purposenti waking voltans. I wan fact, tarrly dazzled at the consistency of the tale, at the manner in which the entire medients led up to the later, at the manner supment, at the definess, far beyond my commotion capacity, with which casch dramathe moment was prepared for and nucle the most of. And I was angazed at the convincing reality of many of the scores, at their corrumntational versionalities.

"On the other hand I was depressed. I fast that if I had remembered the dream in its entirety and munitant forth word in the contract and munitant forth, word for word, it would have outshore any printed remained, but there was much I could recall only vaguely, much which I could not recollect at all. In the dream the book I read had been in Englash, but as I level the call that thought in I hat or Grouk and I and every one had talked in Grook or Latin, or Grook and I and every too had talked in Grook or Latin, are two sets of images had flowed on together without may are or any sequential of force, Latin, or even Englash, I retained only a general idea of their mesoning."
"Thus, whereas, in the dream, I had been vivially aware of

"Then, whereas, in the dream, I had been wividly aware of every hotal, after waking I retained only a general impression, whereas, for instance, in the dream, every flower and fruit had born individually recognizable and each exactly commonant with the locality and the season of the year, site waters in rocalized, for the most part, only having seen fruits or flowers. I see that through the common part of the common seen and the deliving I must do to restore to scene start score some small

portion of the convenience detail it had had in the dream. I surenk from the years of testing."

manual most, time yours or teaming.

Not notificial diseases only but day-dreams also may function creatively. The creative flash may interrupt a conversation, stop a walk, or interfere with a dioner.

Many writers tell us that the children of their lancy present themselves to them full-grown, usens in full paneply as did Athens from Jove's brain. So startlingly strange does this sudden emergence seem to the creator that often be desavows completely responsibility for the production. Says Mosset: "One does not work, one listens."

"What are you doing," Lamartine once asked a friend,
"with your head held thus in your two hands?"

" I am throking "

"Strange! As for me I never think; my thoughts think for me!"

Even George Ellot, the rationalist, speaks of a "not berself" which took pressention of her in her best writing. Charlotte Brouti's biographer' tells us that after van efforts to complete a story "some morning she would waken up, and the progress of her tale lay clear and bright before her in distinct vasion, its incidents and consequent thoughts being at such times more present to her mind than her artual life tigetf."

But lest one assume that the way of the poet and factionist is an easy one to travel, it is well to recall other reports by the brotherhood in which they stress the difficulty with which they woo the Muse, the long hours of effort and seeming emptiness which preceds the creative synthesis or follow it. They may even report as did Poe in his secount of how he wrote. The Rayma' that the whole process is one of ratiocuntion, of daliberate whighing of effects. "Most writers poets in especial—prefer having it understood that they compose by a species of time freury—and costatic intuition and would posttheyl shadder at letting the public table a peep

¹ Mrs. Gastroll, Life of Charlotte Browd.

behind the access, at the elaborate and vacillating crudities of thought—at the true purpose exired only at the fact moment—at the immersuhle glimpess of ides that artived not at the maturity of full wise—at the fully matured fancies discarded in despals as unmanageable, at the cautions selections and rejections—at the painful crasures and interpolation—in a word, at the wheels and plaines—the tackle for access hifting—the step-isolders and demon-traps—the cock's feathers, the red paint and the black patches which is pinety-mine cases out of the hundred constitute the properties of the literaty histric."

Sundry psychologists have warned us to beware of the psychologisting of the poet. His greatest gift—that of imagua-tion—may lead him to dramatize and attradinate to such a degree that his so-called introspections, however delightful as fiction, have no value as science. An indirect supposeds is comussibled; for example, the study of the first drafts of possus, of notebooks, of sources. Certainly such supplementation should be resorted to, nor should first-hand reports be taken mortifically at few value, and yet they industribly do possess some significance for the psychology of the creative mind. They may be compared with profit and valudated by reports from trained introspectionists.

The reports by literary geniuses on their dream-creations taily remarkably with what we know, through other sources, on dream-psychology. Take, for instance, certain details of their reporting which are very like those found un technical articles on reading and writing dreams, the haffling experience of attempting to decipher blarred writing, the "almost seeing," the sense of getting the contrast without heing able to fixate words, the creation of quantit neologisms.

Many dreamers, just as Strevenson and White, comment on the sugressing suspense with which they watch the unfolding of their dream-plots and their surprise at a thrilling and incapacited denousment. Such incipient dissociations are common in dreams and marror the shght dissociations which literary workers report as automatic activities, parhaps personitying their co-consciousness and describing it as the Brownies, White Presence, Agrial Visitory and the file.

"Who are the Little People?" Stevenson asks—then answers his own question. "They are near connections of the

dreamer's, beyond doubt; they share in his financial worries and have an eye to the bank-book; they share plainly in his training; they have plainly learned like him to build the scheme of a considerate story and to arrange emotion in progressive order; only I think they have more talent..."

Thus graphically Stevenson states the fact that dreams, however strange they seem to the dreamer, are yet the product of his patterned personality. Professional and habitual mental sets hold over into the dream-life although few learn as thoroughly as did Stevenson how to investigh the little People into a commercial partnership. Yet this is not quite the whole story for the freedom of the dreamer from sundry inhibitions does emlarge the range of possible creations. Thus Stevenson tells how no one occasion his Browness entertained him with a little April comedy which really belonged to Mr Howells. "But who would have supposed that a Browne of mire should move the alle for Mr Howells."

It would be quite possible in this connection to study the Froudium mechanisms that operate in dreams; dramabustion, symbolization, fusion, over-determination, compression and the like. But the analysis would take us too far afield and, bendes, this type of presentation is to-day easily accessible. Instead, let us note the interest many contemporary post-take in a somewhat technical psychologizing of themselves. Many of them have more than an amateur's acquaintance with psychology and are bore introspectionists.

Where, for example, one one find four introspection than Courad Alten's account of his state of mind during composition. He describes it in "Sceptifisms" as a sort of dual consciousness in which the many passages leading downward to the subcommunications between the upper and lower planes are free and full. Such a dual consumutaness may be achieved by the deliberate trucking off of an idea which explodes downward "with ramifying first through the mins-chambers upon which by association one desires to draw," or there may be an ancidental explosion. The train of first may be started by the

^{*} Rgr an emplicit summary see Princt Jones, "Preud's Psychology," Psychol, Rul, Vol., 7, 79, 100-126 I behave a most producable study could be made of keesary meantain, sang these man concepts, not as a tool for analysis.

merest chance, by a phrase encountered, or by stimulation of the senses.

One of the most interesting of reports is that by Marguerite Willdman in the Introduction to her volume of poems entitled. "Bluestone." This poet writes her lyrics to inner tunes for some of which she gives the musical notation in her parrative. Her careful and detailed report, which deserves careful study. ruses questions which actually suggest laboratory problems for the configurationists. She notes, for example, that if her lyrics happen to take an lambic pentameter rhythm they "seldom grow tunes of their own," and she queries whether this is due to the triteness of this rhythm. She conjectures, too. that her method of composing lyrics is akin to that followed in the making of folk-songs—another fartile idea. Of the roots that occur in her chants, Mrs Wilkinson states that they give time for realisation of the pictorial quality of the lines (visualisations?). She describes the visualisation that accompanied the composing of " An Incantation" but (curiously) there is no evidence of specific utilization of such visualization in the poem steelf. Are these visual images suggested indirectly? An experiment in the laboratory would answer the question.

In her hook "The Way of the Makers," Mrs. Wilkmson has collected statements from present-day Americans occurring their methods of work. They are worthy of careful analysis because of their slantwise illumination of the psychology of types as well as for the light they give on the poetic imagmatom. Miss Lowell, for instance, gives a clear-out report on har inner speech, a report which might be deplicated in a laboratory experiment. William Rose Bentis advises actual practice in visualization as part of the poet's dreaming and intense resulting in themsking of a poem. "Then thinked your visualization is terms of the greatest music you how."

One of the special capacities of the Imaginative mind is its means you emotional and mental sobleties which the average mann may exprience but straightway forgets. The literary mind—since this is in part his stock-in-trade—notes and retains such material. The psychologist may well be greatent that in his off-moments poet and factionist are ready to analyze their professional expresences. Here is a golden mine to be worled by the trained scientists.

BOOK VII

LITERARY SUBJECTIVITY AND OBJECTIVITY

CHAPIER XXIII

A FEW WORDS ON EMPATRY

IMITATION has been frequently appealed to by historians m their discussions concerning the origin of sixt. Semberge and painting remodece the objects in the outer world : drama copies the actions of the world of men. Postry in indurect fashion mirrors the human smotions. True, a conception of art as photographic is obviously unadequate. It has been rejected in take by certain artists who even in the regim of painting and sculpture would follow the ideals of absolute music and evolve a pactorial art that remoss in sheer melody of line and colour. Their interesting arraignment of traditional views may force us to a more intimate analysis of the origin and purpose of art production. But, in any case, in contemplenow of art imitation appears in subtle fashion. It is not merely that we grow breathless with the numer on canvas as we do when watching him upon the field; not only that we writhe with Laocoun, or sink into a contemplative mood with Michelangulo's "Thinker," but every arch of stone, every cedar box, every curving vaso induces subtle personal reactions. We pause at sight of the broken column. Our sense of its meaning is a realization of the arrested eye, the checked breath. The slander pillar topped with heavy cornies overweighs us; we too yield under a too heavy burden. The misshaped pitcher oppresses us with the sense of our own madequacy.

Not in contemplation of art only but also in that of Nature we mark these taner imitations, these psychic posturings, these organic echoes. There is a lift of the whole body upward, an intake of the breath, as the eye follows the outline of a slender Monterey pine, rising a hundred feet above the shrubbery at its feet; a deep expiration as we glimpse the fundite boughs across the embright cloud. The long lines of a level smuset, the expanse of the prairies, quiet the inner turnmit by their control of the polastions of the organic life. In complete surrender to the suthetic mood, these organic reverberations are read back into the object. The babbling brook is described as breathless; the forest glade, as mysterious. Mooks are objectified and given names of natural objects. We speak of the mounlight mood; the mood of the stars, of spring, of autumn. They are as real as beams of smilight on heavily tasseled outs.

If we are analytically exact we must distinguish actual mimetic movements from movements of perceptual adjustment. It is one thing when I copy by my attitude, actual or imaginal, the posture of Minhelangelo's "Thinker" or Redjin's "Balzac"; I speak then very properly of mimetic realization. It is another thing when the lines of a statue or building release certain movements of accommodation, certain kinerithetic and organic patterns of perception which as integral parts of an emotional complex reinstate this complex in the act of contemplation. The authority object becomes coloured with the asse or inadequacy of adjustment; it is itself a pattern of grace or of incompleteness.

Famons analysts among psychologists and art-critics have given us many subtle mechalations of the doctrine of inner initiation and of psychic participation. Their technical term for this process of psychic participation in empeliey, or a process of "feding-in," in which motor and emotional artitudes, however originating, are projected outside of the self. One authority defines the term so as to include the "reading mot impersonal and often inorganic objects of the organic sensations, fedings, emotions, and desires that are really in ourselves." E. B. Théhener states that unputhy is "the name given to that process of lumusiping objects, of reading or feeling ourselves into them." I From one point of view we subjectly an object; from another point of view, we objectly the self. We assume attitudes and emotions in obedience to demands of the outer world, then refit the world with these patterns

¹ A Test-book of Psychology, Scotmots, p. 427.

which have become intensified through intimate realization of their meaning.

Our understanding of persons also as monified by something alan to empathic processes. Through subtle initiation we assume an alien personality, we become aware of how it feels to behave thus and so, then we read back into the other person our consciousness of what his pattern of behaviour feels like. Much further reaching than sympathy is empathy. We may sympathize at times when we cannot empathize because of inadequacy of experience.

