The Game Design Reader
A Rules of Play Anthology

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A Theory of Play and Fantasy

Gregory Bateson

Context
"A Theory of Play and Fantasy" comes from the volume Steps to an Ecology of Mind, a collection of Bateson's essays and writings. Like many of his works, "A Theory of Play and Fantasy" crosses and recrosses many disciplines, including mathematics, philosophy, communications, and psychology.

Gregory Bateson (1904–1980) worked in the fields of both anthropology and systems theory and produced a body of work that has had a significant impact on how we think today. Much of his theoretical work centered on the synthesis of what he referred to as "an ecology of mind," developed over years of collaboration with anthropologist Margaret Mead. A brilliant and eclectic scholar, his work crosses a dizzying array of fields, from biology and pathology to epistemology and aesthetics.
This research was planned and started with an hypothesis to guide our investigations, the
task of the investigators being to collect relevant observational data and, in the process, to
amplify and modify the hypothesis.

The hypothesis will here be described as it has grown in our thinking.

Earlier fundamental work of Whitehead, Russell,1 Wittgenstein,2 Carnap,3 Whorf,4 etc., as well as my own attempt5 to use this earlier thinking as an epistemological base for
psychiatric theory, led to a series of generalizations:

1. That human verbal communication can operate and always does operate at many
contrasting levels of abstraction. These range in two directions from the seemingly simple
denotative level ("The cat is on the mat"). One range or set of these more abstract levels includes
those explicit or implicit messages where the subject of discourse is the language. We will
call these metalinguistic (for example, "The verbal sound 'cat' stands for any member of such
and such class of objects,") or "The word, 'cat,' has no fur and cannot scratch"). The other set
of levels of abstraction we will call metacommunicative (e.g., "My telling you where to find
the cat was friendly," or, "This is play"). In these the subject of discourse is the relationship
between the speakers.

It will be noted that the vast majority of both metalinguistic and metacommunicative
messages remain implicit; and also that, especially in the psychiatric interview, there occurs
a further class of implicit messages about how metacommunicative messages of friendship
and hostility are to be interpreted.

2. If we speculate about the evolution of communication, it is evident that a very
important stage in this evolution occurs when the organism gradually ceases to respond quite
"automatically" to the mood-signs of another and becomes able to recognize the sign as a
signal, that is, to recognize that the other individual's and its own signals are only signals,
which can be trusted, distrusted, falsified, denied, amplified, corrected, and so forth.

Clearly this realization that signals are signals is by no means complete even among
the human species. We all too often respond automatically to newspaper headlines as though
these stimuli were direct object-indications of events in our environment instead of signals
concocted and transmitted by creatures as complexly motivated as ourselves. The nonhuman
mammal is automatically excited by the sexual odor of another; and rightly so, inasmuch as
the secretion of that sign is an "involuntary" mood-sign; i.e., an outwardly perceptible event
which is a part of the physiological process which we have called a mood. In the human species a more complex state of affairs begins to be the rule. Deodorants mask the involuntary olfactory signs, and in their place the cosmetic industry provides the individual with perfumes which are not involuntary signs but voluntary signals, recognizable as such. Many a man has been thrown off balance by a whiff of perfume, and if we are to believe the advertisers, it seems that these signals, voluntarily worn, have sometimes an automatic and autosuggestive effect even upon the voluntary wearer.

Be that as it may, this brief digression will serve to illustrate a stage of evolution—the drama precipitated when organisms, having eaten of the fruit of the Tree of Knowledge, discover that their signals are signals. Not only the characteristically human invention of language can then follow, but also all the complexities of empathy, identification, projection, and so on. And with these comes the possibility of communicating at the multiplicity of levels of abstraction mentioned above.

[3] The first definite step in the formulation of the hypothesis guiding this research occurred in January, 1952, when I went to the Fleishhacker Zoo in San Francisco to look for behavioral criteria which would indicate whether any given organism is or is not able to recognize that the signs emitted by itself and other members of the species are signals. In theory, I had thought out what such criteria might look like—that the occurrence of metacommunicative signs (or signals) in the stream of interaction between the animals would indicate that the animals have at least some awareness (conscious or unconscious) that the signs about which they metacommunicate are signals.

