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It is in this context of democratic endeavour that qualitative psychology of whatever tendency should be judged. For, usually, it is only qualitative research that has a proper awareness of the diverse experiences of individuals – and will, in particular, provide a hearing for the voices of the excluded.

Chapter 3

Phenomenology

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exposition of how the phenomenological method, adapted for scientific sources for details about this history (e.g., Cloonan, 1995; Merleau-Ponty, actions is filled with misunderstandings, and the reader is referred to other two disciplines should take place. Unfortunately, the history of these intermethod for carrying out this project. Since psychology was also being conscious and unconscious processes. Husserl (1913/1983) also detailed a to awareness, but in a much broader sense which would also include prenoted here, however, that consciousness is not to be understood as limited or witnessed if it did not come through someone's consciousness. It is to be events appeared to consciousness since nothing could be even spoken about knowledge, Husserl decided to start with the problem of how objects and rationality and its procedures could be overcome. To build a secure basis for to ground radically the foundations of knowledge so that sceptical attacks on the beginning of the twentieth century. One key aim of phenomenology was In psychologically significant ways. purposes, can help psychology make discoveries about the experiential world 1964; Spiegelberg, 1972). In this chapter, we will limit ourselves to an the 'study of consciousness', it was only natural that interaction between the founded about the same time as phenomenology, and since it, too, began as Phenomenology is a philosophy initiated by Edmund Husserl (1900/1970) at

How to determine precise psychological knowledge has been an issue for psychology ever since its founding as a modern discipline. When modern psychology was founded in the late nineteenth century, it began to seek secure knowledge according to the most prestigious criterion of that era, which was the experimental laboratory. Mainstream psychology has worked within this set of criteria with minor variations ever since. To be sure, some legitimate knowledge has been gained, but only in limited regions of the whole field of psychology, since most early studies focused primarily on sensory-perceptual experience or experiences tied to physiology because phenomena of that sort were highly amenable to the acceptable procedures and strategies of those times. Even when the so-called 'higher processes' were investigated, the idea of the natural science laboratory was still dominant

since Ebbinghaus (1885/1964) invented an instrument for presenting nonsense material, and measured the time for learning and counted errors.

The advent of behaviourism and Gestalt theory were still laboratory centred, but at least some few differences, in concession to the unique nature of psychological reality, were introduced by those theoretical movements. Radical behaviourism, in addition to focusing on behaviour, developed in such a way that it preferred work in depth with a few subjects, within a functionalistic perspective, and it was more descriptive than quantitative in orientation (Day, 1976). Gestalt research was also almost exclusively laboratory based, but it introduced the idea of phenomenal presences and behavioural environments, in addition to physical reality, and it tried to tie experience of them to the conditions of experimentation. In addition, Gestalt experiments often relied more upon careful descriptions than precise measurements (Koffka, 1935).

On the clinical side of the ledger, psychoanalysis established itself by 1900, but the setting for psychological knowledge was the therapist's room rather than the laboratory. The shift in setting led to a different type of knowledge. Psychoanalytic theoretical constructions were all based upon clinical case studies and the meanings that could be deduced from the observations and interpretations made by the clinician. However, psychoanalysis always suffered from the fact that it was not laboratory-based and, hence, not a true science in the eyes of mainstream psychology is extremely conservative in its interpretation of science, and one departs from conventional criteria at great risk.

This chapter assumes not only that qualitative research yields useful knowledge but also that it is as legitimate a form of science as any other set of procedures acceptable to science. This is not the place to argue such a position, but we will demonstrate it by accepting certain generic operational criteria of scientific research and showing how the specific approach to qualitative research that we endorse, the phenomenological approach and method, can satisfy those criteria. While the perspective of science applied to human beings and human relationships is not identical to science as applied to things and processes, the strategies used are not oppositional. It is simply that strategic modifications are introduced because of the qualitative difference in subject matter. Many of the scientific issues concerning qualitative research are taken up by Giorgi (1986; 1989a; 1989b; 1992; 1994; 1997; 2000).