The doctrine of exthetic empathy will no doubt develop in measpected ways as its mechanism becomes better understood. It has come to be a much-inclusive term, since it overs not only consideration of minutic realization (inner initiation) and movement patterns as contributing the autotronal or mood tone to perceptual complexes, but also, by and large, the problem of the projection of all self-experience into the chusch

In general, I have sought to exclude eatherts theorizing from the present book. One speculation I wish to venture, namely, that seathert experience is largely concerned with the projection of affector reactions into an external world; it is an objectification of emotions, the creation of a universe of mood values.

In the genetic process, sense-qualities have long smore been objectified, solidified into very substantial percepts. Sweetness is conceived as a property of sugar; yellow as a property of the sonflower Pressed back by the philosopher, we know that sweetness aruses in relationship between a tongue and chemical properties, that green is not inherent in the grass but the outcome of waves of a certain vibratory rate acting upon ratinal cells; that this world of outer percepts has been built up by millions of years of organic reactions solidifying into racial habits. In sethetic reactions, the projection of affective qualities is in process of taking place. A universe of emotional objects is in course of construction, a universe to be constituted by externalization of delicate personal amotions which are carried by subtle variations in accommodatory movements of the sense-organa, modulations of breath and of pulse. Self is the very core of such creatum

since it is in process of projecting or externalizing itself. The so-called secondary qualities of matter—visual, anditory-offactory—are essential to the seather product but kinesthetic and organic qualities contribute the self-feedings that mify the object. It has been said that in many cases of compathy we subjectify an object rather than objectify the self and undoubtedly this is true. We assume attitudes in obsticate to the demands of the outer world, then refit the world with these attitudes, intensified by intunate realization of their measure.

For detailed comprehension of the processes of empathy there is need for experimental studies with aimple material, such for example as Bullough's work with colours which we have already described in Chapter IX where the transition from physiological and associative reactions to the exhibitic reaction on the basis of projection into the calour of the subjective state was indicated. That something similar in nature occurs in reaction to words was suggested by my own connectation experiment. The latter analysis study however, penetrate much further into the patterns of suddicry perception, if we are to gain information in respect to it comparable with the rich material furthed us by the investigators of visual form.

CHAPTER XXIV

In curtain respects the esthetic doctrine of amountsy reminds us of the psychoanalytic doctrine of sdentification. Identification has been studied largely from the point of view of the organization of selves rather than the constitution of a universe of values. Two phases of it are recognized that of inclusion within the self of alien experiences, the introjective phase : and the exclusion of inner expurences, the projective phase. Fundamental processes of psychic assimilation and repression are involved in the process of identification which. taken inclusively, cover the whole field of self-integration and individualization. The intropective phase of identification includes all that is commonly spoken of as "identification." the margence of self with the crowd or group, the feeling of unity with the hero or god Projection, in contrast, attributes to the not-self the self-experiences. It ranges from imputing to others one's own sins, to projection of a whole body of memories and habits into a dual self.

The arthetic doctrue of empathy streams, cheefly, behaviour patterns released through the sheer activity of perception, a much more eversive process than that of somal identification. Moreover, while the response to art may be that of the participant identification to the satrower and popular nearing of the torm, when, for example, the reader feels immusit to the heave of drama or novely the truly awithin response to not stop thems. It goes beyond introjection and projection to a final assumisation of the projected experiences, a complex integration.

We will need to consider in some detail the relation of the Self to Art and to stress as with other topses the fact of

 $^{^{1}}$ For a genetic treatment of Participation, see Marphy, Pressive Mass, Chapter X.

individual variation. According to Mulker-Freientels, three types of response should be recognized: that of the Ecstatic, the Participator, and the Spectator. A few words will be given to the description of each variety of reactor.

First of all, the Eestane, for whom all self-consciousness is merged in the perfect unity of subject and object that secure under conditions of intense enloyment. There is such an identification with the objects purvived that the "I" seems unterly lost. One becomes that which he is enjoying. George Sand's description of her own estatic experiences have often been quoted in the connection:—

"There are hours," she writes, "when I go out from myself as the grass, as both, as tree-bop, clouds—hours when I feed myself as the grass, as both, as tree-bop, clouds—hours when I run, fly, swim, when I unfeld myself in the sun, when I sleep under leaves, when I foot with he larks or creep with the hards, when I jake in the start and fire-fines, when, m short, I live in every object which affords an extension of my cuttenge.

Quite comparable to this is a report by a former student of mice:—

"I am the tell white lilies and feel tall with a slender awaying feeling that goes to my head, and makes me a trule dirry. I am railing masses of minac; or I dance with notes with flying feet until my heart heats rapidly

test muts my heart beats rapidly
"I am in the winter subvectorm with great gusto. I seem to
dense and throw my arms about and rush madly on until I feel
all glomently above and strong.

"I easy pertucularly nature poetry that personnies as Shelley's 'Cloud,' because I more easily translate myself into such poetry. In the 'Ode to the West Wind 'I may have the run of all the globs'

Vachel Lindeau phrases the same reaction -

"I am no longer man, but cloud or tumbled maple-loaf."

Often, for the Ecstatic, with loss of self, both time and space orientation lapses. He passes into the trance of the mystic and may lose consciousness even of the art-etimulus. Perhaps such existin enjoyment is most commonly experienced in listering to music.

There is, secondly, the Participator, (dor Mytopisior) who takes upon himself another self, who can sink himself in another personality, play many rôles. The spectator may

¹ Psychologie der Kunst, Lespzig, 1912

assume one personality after another, although, no doubt, with varying degrees of success. A thorough-going facile identification may coexist with a low type of art-nonsciousness.

"When I read," writes one, "I readily become quite feaf and meanable to ordinary interruptions I am firing a great number of different laws I laugh and or with the obsarvauntil it as discontint for me to mad anything continuous im a place where I may be observed because there is damper that I may seem to be making if I show myself to enter into the book."

Of course, not merely the type of reader is potent in creaming the form of reaction but also the limit of literature read. Short stories, novels, and dramas would seem to encourage the attitude of personal assumption of emotions, often to the exclusion of all possibility of artistic evaluation of content. This is evident in many current discussions of books or plays of the day which turn upon the questions of books or plays of the day which turn upon the questions of broads liking or sympathy. Here's an interesting comment on a modern play, "The Circle." The lady who made the comment was critical of the play because she considered that the characters—presumably of high social standing—did not show good breeding; they lost their tempers (at cards i) and were grotous at slight provocation. Their manners impressed her as rather worse than their movals.

"When I go to a clay," she said, "it is as if I made a social call and I do not enjoy meeting people whom I should refuse to call upon in real life."

Obviously she was taking the participant attrade, sithough inseging harself in the background. It would be interesting extring this lady's resolutions to a play featuring a lavel of society with which she was absolutely unfamiliar, in which case she might achieve detachment as we shall see from the discussions in the following chapters.

The participant attitude is common in prize-winning latters, that stress, usually, the human interest motive. Here is one from an "O. Henry Prize Contest."

"To my much the best example of O. Heavy's art's the 'Unfanabad Story'. We can all first with Dube's her inspiral for her share of the yoy of irong. Poor hitle atom with her heavy-loving soul and her starwed and closeries excent her sharely with the best her straiged. We sorrow for and with her in her polysas life. We went to substitute her We want to make her

his happier. We wonder how we ourselves would stand the stream of hunger, band work, lack of clother and knelmos."

There is, thirdly, the attitude of the spectator who retains his own personality—in art enjoyment he is the spectator, the onlocker (der Zuscheser). Such an attitude may be found very notably in the critic, whose enjoyment newer swamps his capacity to estimate the value of a work in terms of his own criteria; but it may also occur in the most artistic of spectators who maintains a godlike detachment in the face of conflicting enotions, which interplay as colours upon an extended canwa-

Merely sentimental verse depends for its appeal upon psychic identification; imaginative poetry, on the other hand, may lead to the purest form of establish realization. Often, obviously, the novelist or dramatist seeks no more than to induce sympathetic identification with his characters. He content with an ephement frimmph, for it may be observed here that the participant attitude probably leads sooner to satiety and desire for change than does the more detached attitude of satieties or sethetic revocation.

Many details of literary method find their explanation in the relation of self to the literary experience and suggest problems for investigation. The demand of the average reader for "sympathetic" characters testifies to his assumption of the participant attitude. Furthermore, the "arbitrary character"—as Brander Mathews calls him—who for the purposes of the plot does silly things, must not be the here or herefine although he may be the villate.

In this connection one may raise the question of the relation of grammatical form to projection of self into a given situation. The statement is frequently made that in the last analysis it does not matter greatly whether a story be told in the first or the third person. On theoretical grounds one must question this Certainly the "I" form would seem to be conductive to the assumption of a femiga personality; the third person favours the spectator's stituted, etached or suthetic. An intermediate form occurs where the "I" of the stray is not the principal character but an interested and quantly, friendly spectator. Here the reader takes on the desired personality—doubly filtered as it were. This method leasts itself to helefstened idealization of characters since the

marrator may vicariously assume all bleminhes or defects of comprehension. A still more subtle utilization of such a method of artrusion of unlovely and yet human traits occurs when the narrator is hostile to the character, a hostility that often results in passionate idenimation on the resoler's part of the undefended personality with extrusion of just those traits that make the narrator odious. The fine point to which such a method of characterization can be carried is evidenced by the effectiveness of Browning's "My Last Duchess."

Possibly when the "I" of the story is a blustering here or autravaguarily equisitis individual the use of the first person, actually induces "homorous detachment" on the part of the reader, hence us mattheation.

The telling of a story in the second person is attempted so indrequently that one finds oneself curious concerning the reason for the almost universal rejection of such a literary form. Analysis indicates that two vary different attitudes may be touched off by than device. In the first instance, tha "you" to whom the story is addressed in the intimate confidant or the second self of the hero. The dear reader may get the feeling of being "de trop," an outsider overhearing something not meant for his ears, an unconfortable feeling itself to tympathy and one which may become critical to the last degree, ready to pounce upon anything strained or gottesque in the story. Only when the effect produced is pictorial, sethictally veiled, is this form a successful one.

In the second case the "yon" addressed is many reader. There is such confident expectation of the reader's assumption of the participant attitude that he is thrown on guard. The effect is that of laterary ranting, begunning with a chimas, instead of working it up gradually. Parthermore, the myriad-minded reader who likes to try on different personalities study bimself too rigidity limited in his outlook. Hence the bored or fatigued feeling that results from any extensive use of the second person form.

None the less, the You-form may be recommended for literary experiment. Given a theme with a undversal appeal, the adoption of the reader as the here of the story or as the here's sympathetic shadow may be successful. The effective ness of Elesance Abbotts. "His Happy Day," told in the second person form, is in part explained by the secondition at first of the viewpoint of the little child, naively confident of the sympathy of the world with his whinnies, his tragedies.

What attitude does the writer assume during composition? The participant attitude would seem to be a not uncommon uns. Witness some of the curious stories told of Dickens, such as his being overcome by sorrow at the death of Little Nail. An artistic writer, however, always retains detachment anough to be able to weigh his wark critically, to achieve an objective evaluation of it. In this, pro-eminently, is to be found the difference between the imaginative creatur and the madman. Both create new worlds of reality, but the madman's world is one of purely subjective value; the universe of the other may be rediscovered even though it require first a long voyage and a slow rending of dimly charted seas.

In the next chapter, we shall discuss in some detail an attempt to attack experimentally the relationship of saif to art.