I knew, of course, that there was no likelihood of finding denotative messages among nonhuman mammals, but I was still not aware that the animal data would require an almost total revision of my thinking. What I encountered at the zoo was a phenomenon well known to everybody: I saw two young monkeys playing, i.e., engaged in an interactive sequence of which the unit actions or signals were similar to but not the same as those of combat. It was evident, even to the human observer, that the sequence as a whole was not combat, and evident to the human observer that to the participant monkeys this was “not combat.”

Now, this phenomenon, play, could only occur if the participant organisms were capable of some degree of metacommunication, i.e., of exchanging signals which would carry the message “This is play.”
[4] The next step was the examination of the message "This is play," and the realization that this message contains those elements which necessarily generate a paradox of the Russellian or Epimenides type—a negative statement containing an implicit negative metasatement. Expanded, the statement "This is play" looks something like this: "These actions in which we now engage do not denote what those actions for which they stand would denote."

We now ask about the italicized words, "for which they stand." We say the word "cat" stands for any member of a certain class. That is, the phrase "stands for" is a near synonym of "denotes." If we now substitute "which they denote" for the words "for which they stand" in the expanded definition of play, the result is: "These actions, in which we now engage, do not denote what would be denoted by those actions which these actions denote." The playful nip denotes the bite, but it does not denote what would be denoted by the bite.

According to the Theory of Logical Types such a message is of course inadmissible, because the word "denote" is being used in two degrees of abstraction, and these two uses are treated as synonymous. But all that we learn from such a criticism is that it would be bad natural history to expect the mental processes and communicative habits of mammals to conform to the logician's ideal. Indeed, if human thought and communication always conformed to the ideal, Russell would not—in fact could not—have formulated the ideal.

[5] A related problem in the evolution of communication concerns the origin of what Korzybskii has called the map-territory relation: the fact that a message, of whatever kind, does not consist of those objects which it denotes ("The word 'cat' cannot scratch us"). Rather, language bears to the objects which it denotes a relationship comparable to that which a map bears to a territory. Denotative communication as it occurs at the human level is only possible after the evolution of a complex set of metalinguistic (but not verbalized) rules which govern how words and sentences shall be related to objects and events. It is therefore appropriate to look for the evolution of such metalinguistic and/or metacommunicative rules at a prehuman and preverbal level.

It appears from what is said above that play is a phenomenon in which the actions of "play" are related to, or denote, other actions of "not play." We therefore meet in play with an instance of signals standing for other events, and it appears, therefore, that the evolution of play may have been an important step in the evolution of communication.

[6] Threat is another phenomenon which resembles play in that actions denote, but are different from, other actions. The clenched fist of threat is different from the punch, but
it refers to a possible future (but at present nonexistent) punch. And threat also is commonly recognizable among nonhuman mammals. Indeed it has lately been argued that a great part of what appears to be combat among members of a single species is rather to be regarded as threat [Tinbergen,9 Lorenz10].

[7] Histrionic behavior and deceit are other examples of the primitive occurrence of map-territory differentiation. And there is evidence that dramatization occurs among birds: a jackdaw may imitate her own mood-signs [Lorenz10], and deceit has been observed among howler monkeys [Carpenter11].

[8] We might expect threat, play, and histrionics to be three independent phenomena all contributing to the evolution of the discrimination between map and territory. But it seems that this would be wrong, at least so far as mammalian communication is concerned. Very brief analysis of childhood behavior shows that such combinations as histrionic play, bluff, playful threat, teasing play in response to threat, histrionic threat, and so on form together a single total complex of phenomena. And such adult phenomena as gambling and playing with risk have their roots in the combination of threat and play. It is evident also that not only threat but the reciprocal of threat—the behavior of the threatened individual—are a part of this complex. It is probable that not only histrionics but also spectatorship should be included within this field. It is also appropriate to mention self-pity.