In general, phenomenological psychological research aims to clarify situations lived through by persons in everyday life. Rather than attempting to reduce a phenomenon to a convenient number of identifiable variables and control the context in which the phenomenon will be studied, phenomenology aims to remain as faithful as possible to the phenomenon and to the context in which it appears in the world. This means that to study a particular phenomenon, a situation is sought in which individuals have

highly revealing. However, because phenomenology deals with experiences events or respond to different situations greatly exceeds the capacity to know to what is being experienced by them. Usually, the capacity to live through comitant with these lived experiences, they are hardly ever totally coincident context of the participants' lives. While persons' awarenesses are conseeks the psychological meanings that constitute the phenomenon through psychological essence of the phenomenon. In other words, phenomenology and meanings, its scientific status is often suspect. We intend to show, the meanings being lived by persons from a psychological perspective can be exactly what we do or why we do what we do. Consequently, an analysis of investigating and analysing lived examples of the phenomenon within the by the participant, phenomenological analysis attempts to discern the phenomenon is experienced within the context in which the experience their life. The aim is to capture as closely as possible the way in which the first-hand experiences that they can describe as they actually took place in however, that phenomenological research can follow the general dictates of takes place. From this rich contextual example of the phenomenon as lived

Toward a Manageable Project

Most psychologists have issues or problems they would like to have the opportunity to research, but these are usually unformulated, vague and too impractical to carry out. It takes a careful honing and a disciplined attitude to convert an interest into a feasible research project. It takes a great use of knowledge and imagination to eliminate certain variables, control others and realize how to concretize still others in acceptable ways. In general, the under elimited and more precise the research question is, the better the research is.

Since the primary purpose of this chapter is to demonstrate a specific type of qualitative research, we shall not dwell long on this first point. In order to test the method as it was developing, we used the phenomenon of learning as the vehicle for research because participants usually found it easy to describe, and they had few inhibitions about picking situations they did not mind sharing with others. In addition, for at least a half-century, learning was a key phenomenon for psychological research because of behaviourism and the verbal learning tradition. Thus, if phenomenological research could throw new light on learning, its usefulness could be demonstrated because of the long history of psychological research on learning.

However, in order to get as many perspectives on learning as possible, we also began to gather descriptions of failures to learn. Consequently, this phenomenon will be used to demonstrate the scientific phenomenological method. While the question may seem to be too general for precise research,

of experiences; moreover, it parallels rather precisely the original questions dealing with descriptions of learning. it is not so from the phenomenological perspective that seeks the meanings

The Lifeworld of Learning

or failed to learn, instead of trying to set up a specific laboratory situation in situation beyond recognition. This is an especially important problem when the phenomenon of learning. relationships between the persons and the situations in order to account for experienced situations can become the basis for higher-level invariable that every situation, as well as the experiences, will be different, the various they experienced situations in which they learned. Even though it is assumed anyway), we decided to go to the participants and have them describe how because different individuals bring different meanings to the one situation the researcher's trying to come up with one alleged constant situation (alleged expectation that subjects will encounter the hoped-for experience. Instead of difficulty is to have individuals describe situations in which they have learned whatever, as is true of learning or failing to learn. One way around this phenomena are so diverse that they can occur practically in any setting model or guide, or else the research situation may transform the original life - which phenomenologists call the lifeworld - should still serve as a thoroughly. However, the way that such a phenomenon appears in everyday do spontaneously in everyday life, one, of course, has to study it more If one wants to understand a phenomenon in a better way than one can

experiences of failures to learn with the experiences of successful learning previously acquired. standing of learning, and the specific research project is to contrast the Consequently, the psychological interest has to do with a better under-'Please describe for me a situation in which you learned', most directly. which you failed to learn.' As mentioned, this parallels the original request, the purposes of the research, was this: 'Please describe for me a situation in The request made of the participants, after a general introduction about

conducted by the authors. We try to limit workshop data to a page or two, verbatim descriptions received from two participants are given in Box 3.1. be used in a chapter of this size. (For other examples, see Giorgi, 1985.) The data are amenable, but Ph.D. dissertation data are consistently far too long to of data collected in published articles or dissertations. Sometimes MA thesis holistic in orientation, so it is practically impossible to select only a portion because the analysis is usually a lengthy procedure, and the method is interviews. The data being used in this chapter came from workshops both sets of data represent original descriptive data rather than transcribed The descriptions of two participants will be used in this chapter, and