CHAPTER XXV

LITERARY SELF-PROTECTION 1

The empathic image—its explanation and function—is a more subtle matter than that of mimetic realization of, or symnathetic participation in character. No immediate pattern for imitation may have been presented. The mind in response to verbal suggestion creates images which it presents in a motor framework which may be localized in the person of the reader or projected into the object itself. Here the distinction previously made between optical-kinasthetic and felt-kinauthoric images is in point. Felt-kinesthetic and organic disturbance may be mimetic in intent, but optical-kinasthetic imagery in which the movement or mood-complex humanizes the object is empathic. In the latter case the feeling-in process has been carried one step farther than in the former. But self may appear in art situations in still more overt fashion, as for certain observers of okturers, who visually present themselves to themselves in an expressive or contemplative attitude. You may, for example, see yourself on the canvas move down the long avenue of trees or behold yourself standing by the ripoling stream. Here inner imitation assumes a whimsical form since it not merely echoes creanscally the mood of the picture but externalises, projects into the picture, the semblance of the self in its emotional response. It is not enough in fiction to feel the emotions described; one may see oneself garmented in them. At this point we may very properly turn to actual records of salf-projection, obtained under experimental conditions.

By self-projection is meant an explicit consciousness of salf-nontent in any form of imaginal representation whatsoever,

³ In the chapter I have made free ass of thy report on "Lateracy Sel-Projection" in the Psychol. Rev., 19, 1912. By permission of Editor.

The term projection is retained in spite of the criticisms that have been directed against its use in this connection. A definite localization of the self-image, when visual, in any one of the space-possibilities that Dr Martin has described so adequately may occur, and in this respect the visualization of the self smooth to be projected so much us, but no more than, any other image. The term self-visualization might seem sufficient in itself to suggest projection. Self-projection emphasizes, however, not merely the fact that the self-image has a localization but also that the self-representation as such bears definite orientation and relation toward the rest of the imaginal content. Moreover, it annears that the kingsthetic self-smare may also be objectified and localized and that in certain instances there may be an actual fusion of the selfkinesthetic contest with visual content not-the-self. In this case we have projection not only in the pense of external localization but also in the sense of translocalization. In an earlier chapter numerous illustrations were given of stareotyped images of the salf ; many visual, others kinesthetic. We said that these images served practical purposes since they might be utilised to fixate a professional ann or a social ideal. We saw, also, that the image of the self, stereotyped or flexible. might be projected into external space as were other images. In the experiences which we are about to review, we are

concerned prunarily with the projection of the self into an imaginal scene which is illustrative of poetic or fictional content. Often this self-reference takes the form of a visualization of the self, which may be seen as a more or less vague figure of the proper sex with little that is specific in the way of facial or other detail. On the other hand, this visualization may be very specific and clad in a copy of the garments the observer is wearing at the time of the report. I have in mind one young women whose self-visualisations are charmingly detailed. This visualized self of here is siways definitely placed and seen from a definite position. Sometimes this selfappears close at hand and life-sized. On such occasions the details are vivid and a complete description can be given of the appearance of the self, the style of hat, colour of dress, etc. At other times, the self appears far off, from half a block to half a mile. It then seems industring and reduced in size. An example of such self-visualization in response to a poetical fragment is given below.

The fragment reads:-

"I stand annot the ross
Of a surf-townersted shore,
And I hold within my band
Grains of the golden sund—
How few 1 yet how they croop
Through my fingers to the deep,
While I woop 1"—(POR)

And the reader's report :--

"Visualized and felt self on the shore, Opincal movement of waves. Saw and felt the sand falling through my fingers, sad relaxed fisching. Saw self distinctly from behind; self were white dress and by fisppy straw hat."

Self is often projected into a literary scare in terms of full or imaged kinesthese without visual accompaniment or with visualization of a figure other than the self. Sometimes, such attitude or movement appears currously objectified and at times is projected or fused with a figure felt not to be the self.

In the following report we have an excellent example of inner or sympathetic imitation; possibly under other than experimental conditions the organic complex would have been completely objectified and fused with the visualised porture, for it is obvious that introspective analysis may revent convolets esthetic absoration in the seithetic object.

The fragment concerned is one from Keats' "Hyperson," as follows:-

"Upon the sodden ground His old right hand by nervelses, lattest, dead, Unsceptred, and his realmisse eyes were closed, What his bowed head seem'd lat'ning to the Earth, Has ancient mother, for some comfort yet."

The reader reports :-

"Ferfectly clear-cut visual image of the old mun in the posture described. Tactual and kninesticute feeling of the sodden ground. Feeling of weight and relaxation in right hand. Kninesthetic feeling of bowed hand and of closed eyes. Auditory attention, with stram in ear."

Another reader, in reporting on the same fragment, suggests the possible loss of self in the object:— "Put self into the old man and slight tendency to get outside and one old man."

In contrast to these reports comes a third :-

"As observer I am north-east of visualized self and of old man. Visual self about one hundred feet off, looking at old man who is twenty feet farther off. No mitiation of old man's postum."

The extent to which a kinesthetic or organic imitation was felt and given aither a self-reference or projected into and fused with a visual or other object of consciousness varied greatly from subject to subject.

The individual differences may be best appreciated by a comparison of the reports upon a given fragment. The fragment, from Poe, follows:—

"Ghdcs spectre-like, unto his marble home, Lit by the wan light of the horned moon, The swift and plent heard of the stones."

Of thirteen readers four reacted with kinasthetic imagery, that induced to a varying degree identification with the gliding lizard.

Thus B:--

"A crawly feeling I saw a poisonous-looking histed withing his way into a raised marble hall which was slamy and mossgroup true ago."

And G:-

"I see a heard running among the stones on a clear moonlit night. I seem to feel the movements of the heard..., as if I were running around on my hands and feet watching for commes."

Of the other subjects, six projected themselves into the some. Three of these projections were visual and show no empathic qualities. For instance, I reports :--

" Visual of self standing, sketch "

And I:-

" See self lying on ground. . . . Lazard thirty feet away. . . . "

Two readers get a tactual self-reference. Thus A reports :---

"A caused wall among other rums on a hill, the faint moonight, the licard. A feeling that it is a very warm, still evening; the image of topching the hard." Of the three subjects who give no salf-projection, D's report is characteristic:—

"Varial and optical-movement image of dayk brard gliding toward broken columns, between whose shadows is seen the croscent moon."

M, a sthject who reports no case of visual self-projection and who, in general, has very vague athematic visual images, gives in response to literature a high number of empathin reports, perticularly in the form of kinesthetic empathy. He identifies himself, in kinesthetic terms, with waving flowers, pulpitating trees, flying insects and the like. For Shelley's lines :—

"Wheeled clouds, which as they roll Over the grass, and flowers, and waves, wake sounds, Sweet as a singing rain of allver flow."

M save the following report :-

"Movement in chest; spreading forward of hands in space. Fest not on ground. Become the cloud, seel of the cloud. The cloud, if conscious, would seel thus."

Again, in reading of a rain-storm, he reports :---

" I go out and am there. Emmathetic communicate. Dropping, I become the little drops; small and ethereal "

A fragment descriptive of a sea-shell evokes the delicate reaction :=

"Emotional tone of indocorne, Emfahlung. I become blue and change to silver."

Summarizing, we may say that self-projection may occur with its not empathic. A visual self-projection may be of this sort. The visualized self is but a spectator of the some Such visual self-projection may become empathic when fused with it are projected kinesthetic, tactual, or organic images. That frequently such fusion fails as shown by those instances in which the subject feels in person the kinesthetic experience and does not project it into the visualized figure of the self. The objectified kinesthetic or organic fectors may, on the other hand, fees with visual material other than that of the visual self. The visual objectification may take form as a purson not the self or asspuns the form of object of the inorganic world. Sometimes there occurs kinesthetic consciousness

without visual accompanionent, and such kinesthetic consciousness may or may not be objectified.

It is most interesting to note that one may aft from these reactions the three types of response described in the proceeding chapter, not, however, overlooking transitional forms nor the general complicatly of the situation as a whole. There is, first, the reader whose attitude is detached, that of the critical and, at times, diametersted onlooker or spectator. Such a reader often projects himself virially but when he does so he appears on the outskirts or margin of the scene. His reactions being cool and impressonal are often very constant and may have critical value.

Secondly, there is the sympathetic participant who takes upon himself the emotions and conditions described. There is intense warmth of personal conscouraces, rich organic and definitely agoontric application. The reactions of such reagents are spt to be variable, incalculable, since they may be blocked by momentary moods, by the dispositional tendencies present at the time of reading. A visual self-image may or may not constitute part of the reaction.

There is, thend, the render who with unimate reshastion of the structure or emotion projects it beyond himself as a characterization of the object. This third reaction would seem to be the esthetic reaction for exactions would seem to be the esthetic reaction for exactions. It is, in its press form, the rarest of the three and it interplays with them. Visualization of the self is very infrequent in the third form of creation for in this case the warmth of personal realization suffuses the object, rather than the person reacting.

At the risk of wearying the reader I would cite a few further introspectious, that give point to these typical differences.

One of my respents, whom from long acquaintance I know to be temperamentally detached and critical, summarises her reports upon her reactions to a series of emotional fragments of postry thus:—

"In all projections I am there as a speciator. I see the surroundings. I stand to the left or in front. I am indices " Another reagent finds herself, again and again, a speciator only:—

[&]quot; Hers, I am," she writes, " an outsider, watching the children

st play. I am reacting put to chasis the scene and watching it. And communiting upon the fifth stans of Rowmings it. I also to the standard standard in the standard standard in a sort of below looking up at the turnet. Out of one of its windown a grif with yellow harr in lessing. I see her but the does not see my

How greatly such a reaction contrasts with the report of the participant who becomes part of the scene and writes :--

"Warting in the turret, watching the samet. Very pronounced kinetathetic sensations. Exultimat mood, wildly harror."

The key-expression in the reports of this latter reagent is the phrase, "In the midst." She is "in the midst." of the gardena. "in the midst." of the desert; in the mountains.

The third type appears in the reports of the resider of "Andres del Sarto." who writes:—

"Faint visual sense of two figures at window. I see the somes mentioned from his standpoint and into him I project the empirious which I fiel."

The following reaction by the same reader to Swinburne's
"A Foresken Garden" (fifth stance) shows not merely sympathetic participation, but also an esthetic evaluation of the soons described:—

"As my eyes go seaward there is a feeling of identification with the lovers but with a prophete realization of the fathity of passion and of the hundred years that are to come."

Müller-Freienfels' "Spectators" would, in our experiments, aspect to fall into two classes, only one of which is thoroughly systhetic. Between the two attitudes of detachment there lies a world of minnate experience through which the northicont tide Mitsoides is in morrors of measure.

Dr Martin's records' also contain examples that show plainly this difference in reaction between spectator and participant. Dr Martin concludes that the localization of the vision is formate plantable, for example, the observing of a scene from a bird's-eye point of view or the seeing of a hit of a situation that lies behind one. The material with whach Dr Martin was dealing unknobably suggests such an inter-

Die Projektionsmethode und die Lokaleation vurstlier und anderer Vorstallungsbukker. Zich. f. Psychol., 52 (1914), p. 321. pretation of her data. In my experiments the form of selfreference was, however, determined not murely by the spatial demands of the object or the situation visualized, but also by the kind of sethletic reaction characteristic of the subject.

We realise that through some trick in handling it mathetic content involves objectivity. The mere swamping of the self in violent emotion, the melodrames of life are not exthetic. But asither is the cool weighing of emotional symptoms by the clinicism. Only when the object itself takes on the subjective reaction does enjoyment become suffused with eathetic beauty. We pass from detached intellectual evaluation of content, through emotional realization, into esthetic objectivity. Subjectivity of experience is an essential intermediary. And this subjectivity involves personal reaction, emotional realization, unique experience. From moment to moment we shift our attitude. At one moment the cool detached observer. we weigh attractions in the balance of logical radement; at another, we yield to the personal phase; at a third, we find our own life colouring the universe, we give of our inner wealth to the world at large. When the personal factor, the practical interest, loums too large we cannot command detachment. Our passionate demands as individuals deny us the achievement of the esthetic attitude.