[9] A further extension of this thinking leads us to include ritual within this general field in which the discrimination is drawn, but not completely, between denotative action and that which is to be denoted. Anthropological studies of peace-making ceremonies, to cite only one example, support this conclusion.

In the Andaman Islands, peace is concluded after each side has been given ceremonial freedom to strike the other. This example, however, also illustrates the labile nature of the frame "This is play," or "This is ritual." The discrimination between map and territory is always liable to break down, and the ritual blows of peace-making are always liable to be mistaken for the "real" blows of combat. In this event, the peace-making ceremony becomes a battle [Radcliffe-Brown12].

[10] But this leads us to the recognition of a more complex form of play: the game which is constructed not upon the premise "This is play" but rather around the question "Is this play?" And this type of interaction also has its ritual forms, e.g., in the hazing of initiation.
[11] Paradox is doubly present in the signals which are exchanged within the context of play, fantasy, threat, etc. Not only does the playful nip not denote what would be denoted by the bite for which it stands, but, in addition, the bite itself is fictional. Not only do the playing animals not quite mean what they are saying but, also, they are usually communicating about something which does not exist. At the human level, this leads to a vast variety of complications and inversions in the fields of play, fantasy, and art. Conjurers and painters of the trompe l'oeil school concentrate upon acquiring a virtuosity whose only reward is reached after the viewer detects that he has been deceived and is forced to smile or marvel at the skill of the deceiver. Hollywood film-makers spend millions of dollars to increase the realism of a shadow. Other artists, perhaps more realistically, insist that art be nonrepresentational; and poker players achieve a strange addictive realism by equating the chips for which they play with dollars. They still insist, however, that the loser accept his loss as part of the game.

Finally, in the dim region where art, magic, and religion meet and overlap, human beings have evolved the “metaphor that is meant,” the flag which men will die to save, and the sacrament that is felt to be more than “an outward and visible sign, given unto us.” Here we can recognize an attempt to deny the difference between map and territory, and to get back to the absolute innocence of communication by means of pure mood-signs.

[12] We face then two peculiarities of play: (a) that the messages or signals exchanged in play are in a certain sense untrue or not meant; and (b) that which is denoted by these signals is nonexistent. These two peculiarities sometimes combine strangely to reverse a conclusion reached above. It was stated (4) that the playful nip denotes the bite, but does not denote that which would be denoted by the bite. But there are other instances where an opposite phenomenon occurs. A man experiences the full intensity of subjective terror when a spear is flung at him out of the 3D screen or when he falls headlong from some peak created in his own mind in the intensity of nightmare. At the moment of terror there was no questioning of “reality,” but still there was no spear in the movie house and no cliff in the bedroom. The images did not denote that which they seemed to denote, but these same images did really evoke that terror which would have been evoked by a real spear or a real precipice. By a similar trick of self-contradiction, the film-makers of Hollywood are free to offer to a puritanical public a vast range of pseudosexual fantasy which otherwise would not be tolerated. In David and Bathsheba, Bathsheba can be a Troilistic link between David and Uriah. And in Hans Christian Andersen, the hero starts out accompanied by a boy. He tries to get a woman, but when he is defeated in
this attempt, he returns to the boy. In all of this, there is, of course, no homosexuality, but the choice of these symbolisms is associated in these fantasies with certain characteristic ideas, e.g., about the hopelessness of the heterosexual masculine position when faced with certain sorts of women or with certain sorts of male authority. In sum, the pseudohomosexuality of the fantasy does not stand for any real homosexuality, but does stand for and express attitudes which might accompany a real homosexuality or feed its etiological roots. The symbols do not denote homosexuality, but do denote ideas for which homosexuality is an appropriate symbol. Evidently it is necessary to re-examine the precise semantic validity of the interpretations which the psychiatrist offers to a patient, and, as preliminary to this analysis, it will be necessary to examine the nature of the frame in which these interpretations are offered.