Box 3.1 Descriptions by participants

carefully: it was explained to me. Still, I had not learned. I wondered what I had done blanks. Each time I tried, I adjusted the blank's position a bit differently. I tried to from its slot and compared it to the master. The grooves were not identical. The duplicate, I realized that I was doing something wrong./ I removed the copied key that usually cut the keys was not available, so I had to do it./ Material prepared, customer had requested several copies of a round key. He was waiting. The person customer and explained that it should be tested as I was not sure it would work. produced a duplicate that seemed to be like the master key. I gave the key to the was a bit more tightly coiled./ By the time I was on my third try and blank, I was same as the master. / } kept trying, each time adjusting the key so that the spring was to be left in a loosely colled position. But the keys I kept making were not the which keeps the blank at a proper distance from the drill.)/ I was sure that the spring copied key had much longer and wider grooves./ I started over. I tried several more more often. It just did not sound right to me./ By the time I had finished the first observed the key-making process several times, but had "listened to" the process small unit). I made sure both the keys were lined up just as I had observed when I placed the master key and the blank in their proper positions on the key machine (a Had I not gotten nervous I might have figured this out myself eventually./ wrong./ (I found out later that the spring did in fact have to be coiled very tightly.) Back at my desk, I felt miserable./ I had watched the key-making process so getting nervous. Someone was waiting for the copies I was trying to make./ I finally remember exactly what position the blank had to be in. (There is a small spring necessary to cut each edge. I was accustomed to the noise of the machine. I had which etches an identical groove onto the blank, was taking more time than seemed duplication./ As I was turning the master key to each groove, I realized that the drill, was being taught to use the machine. I turned the unit on and began the process of l learned how to copy a key several days before I actually had to make one./ Now,

Participant no. 2

couldn't and the more I tried the more I failed and the more ridicule I got, but I had no success./The bike got a flat tyre, we never did get it fixed and it was the only bike really be stupid: anyone can ride a bike, it doesn't take brains to do that.' But I just learning or at least getting over the fear when the family would say, 'Boy you must catching on at how to do it, it was very trustrating. /A couple of times I thought I was I was about 10 years old when I first attempted to ride a bike. We had only one./ we had. I don't know if I was glad or sad. I was glad at times because I could use the the brake too soon. Always something,/ and between fear of getting hurt and not for me to learn but for me it was disaster./ I'd try and fall over. I'd try again and use backyard where I lived with small hills or grades in it, so you'd think it would be easy My older brothers had learned long before, so I thought I would. We had a large

continued

flat tyre as an excuse, but I was sad also because then I was left feeling dumb and

the bike, fear and lack of confidence play a big part in it. Secause if you fear and don't and when you try over and over and still fail, you wonder./ But I think, in the case of simple. I know all my children ride a bike and I do feel dumb not knowing how / but where I live now. The kids thought everyone should know how to ride a bike, "What's up./ And maybe someday I'll try again and just maybe I'll succeed./ have confidence you won't succeed, but this comes a lot from the way you're brought this is just a small failure in my life. I have bigger ones./ But failure is very frustrating and the frustration of not being able to learn something that everyone says is so your problem, Mom?'/Well, I did try, still without success, still the fear of getting hurt Well, many years later, after being married and all, I tried again to ride a bike here

Determination of Data and Method

factors even if they are not blatantly manifest. requires that the researcher be ever mindful of co-determining contextual kind of limitation must be weighed in all analyses. Consequently, all research one can never catch up with the totality of what was 'lived through', and this some non-verbal data can also be noted in addition to the verbal account, but still implies that only one perspective was utilized. In a face-to-face interview, are not accounted for. Collecting only non-verbal data through videotape justified. Similarly, collecting verbal data means that non-verbal interactions the limits of the chosen method, and often this choice cannot be fully theory, and vice versa. Nor can one simply combine them. One has to accept one chooses the phenomenological method, one cannot use grounded happens within a research setting than is recorded by 'data'. For example, if there are more methods available than the one actually chosen and more observe is that they both imply a certain slippage or contingency. That is, intimately connected that it is better to treat them together. The first point to While these two procedures could be separated artificially, they are so

psychological meaning as lived by the participant, the description of what it analysis of the descriptive data more than anything else is the search tor often becomes retrospective descriptions. Moreover, since what drives the how persons actually lived through and interpreted situations, the database appropriate numbers are obtained. Since what is key for phenomenology is one must respect the assumptions of the procedure chosen and be sure that situate oneself accordingly; and if one wants to use statistical procedures, ments. If one wants behaviour observation to be the basis of data, one must one wants voice registration, one would need different appropriate instru-If one wants to record behaviour, one needs instruments that will do so; if The infimate reciprocity between method and data should be obvious.

> among the raw data that is obtained, the method of analysis and the outcomes that are sought. was like for the participant is an excellent database. Thus, there is a harmony

data because of their convenience, they are not the only source. It is possible data are not limited to retrospective descriptions. are mentioned so that the reader knows that phenomenological analyses of the video, another researcher, or the participants themselves. These options can also be recorded while watching the videotapes, either by the recorder of establish behavioural meaning units rather than verbal ones. Commentary even possible to videotape the behaviour of others and then replay it and perspective of everyday life rather than technical descriptions. Indeed, it is behaviour from others, so long as they are good descriptions from the method (Aanstoos, 1985), and it is even possible to obtain descriptions of to obtain ongoing descriptions from participants by using the 'talking aloud' Wibile retrospective descriptions are often the source of phenomenological Perhaps this is a good place to clear up a possible misunderstanding