The new psychology has familiarized us with the notion of art as a compensatory substitution for reality, as one way of gratifying connected or at least unhalfilled desires. But art should not be identified too uncritically with mere daydreaming, which is described us an expression of wish-thinking in contrast to reality-thinking. Literature or art that is little more than a sublimated from of wish-thinking encourages the assumption in reader and spectator of the participant attitude and hence stops thus side of great art.

In its break with personal practical motives, great art achieves a detachment which aillies it with such realitythinking as we get in science. Wish-fantasier—spun by in insano—fail to achieve this objectivity and detachment and are not art-products. And the wish-fantasies of social reformers fail in artistic entenne for the same reason. Utopsan romances are usually of historical rather than sethetic interest.

One may, in fact, find a very close relationship between the

authstic and the scientific attitude, since both Involve impersonality, objectivity of point of view, interest in reality. The detachment of the experimental scientist and that of the artist frequently exasperates those undividuals whose attitude is always that of the participant with practical interests. They demand, not criticism of life, but immediate reconstruction of it. But the attitude of detachment makes possible the most fundamental reckouing with reality and great at achieves this detachment without losing its smotional content.

In studying adi-projection we approached the subject of objectivity from the standpoint of art-appendation. In the next chapter we shall comader the technique by which the artist seeks to give objectivity to personal emotion, through creation of what has been called previoual designer.

CHAPTER XXVI

HOW LITERATURE ACHIEVES ASSINETIC OBJECTIVITY

In daily life we are largely preoccupied with Close-ups. Only infrequently in our worksday hours is there a choping of practical interests which results in seathern detachment. Often the sesthetic attitude is initiated only to be rudely shattered. Perhaps catching a glimnes of a lovely young girl we find ourselves rant away in contemplation of her loveliness when, deftiv, she pulls out her mirror and a powder-puff. She has destroyed the illusion. Unless, perchance, she be dancing across a stage to music, in which case she may powder her nose in public-if she does it rhythmically and not too efficiently-and still remain an object of authors interest, because so many of the threads of daily hie were chosed with our ticket when we entered the theatre. A beautiful woman in life rarely creates purely authoric effects, even when distanced by all the devices of ceremonial or those of stage-craft. She too inevitably arouses in men the personal, the possessive attitude: in women that of curiosity and envy. Not even when her beauty is embedded in marble or reduced to a mystery of light and shadow is it sure to give an imperantal effect.

Bullengh uses the expression phychecal distance as a figurative description for all manner of ways by which personal experience may be projected and made asthetically valid. Distancing begins in actual spatial and immored separation from an object, as in the case of a thunder-storm that is viewed from a distance or after a lapse of days; it onds in the most delicate reaches of sethetic remoteness. Psychical distance, Bullough explains, is obtained by separating the object and its appeal from one's own self, by putting it out

[&]quot; Psychioni Dutanco," Best. Jour. Psychol., 3 (1912), pp. 87-118.

of gear with practical needs and ends. Distance does not imply an impersonal, purely intellectually interested relation such as that of the scientist's. "On the contrary, it describes a serious relation, often highly emotionally coloured but of a peculiar character. Its peculiarity has in that the personal character of the relation has been, so to sneak, filtered. It has been cleared of the practical concrete nature of its appeal. without, however, thereby lonny its original constitution." There are two ways of loging distance in art. The artist may "under-distance" or "over-distance"—" the verdict in the case of underdistancing is that the work is 'crudely naturalistic' 'harrowing,' 'repulsive in its realism.' An excess of Distance produces the impression of improbability, artificiality, emptiness or absurdity." What is most desirable both in appreciation and production of art is the "atmost decrease of Distance profess its descriptorance." This, Bullough calls the "antinousy of distance "

Curious individual variation in capacity to distance experiences are found. For most of us this capacity is distinctly limited. Few of us can project violent personal emotions. A realroad wreak in which one's mother lost har life would resist one's fifter to distance it and use it as literary material. If our next-door neighbour chance to be a post or short-story writer who utilizes neighbourbood happenings or his own sentimental normanous as therary material he seems to some of us to be lacking in delicacy, in sensitiveness, when we a matter of fact he simply possesses the gift of instancing his personal experiences in a way we others are much too self-centred to achieve. The absolutely egocentric person in whom such distancing his impossible is thrown into agenties of self-consciousness at thought of publication of a love-letter or an auto-biographical confession.

Always, for me, a foreign language distances impressions always, for me, a foreign language distances impressions distance; French, the next greatest distance; French, the next greatest. Something remote and charming clings to the ideas that come to me through the medium of these two languages. Thus it was that when, one time, I changed, in a document of the ferminant movement by a French socialogist, upon an account is suffrage in the State of Wyconiag, and the first woman-jury

of the world that had been for me a household tradition because my father was an atterney in the case, a sudden shift in values took place. Seen through the perspective of an alien's eyes and a strange idiom the matter-of-course situation became literary, runsantic, with the glamour upon it of remote ways and daring philosophies. Always before I had thought of equal suffrage as a proposition which neight ruffle one's logic or temper but never one's seathetic suscertibilities.

In the conception of psychical distance we find a solution of certain old quarrels between realism and romanticism. Obviously, there is no experience which, theoretically, cannot he utilized artistically, provided the artist knows how to distance this material for his public. Individuals in whom the power of distancing is slight will demand idealized portravals of life and refuse their sanction to the inclusion of trivial incidents or communicace characters. To such readers a chacking mother-han as the main symbol in an Imagist poem and the sordid characters of the Spoon River Anthology will seem to violate certain eternal canons of art , the same symbol and characters will thrill other readers with a sense of the all-inclusiveness of beauty and its multiform aspects. Modern chizinal studies of sick souls seem morbed to readers who do not distance readily such sorded experiences as those undergone by Claude Fisher in Cyril Hume's "Cruel Fellowship." Only because of its double filtering through the consciousness of two persons, that of the povelist and that of the friend who presents him with a character for a story-book is the unhappy wretch of the latter novel made a possible subject for art.

The concept of psychical depunes clarifies also the problem of the relation of morality to art. All sensations when property distanced become material for art; no question as to their morality or immorality can arise for such a question involves a thorough-going practical stirtude. We share the smotions of the magnificent hacipt or of the drah woman of the town when distanced by the art of the novelist or the playwright or even by geographical or racial perspective, although we should peas both with averted eyes on the streets of my home-town.

The actual psychological mechanism by which psychic

diviance is created is unknown. Experimental investigation is probably possible but its procedure rests in the hands of some ingenesus scientist of the inture. A point of departure may be found in the further analysis and explanation of the spatial characteristin of the image, as we have stated in an earlier chapter. Desence us, perhaps, more than a metaphorical escription of what happens when authetic objectivity as schieved. The trance-feeling which in certain respects is akin to the feeling of distance may be conditioned by optical factors, such as the steady firstiles of the eye during visualization, or by some other form of ragid knuesthesis when other states material is concerned.

Obviously we distance certain experiences much more readily than others, largely those that are already spatially projected. Visual and auditory impressions detach themselves easily from personal interests: not so organic and tactual sensations and sensual passions. The loveliest of hues never tues at the heart as a buby at the breast : the most polynant strum of music never strags as does contact with naked flesh. It is always, however, the organic resonance that gives emotional warmth and life to art. This is the hard thing that the artist must achieve: he must distance his own vital and intimate experiences. The pragmatic sanction for his work is found in his creation of a vaster emotional universe and he succeeds in proportion as he distances the stuff of life freelf. He must, however, reckon with his public and a utilitarian and conventional public will recent an attempt to handle the brutal, the ngly, the commonplace, in its stark notity; it will demand a veiling of his a shift in values. It drives him to the technical conventionalities of art, the nedestal and cold whiteness of sculpture : the framed musty landscapes and idealized portraits of pictorial art, the cadenced werne and alian diction of postry; the haroic figures and remote events of the enic novel.

Literary technique includes numerous devices for achieving distance; both form and content may contribute to over our under-distancing or to its nice balance. One recalls, for example, the use of time-perspective and of spatial perspective as used by post, dramatist, and novelsis. The one sentence, "Some time before the full of Bubylon" confert eightener on

a drama. Because the stury "The Crescent Moon" is laid in the lancountile remoteness of South Africa the bound that the us to our own environment are loosened. Vague generalities have a distancing effect. A dark forest under the eternal stars suggests a degree of distance lacking in a Halsted drugstore in Chicago. "They," in Kipling's story are mysterious visitants from another world; Rossetti's "Jenny" is very human

Passion is distanced by a cold setting. The bitter coldness of St Agnes Eve in Kanta' poem contern extreme remotances upon a firewart love-stury. Highi loves small freet and snow have an excuse for being one mannet find in hot midsammer nights. Note the setting of Masterlinch's "Pélléas and Mélande":

"It is very gloomy here. It is true the ctartie in very cold and very sembre. It is very cold and very deep. And all those who dwell in it are already old. And all the country scene gloomy too—with all its forests, all its old forests without habt."

Always an ocean-setting, with its infinite expanse, its mista, its avesty of storm, or starist calm, has had unique power of producing sethetic distance. No man apparently so bruisl, no incedent so commonplace as to withstand the alembic of the sea. Prose characters and plots become saturated with poetry in the sea-stories of Courul, Massfield, O'Nell.

May Sinclair, in "Three Sisters," has described beautifully the creation of swithstic remoteness by natural effects:—

"The moon was bidden in the base where the gray day and the white night were mixed. Acrose the bottom on the dim, watery given of the eastern slope, the thorn-trees were in flower. The bott are held them fire still water. It quivered invanishy, loosening their somit and scattering it. And of a saiden the saw thom as it throws back to a destance where they stood epchanted in a great stillness and risarross and a piercing beauty."

Actually Distance becomes a matter of the most delicate of comprensure. If the poet uses the harguage of the gutter for must reampulate his suff so as to create remotences by other mesus than delicion. If the playwright permits his characters to make an informal entrance from the body of

the theatre, to cross the curtain-line, or to address the audismos directly he must centre distance by other means. Engene O'Neill's "The Rairy Ape," which surrenders many old devices for securing distance, has recourse to other original ones, as, for instance, the introduction of the markester of Fifth Avence, those mechanical groteque caricatures of atterchared-paraders, who see nothing, hear nothing, comprehend nothing.

A profitable history of stage-craft might be written from point of view of distance, beginning with the more than-life-sized figures of the Greek drams, draped and bealthned, with their rigid masks and their monotonous voices obtained by the use of a mouthpiece in the mask and ending with the phantom effects obtained by the new art of stage-lighting, by gausy curtants and mitroring wall. Many of the convenience of the modern stage which had seemed to us inevitable, as for example the falling curtain, are being treated with some lightness by recent adventurers in play presentiate there have been attempts to break down the invisible fourth wall of the stage and to bridge the gap between stage and enditoring.

In some of the modern mystery plays the participantrather than spectator—attitude is deliberately induced. The
authence is tricked into behaving that a real morder has taken
place on the stage and that he is being detailed as witness
in the case. All psychical distance is rudely shattered when
you find polinemen stationed at your elbow and cycing you
suspiciously, while the Chief of Police, leaning over the edge
of the stage, shouts that no one will be permitted to leave
the theatre until the mystery of the marder has been cleared
up. Such crude participation in drams is sometimes entertrained but not often sethetic.

Distance may be shufted with great rapidity. The writer may play with it winniscally, over and under-distance in rapid adjustment and readjustment of perspective. From such shifts there may result a faciling of Indicrotas incongruity owne, such manipulation of psychical distance may cause a rapid shuntang of sanctional true from one situation to another espectially remote. Incongruous effects are planned with himmerous intent in the musical councily where the modernized American darky or an up-to-the-minute satesman stroils through the spiendours of the Court of the Quote of Sheba and exchanges current siang with the Criental ballet, Extracrdinary manipulation of distance occurs in Dunsany's "A Might at an Inm." in which his grotesque productous Idol—distanced in every way—comes to play a part in a close-up of a cockney English wome. The fascination of "Toffy" in the same play is his combination of the and far, of sortid and heroic qualities, a combination that has given distinction to many regues in interature and has, occasionally, in life conferred a charm upon the great erminal

It is, however, inadvisable to shift psychical distance very rapidly. Julget dimbs down from her estatisticate to take her norman call at some risk. In smatter theatricals knowledge of the personal history of the members of the cast operates to make consistent distancing a difficult matter, particularly in love-sense. Often, too, the smatters breaks character, a thing that only the great comedian can do successfully. Not but that the amateur sho stimulates langhter by this mean—fatal laughter!