(13) What has previously been said about play can be used as an introductory example for the discussion of frames and contexts. In sum, it is our hypothesis that the message "This

<table>
<thead>
<tr>
<th>All statements within this frame are untrue.</th>
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<tbody>
<tr>
<td>I love you.</td>
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<tr>
<td>I hate you.</td>
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is play" establishes a paradoxical frame comparable to Epimenides' paradox. This frame may be diagrammed thus:

The first statement within this frame is a self-contradictory proposition about itself. If this first statement is true, then it must be false. If it be false, then it must be true. But this first statement carries with it all the other statements in the frame. So, if the first statement be true, then all the others must be false; and vice versa, if the first statement be untrue then all the others must be true.

(14) The logically minded will notice a non-sequitur. It could be urged that even if the first statement is false, there remains a logical possibility that some of the other statements in the frame are untrue. It is, however, a characteristic of unconscious or "primary-process" thinking that the thinker is unable to discriminate between "some" and "all," and unable to discriminate between "not all" and "none." It seems that the achievement of these discriminations is performed by higher or more conscious mental processes which serve in the nonpsychotic individual to correct the black-and-white thinking of the lower levels. We assume, and this seems to be an orthodox assumption, that primary process is continually
operating, and that the psychological validity of the paradoxical play frame depends upon this part of the mind.

[15] But, conversely, while it is necessary to invoke the primary process as an explanatory principle in order to delete the notion of "some" from between "all" and "none," this does not mean that play is simply a primary-process phenomenon. The discrimination between "play" and "nonplay," like the discrimination between fantasy and nonfantasy, is certainly a function of secondary process, or "ego." Within the dream the dreamer is usually unaware that he is dreaming, and within "play" he must often be reminded that "This is play."

Similarly, within dream or fantasy the dreamer does not operate with the concept "untrue." He operates with all sorts of statements but with a curious inability to achieve metastatements. He cannot, unless close to waking, dream a statement referring to (i.e., framing) his dream.

It therefore follows that the play frame as here used as an explanatory principle implies a special combination of primary and secondary processes. This, however, is related to what was said earlier, when it was argued that play marks a step forward in the evolution of communication—the crucial step in the discovery of map-territory relations. In primary process, map and territory are equated; in secondary process, they can be discriminated. In play, they are both equated and discriminated.

[16] Another logical anomaly in this system must be mentioned: that the relationship between two propositions which is commonly described by the word "premise" has become intransitive. In general, all asymmetrical relationships are transitive. The relationship "greater than" is typical in this respect; it is conventional to argue that if A is greater than B, and B is greater than C, then A is greater than C. But in psychological processes the transitivity of asymmetrical relations is not observed. The proposition P may be a premise for Q; Q may be a premise for R; and R may be a premise for P. Specifically, in the system which we are considering, the circle is still more contracted. The message, "All statements within this frame are untrue" is itself to be taken as a premise in evaluating its own truth or untruth. [Cf. the intransitivity of psychological preference discussed by McCulloch.13] The paradigm for all paradoxes of this general type is Russell's14 "class of classes which are not members of themselves." Here Russell demonstrates that paradox is generated by treating the relationship, "is a member of," as an intransitive.] With this caveat, that the "premise" relation in psychology is likely to be intransitive, we shall use the word "premise" to denote a dependency of one idea or message
upon another comparable to the dependency of one proposition upon another which is referred to in logic by saying that the proposition P is a premise for Q.