In much of our reading we are content to assume the participant attitude and do not sak the writer to manipulate psychical distance in a masterful way. But in poetry except when we are concerned with merely sentmental or sermotizing verse we sak usually, for a distanced effect. Its ampleyment of measured thythms, talked rimes, subhmated characters. and a peculiar phraseology has given it great psychical distance. The effort of original geniuses to reduce this distance by such a device as the breaking up regular rhythms, through introduction of commonplace characters, by the use of the idioms of daily speech and the language of the newspaper brings protest from many sources. It is again the problem of reducing durance without loans it; and the seathetic acquitiveness of the reader as well as that of the post is involved. Contemporary American poets have played with psychical distance in illuminating ways. "North of Boston," "The Spoon-River Anthology," "Chicago Poems," experiment on the greatest possible reduction of distance. Frost, at his best, works a miracle of near and far vision.

A curious paradox must be noted here. Brutal or realistic poetry that smells of the messes or of the dusty attics of life will make its appeal, in the first instance at least, and to the most highly sensitized readers, to the esthetic aristocrats. Only the nost sensitive among men will distance crusting realities, as Sandburg distances them. Yet if man is to learn to live secretely in this simpendons new world he has himself created he must acquire this secret of detachment, and find authorities values in modern machinery, modern industrial war and, above all, in modern scientific procupations. He must develop a sense of the illimitable into which Main Street opens at arither and. To help him do this is the great function of novokist, dramatist, and poet.

CHAPTER XXVII

THREE STORIES

Is, by chance, your morning newspaper should contain an account of a peculiarty atrocious murder, say the waiting-up of a living man in a temb, his death by slow starvation and prolonged agmy, the paper would full from your clanched hand. "Fiend!" you cry. You understand for the nonce

the red passions of the mob. You throb with moreal revealation. In the mart Sunday Edition you find the murderer's life laid bare; you begin to probe motives; to glimpee a background. Little by little your moral revulsion becomes a firstness which, still later, drives you to the court-room. But the modern newspaper and the modern trial in court rarely achieve for you complete objectivity; for this you must go to literature where as it chanced this very type of murder has been the dimax-event of these superhitives stories: Poe's" Cask of Amontillado, "Balizer's "La Grande Bretische," Wharton's "The Duchoss at Prayer,"!

Similar in theme and in emotional otheration, jealensy, the three tales handle every differently the problem of asthetic detachment and therefore afford excellent material for examining the matter in detail. A brist risumé of the plot, esting, and characters of each story is necessary.

First, Poe's "Cask of Amontillado." Montresor's enemy, Fortunato, is entired by subtle playing upon his vanity into the chill categories of the Montresor that, ostensibly, he may pees the judgment of a connoisseur upon the genuineness of a cask of Amontillado. Lared on and on, beneath ever lower arches, he steps at last into the ultimate niche, the tiny interior recess of a dim bomo-lined crypt, and, of a sudden,

³ Sentence's Magazine, all (1900), pp. 151-164. Quotations by permanen of Charles Sentence's Sous and of the author.

is fattered by Montresor to a granite wall. There follows swift and skillind walling-up by Montresor of the extrasor to the niche; meaning cries from Fortunato; shrill acresme that turn into low laughter; and a last agonized appeal: "For the love of God, Montresor." Then a torch is entinguished, there is a jingling of bells and the placing of a last stone. "In pace requirement!" Nothing textures about such a ploc. With incredible swiftness and directness it moves toward a graftle climar.

The setting of Pee's story is, as it were, eiched in black and white. The one word "Rome" appears under the title; the time was "one evening during the supreme madness of the ramival season." For contrast, we have the muttay gard, the tight-fitting parti-coloured dress, the canical cap and bells of Fortmato, and the damp chill catacombs of the Montreeces where the nitre "hangs like mose upon the vanits" and the walls are lined with human remains.

There are only two characters in the story: Fortunate, complicant, managering, the dape of his own vanity; and the crafty, mawn, unhuman Montreact, with a double-edged wis but a piercing singleness of purpose, who savours delicately the gradations of Fortunato's fatness vanity and his childric credelity, but for his own part shows no blurring of latred by ofty, no healthon, makes no anology.

In contrast to the swift movement of Pos's tale, we have in Balaze's story a leisurely unwinding and untanging of a mystery rooted in lifled; towe and ear-jeatousy. The story is pieced together as a picture-puzzle, highly coloured, infinitely fascinating. A fragment here, another there, slips into place with the whole picture lies before non.

The story is many times filtered in the stilling, first of all, by the remaining temperament of a goasipy Doctor who, in reminiscent mood, counts the terrible histories in his repertury that he may choose the right one for an after-dinner story. Then, in smooseston, as introduced by the Doctor and presented indirectly through his personality, we have the contribution of a notarry, a long, stim, black-dothed man with small pottate beard and livid face, freeked in an old cost but with a duamod in the frill of his shirt, loquacious, officious, heavy-witted: next, that of a landsidy, jovida and stornt, "eyes full

of secrets"; last, that of the lady's maid, whose transparent personality permits a shift to an omniscient point of view, and a oundersing of the narrative.

The Doctor after telling of his own discovery of a deserted mansion called La Grande Bretiche, quotes the notary's account of the harrowing death there of Courteset de Merret and the making of a will that forbade entrance to the manaion for fifty years. He gives the landlady's characterization of Monsieur de Merret, bandsome, tall, with a temper of his own, and of his Combase, the most charming and richest woman in Vendone, a real iswel of a woman. It is the landlady who tells also of a former lodger of hers, handsome de Feredia, a Grandee of Spain. She recounts his midnight excursions, and his final inexplicable disappearance, which, she surmised, was somehow involved with Madame de Merret's trouble, for a crucifix of shony and silver seen in the possession. of de Feredus is like a crucifix buried with the unhappy Comtesse. Last of all there is the tale of the Comtesse's maid through whose eyes we see Monsieur and Madame de Merret together on a night when he has returned home unexpectedly. We sense the sudden outflaming of suspicion on his part that her closet harbours an intruder. We hear her calm lie that no one is in the closet, a lie sworn too on a Spamsh. crutifix, and a second lie when he questions her when and how she obtained the crucifix. The husband summons a mason, bids him wall-up immediately the door of the closet; he promises him a reward for swift work and for silence thereafter. The Comtesse manonivres to suggest that in the walling-up of the closet a crevice be left at the bottom of the door; and for one instant we slimpes the dark face of a man. with firry eyes to whom she signals hope. At dawn, Monsieur departs with the crucifix to test the Comteme's story: he returns to discover her furious efforts to demolish the wall that has just been built. She faints in terror. "For twenty days that man remained beside his wife. During the first hours, when sounds were heard behind the walled door, and his wife tried to implore mercy for the dying stranger, he answered: 'You swore upon the cross that no one was there."

The setting of "La Grando Bretèche" is as carefully

planned as a stage scene—an isolated brown mansion visible only from the crest of a mountain because otherwise hidden by the overgrowth of a neglected garden in which it lies buried. Box-edgings run wild, fruit-trees are untrimmed, weeds drape the river banks. "An invisible hand has written the word "mystery" evenywhere."

Mrs Wharton's story of "The Duchess at Prayer" is an old man's memory of a strange tale of two hundred wears. since, told him by his very ancient grandmother who was an evewitness. It is a tale of an enquisite laughter-loying young Duchese, tern from her joyanes in Venice, gay city of music and condoles, and imprisoned in a beautiful but remote villa by the Duke, her husband, who is for ever closeted in his hisrary, When to this villa comes a young kinsman of the Duke's, youth turns to youth, laughter to laughter, a circumstance which arouses the Duke's cold anger and leads him to banish his cousin from the villa. Later the Duke also departs, and the Duchess, alone, with no companionship save that of a sour chaplain, the Duke's spy, takes refuge in religious devotion. She spends hours in graver in the chapel, just off her chamber. and, in particular, develops great passion for a sacred relic in the cryot under the chapel—a stone coffin containing a thichbons of the blessed Saint Blandino. That she might at will descend into the crypt and kneel by the coffin, the Duchess had the stone slab in the chapel that blocked the entrance to the crypt replaced by a wooden one.

One My-Day the Duke returns to find the Duchess, robed in shot-sulver and pearls, just gone to the chapsi to say a hisany. Behind the Duke's coach is a long string of mulas and usen drawing a cart carrying "what looked like a kineding sigure wrapped in death-clothes." It proves to be a tribute by the Duke to the puty of his Duchess, a sculptured image of her "to be placed before the chapsel altar jout over the mirranes to the crypt." Vain the Duchessr prayer that some other spot be chosen for placing the image, so that the opening so the crypt be not sealed up: vain her prayer that one night more be hers to spend in devotion by the side of the sacred relic. Amd her weeping the crypt is at once rendered inscossible.

Then the Duke bega to sup with the Duchess in her

chamber; an extraordinary fasat that ends with the Dake's toast to his young kinaman, "I drink to his very long life and you, Madum." And the Dunhes, "And I to his happy death," the empty goblet dropping from her hand as she fall son downward on the floor. She chied after a night of horrible suffixing, teeth locked so that "our Lond's body could not be passed through them." So cands the take, except for the report of a Rith makid who with her own eyes saw the suffing face of the status of the Duchess over the crypt change to one of brosen horror.

The setting of "The Dunkess at Prayer," is exquisite. There are lovely broid-capes gifurned from the loggia of the deserted villa; jewelled interiors. In the gradens, "An qualmos of dahilas overcun the box-borders between cypressas that cut the sunshine like besselt shafts." Within, "ebony cabinets, with colomastes of precious marbles in cmming purspective, alternated down the room with the tarmined efforcements of gilt crusples.—."

Every character in the story is sharply etched. The Duke, "high-mosed and cantious-lidded... when the Duchess lengthed he wanced as if you'd drawn a dismond across a window-pone. And the Duchess was always laughing."

The Duke's consin, "beautiful as a Saint Sebastian, who sang his own songs to the Inte in a way that used to make my grandmother's heart melt and run through her body like mulled wine."

The Chaplain, " who brings a sour mouth to the eating of the sweetest apple."

Very beautifully these three stories illustrate various devices by mesus of which life is transformed into art. Told to us so a life-incident, we would dismiss Poo's unbelievable narrative of Montresor with the shuddering comment, "Mad I'm Balage's story of passion and crime would impure us as the moledrams of the Sunday newspaper to which we referred. The vennemous jealousy of the decervier hashand: the hearty, the deceirfulness, the agony of the Comtesse; these, in other garb, are the timesdibure passions of the for which must pay trumendously. Wharton's Duckess is not so manifestly of our world; she is Beauty external be branched to the source of th

In the artistic use of each material, our authors illustrate various possibilities. They have created aetherite detachment to a very unequal degree. Poe's story is given little psychical distance. It is told in the first person, with no softening of perspective, with no filtering of the trembadous passion, and hence can make its appeal only to these readers who possess natively great seatheric and imaginative capacity. Such readers are able to give distance to naked life and to them Poe's given is supreceedy great.

Balanc's story is distanced in a member of ways. The manistim which hides the crime is overgrown with weeks, and in this way a removeness in time is suggested. The story is told circuitously; it is, after all, only bestsay, goady; it is a mystery, differed through the imaginarity and sympaths is a mystery, differed through the imaginarity and sympaths with it is distance, Balanc's story leaves the render shakes by life just as the women at dimer-table where the Doctor told the tale were silenced by the terrible démocrament of the story.

"The Duchass at Prayer" is given objectivity in every way possible. It is set off as a picture. There is a datached introduction suggesting remoteness, a remoteness accented by the towist's absorption in the lovely Italian scene visible from the longing of the shuttered villa he is exploiting.

"Below the terrace, where a chrome-coloured techen had absolute the chalcrands as with fine depision of gold, your profess were strown with white vallager like stans spanging a sunsister dust, and beyond these, fold on fold of blue mountain clear as gaues against the side."

The old cavetaker of the villa tells the story, again with the effect of distance, perspective, detachment. "He was the oldest man I had ever seen; so sucked back into the past that he seemed more like a memory than a living being. ..."
In every way a very great remoteness in time is stressed. The artificial roses in the chapel ween "grey with dust and age, and under the obverbby rosettes of the vaniting a bird's most clung." The villa is "composed as a dead face, with cypresses fanking it for candies. ... No one comes here, nothing changes and the old memories stand up as distinct as the status in the surden. ..."

An accentration of distance in "The Duchess at Prayer" is produced by the presentation of the Duch and his Duchess in the first instance as portraits, from in the deserted palace. Again, there is an increase in distance given by the touch of the supernatural in the strey, the inexpliciable shift of expression on the face of the strue of the Duchess, after the living prototype realized the awith price ahe and her lover most pay for their hours of soluph:

In one detail, these three so different stories, agree; the same note is sounded. The cask of Amonthiado is scorted in the châr vanits of the Montresors; the notary of Vendens dwells upon the "gleosid death-chamber" of Madame & Marret; says the old, old man of the Duchess' chapel, "Thus is a bad place to stay in; we one comes here. It's too cold." Thus is hot passion at once made more intense and yet distanced.

To recapitulate. Poe's story is naked passon presented starkly; Baizac's is the old wine of gosspi mellowed by age; Wharton's is a purture in a prevailed frame. The respective preference will be determined by the case with which he is sale to desinnes life, to see it detached from his own personal emotions and sensations.

CHAPTER XXVIII

HYPNOTIC ART1

This grave-digger in "Hamlet," the little prince in "Péliéus and Mélisande," the Ancient Mariner—that grey-beard loon why is it they impress us as wise with an isumpportable wisdom? They are only a clown, a little child, and a madman !

A singing cadence, a rhythmic dance, a re-school refrain, a magic phrase cast spells upon us. How? They are but sound and lulling movement? Gorgous palaces are seen beyond dum shadows; phantom ships sail phantom seas; beauty beckens to us from forest siske; we wake as from a trance. Again, how and why?

"Hypnotized, your Honour," is a pice which, when custored by the prisoner at the bar, thrills us with a sense of psychic mystery; hut when it is cited in explanation of our own experiences of fascination, we find ourselves questioning its wildity Does art really peartise hypnotic spells? Are poet and dramatist ready adapts in the art of scientific magic so that they can capture our fancies willy-nilly, imprison in their own worlds of fantasy, and bind us to the strange and halting philosophies of guidless folk? It is indeed an arresting conetton.

The hypnotic state is characterized, chiefly, by absormal suspetibility to another of us has personal acquaintance. All of us, all the time, are open to influences from without. An idea, a so-called suggestion, penetrates our defences and suddenly we are tapping a foot in time with a whistled tune, or passing on a yearn that is circulating an anchence, or following a circus parade or a political one. We are inflating our abserve or

¹ This chapter in slightly different form appeared originally in The Bookman, Vol. 23, wefler the bitle "Liferary Hypersiam" (copyright, 1919, by George H. Doran Co., all rights reserved). Reproduced by permissions.

depleting our pockets. The daily triumphs of fashions and creeds illustrate our dependence upon external influences, our uncritical following of sundry leaders. But normal suggestibility has very definite limits. We may indeed follow our leader but always with a chance of rebellion if our dormant respon stir. If his antics become too fautastic, our fear of appearing ridiculous awakens: if his egutism becomes too pronounced, our own is put on the defensive. Possibly he violates some deep-seated prejudice or moral premise of ours ; hence the parting of the ways. But in a state of excessive suggestibility our reason may fail to enter protest even in the face of most ridiculous assertions. A national cruze or a violent mob shows the outcome of almormal suggestibility when our critical faculties are in abevance; as they are in dreams, for instance, in which we commit murder with never a twinge of conscience, or butter our beautifully written loveletters with lemon selly-and never a smile on the part of the complacent self.

Now the hypnotist knows how to throw the ortical faculty our of gear. He induces a state in which one's inhibitions are inhibited. He may, for example, [ull you not a conjected by fatiguing the attention by the steady drip-drip of water, or startle you not docality by transfaining your attention by a sadden flash of light. In any case he puts you into a condition in which you believe whatever is told you and act chosefully on information received. You are called a dog and you bark in ascent. You are called Napoleon and you strike the attitude of the Liftle Corporal You are said to be struck by lightning and your features freeze in an expression of horror.

Increased suggestibility is the distinguishing mark of hypnosis. Other symptoms there may be but authorities differ as to which of them are essential, which merely artifacts of suggestion. It will suffice to mention such disputed symptoms as catalepsy, hypersensitivity, poet hypnosic amnesia, rasport, or the imperviousness of the hypnotized to any suggestions other than those emmanting from the hypnotized to Dudoubtedly, during hypnosis, the above effects may be included by suggestions as well as such phenomena as positive and negative hallucinations, hypermensis, and anesthesia.

Rapport which we shall have occasion to refer to again in connection with literary suggestion merits particular attention. It is the crimion of many investigators that it is the outcome of autosuggestion. The alseping mother is as support with her sick child although beedless of the movements of the healthy urthin in the next cot. A sleeper may be an rapport with his clock and heed its strokes although deaf to the rearing of the storm. One falls into the hypnotic sleep with the thought of the hypnotist uppermost, so that one is awake to his actions and words although oblivious to those of other men. Even in the waking state such a narrowing of conacionanesa occurs. The lover is an reptort with his mistrem and alive to variations in voice or manner that no one else observes. The ecitiasy of love would seem to show repoor at its highest. The dears for solitude a desz, the restlessment under distractions, may finally pass into a restricted conacionemets. This involves not merely an amazing sensitiveness to the glances and the tones of the beloved, but also, at its extreme, an insensitiveness to the presence of others, an absorption so complete that it may lead to those revelations of passion that issue so often in tragedy.

The psychoanalyst gives us a different theory of rapport in terms of emotional suggestion. The affective enhanced in parents is transferred to the hypotist who becomes a surrogate for the father. Whatever enhances the prestige, or authoritativeness, of the operator morasses this submissiveness, this docality, this accessibility to commands.

Let us now consider briefly the different ways by which the hypnotist seeks to induce hypnosis. He may suggest sleep; thed upon the idea of drowsiness till drowsless ensues. He may startle his subject into an abstracted condition by a sudden explosion, a dashing dash of light, an authoritative command, an induction of the father-dark complex manifoned in the preceding paragraph; the attitude of submission to authority. The hypnotist may employ monotones stimulation, such as will induce fatigue of attention. Falling water, a humming induction-onl, gentle strokes may serve his purpose. He thus induces the mother-complex, the acquescence granted to love, citall-lies decility.

Of the latter method of unducing light hypnosis, nature

makes suitle use. How sommolent her music I The drops of rivers, the purring of brooks, the mutmurg of the wind in pine-trees, the drowsy lmen of sammer leasers! I vary skillfully have nature's hypnotic influences been utilised by poets who have had recourse to woods and streams for impiration. The oracle of Dodons, where the rustling of what through groves of oak and beach became articulate, has never been alterood. At other times, nature spells us in other fashion. She may facelinate us by the glitter of samight in a dewdrop or by the scintillation of frosty stars in the velvet black of a winter sky; she may paralyse us by the crush of sudden thunder or the canocasellog of tempest.

Let us turn now to literature. One purpose of art is to plant its suggestions in a fertile soil; mother purpose, to plant its suggestions a local habitation and a same; to so embody its visions that they become restitute. It can best accomplish its first purpose if it can throw the critical faculty out of geat and induce a condition of abnormal suggestibility. It can best accomplish the second if it can create images vivul to the point of habitations. But does art know any way of inducing a state of abnormal suggestibility so that the imaginations of writers, of painters, of scalptons may become read to us?

We succumb to suggestion only in a non-critical mood. The art-critic fails in absorption and may fall in appreciation simply because of the attitude he assumes before a work of art. But gentuses have their own way of disarming the criticisms of the normal reader or spectator. They write a fairy-tale or tell a story of No Man's Land. And who ever heard of criticizing a fairy-plot, the traditions of the world on the other side of the moon, or a rossance laid in Ruritania ? We appreciate the insciration that puts wise savings into the months of fools or babes or madmen | We never go to the trouble of proving that a fool or a madman is in the wrong. Why should we? Hence the uncritical way in which we nonder the wisdom of clowns: hence the force of the lesson of "The Ancient Mariner" coming from the line of the "grey-beard loon"; hence the communicate effect of that incomparable gome in "King Lear," between fool, madman, and sentis king,

But there are ways other than flight into realms of fautasy or the employment of defenceless folk, by means of which one may induce the non-critical mood, the mood of acceptant. The poet may actually create a state of drownines, one of semi-hypnosis. He may suggest sleep; or fascinate attention; or intigue attention by means of a prolonged and monotonous stimulation.

Duncing charms us by its rhythmic recurrence of movement seen or movement felt. Prolonged, such stimulation completely hypnotizes the dancer. Thus we may explain the ecstacy of the dancing dervishes of the East: the soothing infinence of the rocking cradle: the fearingtion of the vibrating swing. A nation may dance itself into religion or out of neurosia. Poetry and music make use of rhythmic sound to induce dreamy contentment and acquiescence. They utilize not only the scothing movement of cradle-songs and the obsession of singing verges, but also the best of martial music and of cold measures. In some, the ricoling accompanies at of an instrument, like a brook underground, may enforce the expression of the words. African music is said to be absolutely hypmotic in effect. It is somnolent, sombre, and voluptuous And the reverberating drum of African forests-how potent its affect we may judge by the mesmeric spell it casts in O'Neill's " The Emperor Jones."

It is the African method that Vachel Lindray employs in several of his favourite hymnetic devices such as the insistent chythen, the bosoning rune, the syncoparted measure, the sublimated jaus. His quaint matterians to the reader convey only in part the hymnetic suggestions inherent in Lindray's own rectative of his verses such as the drooping eyebds, the undulating step and gesture, the secontination of scount, the current index at the sudience and cought back from it. Submit to the spell and experience the lummy of atter relaxation, stand ways from it and gase in anassement as two figurestees.

What might be called the whiring-dervish-motif is characteristic of Lindsay's movements on the stage and suggested in his verse as in "How Samson bore away the Gains of Gaza" —

[&]quot;Whering his arms, like a top he sped. His long black hair flow round his head Lake an ontstretched net of nilry cord, Like a wheel of the Chartot of the Lord."

The writer may employ not only auditory rhythm, the rocking of werse, and the croosing of chant for inducing susceptibility to suggestion; he may also have recourse to direct suggestion of drowsiness or of sleep. Consider the twilight mood brought on by the first verse of Browning's "Love Among the Ruiss":—

"Where the quest-coloured and of evening smiles, Miles and miles,

On the schtary pastures where our sheep Half-cakep Tinkle bomeward thro' the twilight."

Often the poet conveys his angestion of quietnde, of acquiescence, of drownness in the title of the poem or the book of wee. How many of them are elegies, revertes, voices of the night! Legitimate offspring of

"Romance, who loves to nod and sing, With drowsy hose and folded wing."