[17] All this, however, leaves unclear what is meant by "frame" and the related notion of "context." To clarify these, it is necessary to insist first that these are psychological concepts. We use two sorts of analogy to discuss these notions: the physical analogy of the picture frame and the more abstract, but still not psychological, analogy of the mathematical set. In set theory the mathematicians have developed axioms and theorems to discuss with rigor the logical implications of membership in overlapping categories or "sets." The relationships between sets are commonly illustrated by diagrams in which the items or members of a larger universe are represented by dots, and the smaller sets are delimited by imaginary lines enclosing the members of each set. Such diagrams then illustrate a topological approach to the logic of classification. The first step in defining a psychological frame might be to say that it is [or delimits] a class or set of messages [or meaningful actions]. The play of two individuals on a certain occasion would then be defined as the set of all messages exchanged by them within a limited period of time and modified by the paradoxical premise system which we have described. In a set-theoretical diagram these messages might be represented by dots, and the "set" enclosed by a line which would separate these from other dots representing non-play messages. The mathematical analogy breaks down, however, because the psychological frame is not satisfactorily represented by an imaginary line. We assume that the psychological frame has some degree of real existence. In many instances, the frame is consciously recognized and even represented in vocabulary ("play," "movie," "interview," "job," "language," etc.). In other cases, there may be no explicit verbal reference to the frame, and the subject may have no consciousness of it. The analyst, however, finds that his own thinking is simplified if he uses the notion of an unconscious frame as an explanatory principle; usually he goes further than this and infers its existence in the subject's unconscious.

But while the analogy of the mathematical set is perhaps over abstract, the analogy of the picture frame is excessively concrete. The psychological concept which we are trying to define is neither physical nor logical. Rather, the actual physical frame is, we believe, added by human beings to physical pictures because these human beings operate more easily in a universe in which some of their psychological characteristics are externalized. It is these characteristics which we are trying to discuss, using the externalization as an illustrative device.

[18] The common functions and uses of psychological frames may now be listed and
illustrated by reference to the analogies whose limitations have been indicated in the previous paragraph:

(a) Psychological frames are exclusive, i.e., by including certain messages (or meaningful actions) within a frame, certain other messages are excluded.

(b) Psychological frames are inclusive, i.e., by excluding certain messages certain others are included. From the point of view of set theory these two functions are synonymous, but from the point of view of psychology it is necessary to list them separately. The frame around a picture, if we consider this frame as a message intended to order or organize the perception of the viewer, says, “Attend to what is within and do not attend to what is outside.” Figure and ground, as these terms are used by gestalt psychologists, are not symmetrically related as are the set and nonset of set theory. Perception of the ground must be positively inhibited and perception of the figure (in this case the picture) must be positively enhanced.

(c) Psychological frames are related to what we have called “premises.” The picture frame tells the viewer that he is not to use the same sort of thinking in interpreting the picture that he might use in interpreting the wallpaper outside the frame. Or, in terms of the analogy from set theory, the messages enclosed within the imaginary line are defined as members of a class by virtue of their sharing common premises or mutual relevance. The frame itself thus becomes a part of the premise system. Either, as in the case of the play frame, the frame is involved in the evaluation of the messages which it contains, or the frame merely assists the mind in understanding the contained messages by reminding the thinker that these messages are mutually relevant and the messages outside the frame may be ignored.

(d) In the sense of the previous paragraph, a frame is metacommunicative. Any message, which either explicitly or implicitly defines a frame, ipso facto gives the receiver instructions or aids in his attempt to understand the messages included within the frame.

(e) The converse of (d) is also true. Every metacommunicative or metalinguistic message defines, either explicitly or implicitly, the set of messages about which it communicates, i.e., every metacommunicative message is or defines a psychological frame. This, for example, is very evident in regard to such small metacommunicative signals as punctuation marks in a printed message, but applies equally to such complex metacommunicative messages as the psychiatrist’s definition of his own curative role in terms of which his contributions to the whole mass of messages in psychotherapy are to be understood.