It is claimed by some that we pass into an hypnoidal state as we pass into rither sleep or walong. The dawn mood of the sarty morning and the twilight mood are in themselves postic; they possess each its own magic so marvellously saught in Michelangelo's representations of Night and Morning. Of the two the night mood is the more poets because of the relaxation that comes at the end of things, because of spent emotions and the wary lag of thought The morning mood hovers on the brink of the activities of the coming day; it may fisme at a chance stimulation into alterness, into self-consciousness.

Sometimes the poet calls up through suggestion the actual organic toning of hypnosis. How accurately this is done in those wonderful opening ilous of Keats' "Ode to a Nightingale" —

> "My heart aches, and a drowsy numbers: pama-My sense, as though of hembook I had drunk, Or empired some dull optain to the drams One munute past and Lethe-wards had sunk."

Poetry and music and the dance hill reason by virtue of prolonged and monotonous stimulation. The visual arts resort to fuscination of attention. We may thus explain the charm of the concentrated splendour of stained-glass illuminating, starlike, the dusk of don cathedrals; thus explain the appeal of the bright cross on the pinnacle of the temple. The greater the concentration, the more intense the obscasion. A dewdrop about with sun spalls us more completely than does the large-orbed moon

The centering of the light in a picture, the centering of a portrait in the eye are for purposes of fascination. Howeverlain, in this connection, from esting the fabled influence of the eyes of the Lady Lisa? Or, indeed, the glitter of the eye of the conventional hypmotast or that of the skilled coquetts? Novelist and poet avail themselves of such suggestems of hypmotate over.

" He bolds hun with his glittering eye
The Wedding Guest stood still.
And hatens like a three-years' child
The Manner hath his will "

But the poet who would induce the sethetic reverie in which the real world opens out into the infinite camoot cast in spell in a moment. The hypototic repeats he command again and again "You are tired, very tired, your syalds are heavy; are heavy. You are drowny; you are faling saleep—sal

Consider, for example, the employment of repetition among other hypnotic devices in "The Blind" Lori in their darkness of spirit—the mysterious deeps and chills of the heaty forest enforcing the inner gloom—the Blind huddle in terror, their guide dead in their midst. Far off, somewhere in the darkness, is the saylum that would offer them shelter, but they dare not move, dare not venture beyond the exploring hand lest they plunge into deeper decolation or into the hungry warf whose heaves intenge gredies their little sland. Inmobile in a traine of fear, deaf and blind and imbeclie, they utter again and again the same sample words, the same meaning cutteries of helpless terror. "We ought to find out where we are! We do not know where we are! We do!

My God I Tell us where we are ! " till little by little the bare phrases become surcharged with infinite tragedy, the outcry of humanity but in eternal right.

There must be prolonged contemplation of the picture; hour-long absorption in drama or novel. Fragmants of portry, bits of prose selected with however great skill, cannot create the illustions of the imagination. Nor can such illustons occur, escept by accident, in the presence of other distractions. How become absorbed in the beauty of a picture when limping wearily through a cowded picture gallery? How yield to the influences of music when following the batto of the conductor or the grimanes of the singer? How submit to the spell of postry I liable at any moment to be suspended on the teacher's interrogation point?

In fiction, characterisation is often made vivid by the continued repetition of a descriptive adjective or by suggestion, multip repeated, of a characteristic gesture or attitude. It is but a step further to the "gag" of the comedy stage. Some trivial evolumation occurring again and again in varied situations finally concentrates within itself the whole force of the nlot.

Often a number of hymnotic devices are employed in one production. Thus in "The Ravan" we have a midnight stent, the ditoway lever pundering volumes of forgotten love, the hymnotic tapping on the door, the monotone of the retrain. One further detail we must cite because of Poe's explicit consciousness of its effect. In his analysis of the construction of the poem he gives his reason for placing the some induces. He writes in "The Philescopty of Composition":—

"It has always appeared to me that a close accessors prior of space is absolutely increasery to the effect of insulated unclent——I has the force of a feature to a purtons. It has an indeputable moral power is keeping concentrated the attention."

A curious anticipation of what psychologists might say with reference to the effect of restriction of movement upon concentration of attention and subsequent obsession!

It is this restriction of movement that increases the augmentibility of the mob. As the audience grow in desuity, the contact grows in power. The more closely packed the appetance in a theatre, the greater the effect of the drams.

Immobility suggests trunce, hence the impressiveness of scatching and the seeking of conjutual effects on the stage, particularly in communical or death somes. To produce similar effects Maeterinok introduces characters salsop. Melisands in the last act of his "Felikia and Melisands" stirs only to speak of the cold and the approaching winter before ginking back into the last long sleep.

Tempson's "Lotus-Enters" emphasizes absolute maction following many suggestions of allow movement. Imagine the lasy drift of water, the hazy dreamy shadows, then read, "Full-faced above the valley does the moon," not "floated" or "rose" but "stood the moon." A land where all things always seemed the sums, where the mild-eyed malancholy Lotus-Enters have voices "thin us voices from the rave."

" Most weary seemed the sea, weary the our."

In Yeats' "Hour-Glass" where the eard is falling, falling throughout the play, the Angel appears and stands motionless in the doorway; so, too, the Wise Man stands salent for a long time, his even fixed on the distance.

The stage makes much use of devices that derive their effectiveness from southing monotonous attendiation or from retriction of attendia through fuscination or from actual dissociation of consciousness through shock: a windmill turning in the background, or a symming-wheel wharing, in the foreground, drifting of incense-vapour or of fulfing leaves across the stage; rain, rain without coasing; a throbbing drum; darkmest pierced only by fire or candis-light; folling of bells, clanking of chalins, long silences; the fixated eyes and motionless body; sudden crushes or startling noises as the flight of a great bird through the silence of a forest or from a turner; incuntations that directly suggest steep and transc.

Of such hypnotic devices Shakespeare was past-master. One recalls in "Macheth" the with-scene, the banquet-scene with the entranced king and crashing gobiet, and the sleep-walking some of the queen. Other libertrations might be chosen from "Hambet," "The Tempest," and "A Winter's Tale."

Contemporary drama also gives us many illustrations, Ridgley Torresco in his one-act play "Granny Mannes" employs explicitly every sort of hypnotic device. The sexas is laid in the living-room of an old cabin with walls blackened by age. The colour-tone is red; red cotton curtains, red covers on chairs and table, red seraniums on a trinod-like flowerstand, a red fire in a great rough fireplace. A white counterpane on the bed gives a high light. Granny Manmee, black and thin, with her hair and face so seared with burns that her great age is masked gits in a high-backed chair. She wears a red dress, red apron, and red cap. She is blind. She rocks back and forth, crooning a song. There is a "conjure" scene when Granny calls down a curse on the white man. She empties the red geraniums from the flowerbasin, places the pot on its tripod in the centre of the room and in it puts a number of herbs and lights them. Then with a handful of burning herbs from the brasser she produces. catalopsia in her two grand-daughters. One beats on a wooden. bowl with a short stick, one rattles dry seeds in a gourd, while to the rhythmic dramming and rattling Granny Maumee intones a curse, the cirls repeating each line in unison :-

> " Fo' tames, fo' times, fo' times fo', Fly an call an' open de do' "

Charles Raum Kennedy has produced hypnotic effects in "The Turrible Meek." Perhaps the most striking device employed as that of darkness. In the beginning one can only hear voices, then in the greyness a dim form emerges, then faces are seen. When the Captain joins the followers of the man he has just ordered killed, a very brilliant light comes over the stage so that everything is visible.

Many sounds are employed, as the whisting or soughing of the wind. Note how the psychic censor would be put saliesp and the emotions keyed-up by the scene as described by the author

"Before the curtain rises, a bell from some distant place of worship tolls the hour. Nine brasen notes, far off, out of time. Then a heavy peal of thunder, and the sharp, cracking sound of a bolt, yet, above all, one other sound, more percong — a strange unsertily cry. There follows a mighty howing of wind, blended with a confused clamour of votces and the incryung of many feet. The nomes have almost all deed away, when the curtain rises upon mity dearliness." Then, "A sudden hush The allence deepens There is a sense of moortands and desolate places. Far off, a cow lows in her stall. Some lost sheep down in the valley bleats dismally, Salence again,"!

It is evident from the examples that have been given that literature makes extensive use of various hypnotic devices. It does so with a twofold result. It induces a rest-state, one of relaxation, with a lowered personal threshold, a condition which is often its own excuse for being, and it uses this state of reveric to ampress upon the unduly suggestible subject. levely visions and wase reflections. One's imaginations become hallucinatory. I have glanced up from my perusal of "The Fair God " to behold through a darkened window Montezuma's garden shimmering in the moonlight. In the background, silver palms and a crouching leopard-cat; in the foreground. a shell-strewn fountain-basm and a king standing in an attitude of meditation. Actual experiments have demonstrated the creation of illusions through prolonged contemplation of a picture. Only a painted canvas, and yet you see the leaves fuckering in the wind and the waters cascading over flowery chiffs, you breathe the fragrance of the grasses and you feel the touch of the ward upon your brow. If you are very highly privileged the canvas, two by four, may open out for you and disclose long vistas of green woods and sunny skies

As for the creative reverse which is self-induced or induced by the witcheries of nature, or love, one knows how its inner vasma are embodied and projected into the outer world. Of this asthetic illusion as experiment by creative workers we have many reports, as when Fauthert tells of the strong fasts of arsenic in his mouth accompanying his description of the postoming of Emma Bowary. And in his "Correspondence" his writes.—

"Behold one of those rare days of my life that I have passed completely from one end to the other, m libraron I is a debinous experience, that of being no longer does sail but of living in the whole creation of which one writes. To dely lave been at one man and woman, lover and matters. On homebook up the forces on an automa discoon, there is a library of the contract of the cont

It is the thought element in literature that gives it a range | Quotaisons by permission of Harper & Brothers and of the author

greater than that of any other art. For it embodies philosophies of life, hints at tremendous transvaluations, indulges in prophecy. And all this it may convey to the entranced reader by way of subtle suggestion with no need to seek the assistance of aboursed transment.

Report enhances the potency of suggestions so given, for, as we have seen, it involves a narrowing of consciousness tutil it transfers one influence to the enclusion of all others. With certain poets or dramatists or painters we are as report because of native interests or the suctosuggestions of temperates. Some of us are very most at home in Poe's futurating world or Domas's remantic one. Others of us are "Brewning-ripe," ready to yield at the first suggestion of the optimist. In other cases, we subsuit to the social prestige of the artist and the authoritative suggestions of the critic. With our yielding, with our realization of a novel personality, our own personality is enlarged. The poet or artist who becomes immediately popular is, likely enough, voicing truths to which the ear of the world is already attunct; he who brings a new message may need to weit patiently the working of the spell.

Because the state of relaxation into which we may be plunged in the arthetic trance is marked by a high degree of maggestibility which may be utilized by poet or philosopher in implanting in the mind a thought or a prophecy, art possesses heating power similar to that of the modern physician of this soul. In the treatment of the patient such a specialist often emphasizes two points; first, the fadure of the patient or respond, normally to stimulation from without; and, eccoundly as a consequence of this high threshold, the sociantiation of energy which finds no natural or wholesome ordist. What the physician seeks is to induce relaxation of personal control and so gain access to the fund of energy which may then be used in various ways beneficial to the individual and to sociaty.