(f) The relation between psychological frame and perceptual gestalt needs to be
considered, and here the analogy of the picture frame is useful. In a painting by Roualt or Blake, the human figures and other objects represented are outlined. "Wise men see outlines and therefore they draw them." But outside these lines, which delimit the perceptual gestalt or "figure," there is a background or "ground" which in turn is limited by the picture frame. Similarly, in set-theoretical diagrams, the larger universe within which the smaller sets are drawn is itself enclosed in a frame. This double framing is, we believe, not merely a matter of "frames within frames" but an indication that mental processes resemble logic in needing an outer frame to delimit the ground against which the figures are to be perceived. This need is often unsatisfied, as when we see a piece of sculpture in a junk shop window, but this is uncomfortable. We suggest that the need for this outer limit to the ground is related to a preference for avoiding the paradoxes of abstraction. When a logical class or set of items is defined—for example, the class of matchboxes—it is necessary to delimit the set of items which are to be excluded, in this case, all those things which are not matchboxes. But the items to be included in the background set must be of the same degree of abstraction, i.e., of the same "logical type" as those within the set itself. Specifically, if paradox is to be avoided, the "class of matchboxes" and the "class of nonmatchboxes" (even though both these items are clearly not matchboxes) must not be regarded as members of the class of nonmatchboxes. No class can be a member of itself. The picture frame then, because it delimits a background, is here regarded as an external representation of a very special and important type of psychological frame—namely a frame whose function is to delimit a logical type. This, in fact, is what was indicated above when it was said that the picture frame is an instruction to the viewer that he should not extend the premises which obtain between the figures within the picture to the wall paper behind it.

But, it is precisely this sort of frame that precipitates paradox. The rule for avoiding paradoxes insists that the items outside any enclosing line be of the same logical type as those within, but the picture frame, as analyzed above, is a line dividing items of one logical type from those of another. In passing, it is interesting to note that Russell's rule cannot be stated without breaking the rule. Russell insists that all items of inappropriate logical type be excluded (i.e., by an imaginary line) from the background of any class, i.e., he insists upon the drawing of an imaginary line of precisely the sort which he prohibits.

[19] This whole matter of frames and paradoxes may be illustrated in terms of animal behavior, where three types of message may be recognized or deduced: [a] Messages of the
sort which we here call mood-signs; (b) messages which simulate mood-signs (in play, threat, histrionics, etc.); and (c) messages which enable the receiver to discriminate between mood-signs and those other signs which resemble them. The message "This is play" is of this third type. It tells the receiver that certain nips and other meaningful actions are not messages of the first type.

The message "This is play" thus sets a frame of the sort which is likely to precipitate paradox: it is an attempt to discriminate between, or to draw a line between, categories of different logical types.

(20) This discussion of play and psychological frames establishes a type of triadic constellation (or system of relationships) between messages. One instance of this constellation is analyzed in paragraph 19, but it is evident that constellations of this sort occur not only at the nonhuman level but also in the much more complex communication of human beings. A fantasy or myth may simulate a denotative narrative, and, to discriminate between these types of discourse, people use messages of the frame-setting type, and so on.

(21) In conclusion, we arrive at the complex task of applying this theoretical approach to the particular phenomena of psychotherapy. Here the lines of our thinking may most briefly be summarized by presenting and partially answering these questions:

(a) Is there any indication that certain forms of psychopathology are specifically characterized by abnormalities in the patient's handling of frames and paradoxes?
(b) Is there any indication that the techniques of psychotherapy necessarily depend upon the manipulation of frames and paradoxes?
(c) Is it possible to describe the process of a given psychotherapy in terms of the interaction between the patient's abnormal use of frames and the therapist's manipulation of them?

(22) In reply to the first question, it seems that the "word salad" of schizophrenia can be described in terms of the patient's failure to recognize the metaphoric nature of his fantasies. In what should be triadic constellations of messages, the frame-setting message (e.g., the phrase "as if") is omitted, and the metaphor or fantasy is narrated and acted upon in a manner which would be appropriate if the fantasy were a message of the more direct kind. The absence of metacommunicative framing which was noted in the case of dreams (15) is characteristic of the waking communications of the schizophrenic. With the loss of the ability to set metacommunicative frames, there is also a loss of ability to achieve the more primary
or primitive message. The metaphor is treated directly as a message of the more primary type. (This matter is discussed at greater length in the paper given by Jay Haley at this Conference.)

(23) The dependence of psychotherapy upon the manipulation of frames follows from the fact that therapy is an attempt to change the patient’s metacommunicative habits. Before therapy, the patient thinks and operates in terms of a certain set of rules for the making and understanding of messages. After successful therapy, he operates in terms of a different set of such rules. (Rules of this sort are, in general, unverbalized and unconscious both before and after.) It follows that, in the process of therapy, there must have been communication at a level meta to these rules. There must have been communication about a change in rules.

But such a communication about change could not conceivably occur in messages of the type permitted by the patient’s metacommunicative rules as they existed either before or after therapy.

It was suggested above that the paradoxes of play are characteristic of an evolutionary step. Here we suggest that similar paradoxes are a necessary ingredient in that process of change which we call psychotherapy.

The resemblance between the process of therapy and the phenomenon of play is, in fact, profound. Both occur within a delimited psychological frame, a spatial and temporal bounding of a set of interactive messages. In both play and therapy, the messages have a special and peculiar relationship to a more concrete or basic reality. Just as the pseudobattle of play is not real combat, so also the pseudolove and pseudohate of therapy are not real love and hate. The “transfer” is discriminated from real love and hate by signals invoking the psychological frame; and indeed it is this frame which permits the transfer to reach its full intensity and to be discussed between patient and therapist.

The formal characteristics of the therapeutic process may be illustrated by building up a model in stages. Imagine first two players who engage in a game of canasta according to a standard set of rules. So long as these rules govern and are unquestioned by both players, the game is unchanging, i.e., no therapeutic change will occur. (Indeed many attempts at psychotherapy fail for this reason.) We may imagine, however, that at a certain moment the two canasta players cease to play canasta and start a discussion of the rules. Their discourse is now of a different logical type from that of their play. At the end of this discussion, we can imagine that they return to playing but with modified rules.
This sequence of events is, however, still an imperfect model of therapeutic interaction, though it illustrates our contention that therapy necessarily involves a combination of discrepant logical types of discourse. Our imaginary players avoided paradox by separating their discussion of the rules from their play, and it is precisely this separation that is impossible in psychotherapy. As we see it, the process of psychotherapy is a framed interaction between two persons, in which the rules are implicit but subject to change. Such change can only be proposed by experimental action, but every such experimental action, in which a proposal to change the rules is implicit, is itself a part of the ongoing game. It is this combination of logical types within the single meaningful act that gives to therapy the character not of a rigid game like canasta but, instead, that of an evolving system of interaction. The play of kittens or otters has this character.

[24] In regard to the specific relationship between the way in which the patient handles frames and the way in which the therapist manipulates them, very little can at present be said. It is, however, suggestive to observe that the psychological frame of therapy is an analogue of the frame-setting message which the schizophrenic is unable to achieve. To talk in “word salad” within the psychological frame of therapy is, in a sense, not pathological. Indeed the neurotic is specifically encouraged to do precisely this, narrating his dreams and free associations so that patient and therapist may achieve an understanding of this material. By the process of interpretation, the neurotic is driven to insert an “as if” clause into the productions of his primary process thinking, which productions he had previously deprected or repressed. He must learn that fantasy contains truth.

For the schizophrenic the problem is somewhat different. His error is in treating the metaphors of primary process with the full intensity of literal truth. Through the discovery of what these metaphors stand for he must discover that they are only metaphors.

[25] From the point of view of the project, however, psychotherapy constitutes only one of the many fields which we are attempting to investigate. Our central thesis may be summed up as a statement of the necessity of the paradoxes of abstraction. It is not merely bad natural history to suggest that people might or should obey the Theory of Logical Types in their communications; their failure to do this is not due to mere carelessness or ignorance. Rather, we believe that the paradoxes of abstraction must make their appearance in all communication more complex than that of mood-signals, and that without these paradoxes the evolution of communication would be at an end. Life would then be an endless interchange of stylized messages, a game with rigid rules, unrelieved by change or humor.
Notes
7. The verbalization of these metalinguistic rules is a much later achievement which can only occur after the evolution of a nonverbalized meta-metalinguistics.
10. Ibid.