On the whole, of course, the accumulation of reserve energy is profitable, since it makes possible the stilling out in the normal individual of shared-up energy when a cruss makes extra demands upon him. But the inhibitions of the individual may be so great, the limitations of his activity so overwhelming, that whole systems of impulses become dissociated from the imetioning personality. There may arise extraordinary paralyses of activity; cramps in one's points of view; rigidify in one's outlook. Carried to the retreeze we have the psychopathic individual who is a prey to worry, to fear, whose will its paralysed, whose lift is a burden to himself and to others. Through the measures suggested above he may be liberated from bondage; the reserve energy that has become tunssible may be tapped and the patient may come to regions in a new life, a transformation of personality that seems little short of the mixendous. This is an extreme one-

But we all halt only a little this side of the abnormal Civilisation, education, experience itself, tend to restrict our activities, attoplay our emotions, solidity our ideas. Flexibility and spontaneity of view vanish. We live on a level lower than we might, satisfied by achievements for within our capacity. Our threshold of stimulation is very high. New ideas break forth with difficulty. Sometimes a crisis liberates us in spite of ourselves. We fall in love in defiance of greying hair or we suffer reportance or removae or are swept outside ourselves by a national calamity (war) or by an appeal to our commic sense (religion). But such excessive stimulation cannot be expected to necur often. Unless everyday life furnish stimulation in some measure, we are deopend to did down to the branch, to venture no more leaf-bads out into life,

It is a half-conscious recognition of this truth that causes revolt against all-enguling system, too courseheasies efficiency, too sane judgment. Some free play for spontaneity is damanded, some simple way of lowering the threshold of stimulation. Here the salvocates of intoxication, (emolional ur physical) soutes a plea. Sanity thesit may be guarded by an occasional relaxation of control, by a subsurgence of reason in a carnival of emotion, in a saturnalia of the senses that release Bood-thies which may inundate for desert places.

A more wholesome view would delegate to art and religion the function of lowering the timeshold of inhibition, of liberating subtle suggestions. Doubtless there are great dangers inherent in their powerful sway over the impulses of men; and Toleton's strictures as to much that we accept in the name of art and religion must be conceded, even though we take issue with him as to the immorality of all minorization, whether it proceed from the soft lights and music of the cathedral service or the aparitie of amber in the wine-glass. We must learn in some way to reconcile the dominance of reason with the source-gence of self, with its absorption in an oversoal, for thus it approaches the scoret reservoir of life.

CHAPTER XXIX

INTROVERIED ART

INTROVERTED art is an attempt to turn inside out the oddly woven souls of us, to see what the garment of thought and amotion is like on the inside, with its patches, its rough sams, its frayed and thin spots. The new art has been variously named but is perhaps most widely known as Expressionses since it represents an attempt to express through art the inner self of the artist, to give a subjective spresulation that may, writes Phister, be accompanied "by total or almost total distortion of nature to the point of unrecognisability or suppression of all experient reality." My mans for the new departure is introverted art sance it mirrors on the creative level a well-known type of inward-glanting and espociative personality.

Introspectionists who follow with interest the fascinating, thoroughly illogical and tortuous workings of the mind, take great delight in the constructions of the new art; they realize that the enchanting ways of the mind are far from being thoroughly exploited. The successful exploiter must, indeed, he considerable of a psychologust with a strong interest in seeing things from the inside. By a freakfah turn of epochal logic, however, it happens that the artist shifted from an phiective representation of reality to an attempt to reproduce the world as it appears to the consciousness of the individual, just at a time when the students of human behaviour were to some extent rejecting introspection as a scientific method and demanding a more objective procedure. Possibly, as some acientists insist, an intimate description of psychic experiences is artistic, not scientific in intention. Yet so long as the introspectionist seeks to find some order in chaos, looks for the common impulse that manifests itself in highly individualized projections, just so long introspection bide fair to contribute to science if in no other way than by patting pointed questions to it.

It may be worth while to pass in rapid review a few of the motives of the new art that intrade on the predocupations of the psychologist. It is with the literary forms of it that we are most concerned and particularly with drams which has, parhaps, penetrated furthert into psychic regions, although such short stories as those of Shorwood Anderson's or novels like "Ulysses" cause one to hesitate a little in making such an america.

We have had occasion in an earlier chapter to note the nee in modern nevel and drams of satisfies thought, or the inner speech, as a device for externalizing the commentary of the self moon external sevents. It is quite within the province of the novelist and dramatic not only to employ the inner speech as a device for such dynamic self-projection but also to copy the abrupt, disjointed style of the inner schloupy. In fact, they make frequent use of a distorted order of words, ungrammatical constructions, tense we'vel explosions in order to remain true to the mental dishability of the inner speech

The introduction of inner speech upon the stage presents the actor with a new problem in interpretation since by some device he must make manifest to the audience when speech is mal, when it is a presentation of thought. The actor does not, appearably, find this problem insoluble. The facial expression characteristic of thought, the bodily immobility that accompanies meditation can be imitated successfully. The ratreat of the personality into fiself, or fix expansion toward outer reality, are mirrored in attitude and gesture.

The modern was of the mask to suggest the assumption by the actor of different points of view, different phases of personality, is part of the same attempt to project the subjective soil, to draumtize psychic tensions. For the multiple self, multiple self,

When Rice in his drama "On Trial" played at will with dramatic sequences, he was said to be alapting to the legitimant stage a device common enough to the movies which are able to final on the screen memories, smittipetions, and drams at will. But both spokes drams and movies really borrowed the device from the cumming mind of man whose thoughts have never been in bondage to the calendar atthough the latter has often forced the conactentious playwright or nevellet into a strait-jacket. The movies in assuming the freedom of a light of thought fills at well from to-morrow to yesterday, reversing the time order if the climax demands it; thronology yields to dismustic sequence. This idea if pressual Arthurrangeets new possibilities in art. I am referring to a psychical reconstruction of events in harmony with some inner logic and not merely to fantastic moves-trackery.

The rate at which thoughts or experiences develop determines the speed with which time passes, just as the speed with which the motion-picture man turns the crank determines it. Time is telescoped in proportion to the amount of life we pack into the moment. It lags worfully when nothing is happening. A vacation week melts away by magic, an hoor's waiting for a late train is an eternity. In retrospect all this is reversed. Empty time affords no attachment for thought : filled time tempts us to lotter. Further artistic utilization of these time-fantanes will be iound, for they make possible a new sort of portraval of emotional crises, a lengthening out or a telescoping of life so that a thousand years even as a day and a day as a thousand years. It is, indeed, in the relativity of time as a psychological matter that one must look for an explanation of apparent imponsistencies of the amotional life, those second ardent remances too soon concalved, those falsely seeming swift recoveries from tragedy; the year of sorrow is a real eterraty.

The new art admits to a role in drama or fiction those fautharms of the mind that we have studied under the name of images and halluchations; and it admits them under the banners of a far-reaching relativity, a freedom not only from the logic of time but also from the logic of a conventionalized geometry.

In the chapter on the space characteristics of images and in that on the cartooting consuments we had had much to say about the effect of emotion and fluctuating interest in magnifying and minifying objects of thought. Every one has experienced that curious illusion of memory whereby the bigs massion of childhood days seems on a visit to the hom-

town years afterwards to have dwindled to unbelievingly small proportions. Distortion of space characteristics and emotional disproportion are common features in our thoughts and yet often impress us unfavourably when initiated in the new act of painting by expressionistic artists. Up to the present, modern drama has taken few liberties with objective space-relations although the silent drama and poetry have played fittally with them.

"Monodrama" or the setting of a play within the unind of one person shows the degree to which subjectivity may be carried. Writing in "Playwrights of the New American Theatre" of O'Neill's "The Empetor Jones," Dickmson says: "Creative, too, is the reasperanace in the mind of the fleeing man of the phantoms of the past hestory of his race, phantoms which are so much more real than reality that his footab bullets are wasted on them. The little Formless Feats, the Prison Goard, the Planters, the Auctioneer, the Slaves, the Congo Witch Doctor, the Crondolle God are effective as phantoms. But they are more than phantoms; they are reality to loose, they are loose."

The modern artist, just as the psychoanalytical psychoionst, has found much must in the study of the dream. Introverted art borrows generously from dream-technique. Apparent irrelevancies, distortions of outer reality, overweighting of certain features as a method of subjective emphasis-all are mirrored in modern art-products. Straidberg's "Dream Play" is a masterful reproduction of the emotionally logical, though intellectually inconsequential, mindof the Dreamer. "Bengar on Horseback"-an American Comedy-resorts to multiplication of butlers, ushers, reporters, as though reflected in a crasy house of many payrors quite in the dream fashion. Even the currous symbols, the emotional complexes and hidden desires of the alcoung or waking dreamer, are dramatized by the modern psychoenalysing playwright and painter So far as I am aware, except on the silver acreen, they have not yet introduced those quaint funtacies of self-projection which we have had occasion to review in another connection.

¹ T. H. Dulansun · Playweghts of the How American Theater. Copyright, 1925, by The Muchfillen Company. Reproduct by permanen. The use of the new material is a challenge to the old stage technique and conventions. It may be that a transparant or cloudy curtain is used to suggest that the action takes place on the plane of the mind, or mirroring walls are utilized. It is no easy matter suggesting that an alien character is somehow surrepitiously entering unother's private world of thought or fantasy. Indeed, the sliding of subjective worlds one over the other demands an akmeet miraculous technique. Fortunntely the new drama has at ute disposal a new art, that of stage lightling, which can make and dissolve settings by magic.

A recent sketch of Christopher Morley's "Really, My Dear . . . 'Illustrates how the psychic may be vestalized a white line is used half-way up stage to indicate where the material world leaves off and the mind of the poet begins. Beyond the white line the stage is bere and fades off into blue infinity "A blue backdrop and some delicacy of lighting give the illusion that the whole back wall has been removed." Abysmal depths and "into teven a railing !" Later on, when visitors arrive and the poet's wife reads to them from the poet's mrw book, the instructiones run: "Without wishing to drive the idea in too hard, it is suggested that what follows is the drama that transpires made their minds while A is reading along to them."

Not only may the Thinker's Thoughts become embodied in visible characters, they may even take it upon themselves to declare their independence and play a rôle on their own hook as in Prandello's "Six Characters in Search of an Author" Here psychology becomes metaphysics and one sees reshty in the making. The same philosophical preoccupation underlies Prandello's use of the manity motive.

In the older drama the madman was employed largely for purposes of pilot-complication or for more or less superficial contrast. Nowadays art is endeavouring to girupse the landscapes of other psychic planes, to open windows into the conclusions of so-called abhormal individuals. It would see through their eyes, perhaps encouring a transvaluation of reality because of realization of alien types of experience. An imaginative pensitration into the mind of the psychotic individual is a stroke of genius. But even the genus needs

¹ Forum, May 1925

to take counsel with the psychiatrist. Valid imaginative reconstruction must develop from scientific maight.

That the imaginative writer is really taking ones from the psychologist is shown in his attempts to reconstruct the mind of the little child not only from his own behing memories but also from a comprehension of the ways in which the childmind differs from that of the sculf. Someone has said that the child was the greatest discovery of the nimeteenth century, but has the discovery been more than adumbrated? Very little do we know yet of the time and space and causal world in which the infant lives; nor can we assume the point of view that gives him so quantily different a psychic perspective.

Much the same thing might be repeated concerning the primitive mind or, thinks Spengler, concerning the soul of any culture. Those scentists who are seeking closes for interpretation may eventually present us with new worlds of resisty. Now that the globe is shrinking daily and our thirst for the strange and alien cannot be gratified to the extent it was formerly by travel in lands once far off and mysterous, now near and familiar, we undertake psychic exploration avidly. The creative impulse meets the psychological more than half-way.

There are two contrasting motives in the new art which at first sight seem opposed; namely, the realistic, almost photographic motive, and the subjective or introverted motive. Neither can be pushed too far with safety. Resistic record on the province of the clime; sheer subjectivity secretics communicability. No material should be taboo to art; but all should be theoroughly dissolved in that alembic whose formula is the secret of the lungificative praisis.



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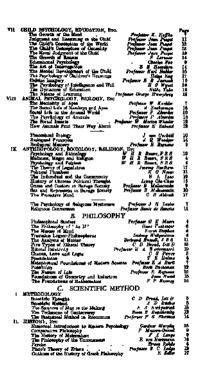
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