the phenomenological perspective. will pause momentarily to articulate some necessary concepts belonging to Consequently, before speaking about the first two steps of the procedure, we straightforward and basically noninterventional with respect to the raw data. the method. It can do this because the first two steps of the method are The data presentation in Box 3.1 actually includes the first two steps of

everyday life or with the "common-sense" attitude. harder to do than to say. Unexpected biases lurk everywhere, especially in that description is a tricky matter. Achieving careful descriptions is much ness. Most generically, what every person is present to is the world or some they are derived acts. Husserl upholds a presentational theory of consciousrepresentation of it. Representations in the ordinary sense exist, of course, but insist that it is the object itself that is grasped by consciousness, not some loving is directed towards a loved object, etc.). Moreover, phenomenologists transcend the acts themselves (a perceptual act perceives a perceptual object; intentionality means that all acts of consciousness are directed to objects that or other (the real world, an imaginary world, the dream world, etc.). Strictly ness, and it means that consciousness is always directed toward some world not to be confused with our everyday sense of being 'goal-oriented' or Husserl's basic answer is 'by careful description'. However, Husserl was aware how is one to communicate these objects of consciousness or experience: aspect of it. Consequently, if acts of consciousness grasp objects in the world 'deliberate'. Intentionality is the essence of consciousness, rather than aware-A key notion of phenomenology is the idea of intentionality, which is

other is called the phenomenological reduction, although sometimes both guarantees. One attitudinal shift is called 'epoche', or 'bracketing', and the introduced certain attitudinal modifications, but, of course, they are not Thus, to obtain the most precise data from descriptive practices, Husser

notice different nuances or new dimensions of the phenomenon. ing other instances of the same phenomenon possibly helps the researcher to these other sources but rather not to engage them so that there can be no knowledge about the phenomenon being researched that comes from other the concrete experiences being researched, he recommended that one bracket generalization. In order to help researchers be fresh and maximally open to all. There is a grain of truth in this, but it is also obviously too sweeping a one has been to all of them, or if one can drive one car, one can drive them experiences under the rubrics of earlier ones. If one has been to one party, was aware that a common error in description is simply to subsume later attitudinal shifts are discussed under the heading of the 'reduction'. Husserl influence from them on the instance being considered. In addition, bracketinstances or indirect sources. To bracket does not mean to be unconscious of

actually are the way they present themselves to be. exactly as they present themselves to be, but no claim is made that they sciousness that is engaged with the world. The only difference that the consciousness, but this consciousness is considered to be a human conreduction also requires the consideration of the given from the viewpoint of mode of consciousness. What we call the scientific phenomenological such, that is, any creature's consciousness, and not specifically a human thing that is given to consciousness from the perspective of consciousness as tion, and this reduction requires an attitude whereby one considers everyscientific phenomenological reduction. The reduction that Husserl wanted phenomenological psychological reduction, but which we prefer to call the under discussion. The one we will employ is the one that Husserl called the tion, but there is only space to consider the one most relevant to the method nomenological reduction. Husserl posited several types and levels of reducbeing considered are taken to be presences, not realities. They are taken to be scientific reduction introduces is the fact that the objects or states of affairs philosophers to use he called the transcendental phenomenological reduc-The second methodological aid that Husserl suggested was the phe-

stantly deal with them. For example, we encounter hallucinations, images, presence, not to actual existence. to us. In other words, the epistemological claim reaches only as far as common error whereby we state that reality is just the way it presented itself but not as phenomena of the external world. This step helps us to resist the dreams, false memories and so on that we recognize as experiential givens, Psychologists should be familiar with such phenomena, since we con-

Data Analysis: Four Basic Steps

straightforward. basically involves four steps, and, as noted above, the first two are relatively We are now ready to confront the raw data of our research. The procedure

> of the clarification of sense. more needs to be done here because the subsequent steps continue the work know the global sense of the description before proceeding farther. Nothing The phenomenological perspective is a holistic one, and so one does need to certain other methods analysing verbal data do not impose this requirement. participant. This is an obvious step, but it needs to be made explicit because Then the first actual step is to read the entire description written by the mindful of the phenomenon being studied (in this case, the failure to learn). get within the attitude of the scientific phenomenological reduction, and be The first is that the researcher must assume a psychological perspective,

examples chosen for this chapter, but it is absolutely necessary when the the text. That is why the original descriptions in Box 3.1 contain slashes meaning based upon the attitude we initially described, they place a slash in the description, and every time the researchers experience a transition in units' (the name applied to the parts) are formed by a careful rereading of meaning transitions to constitute the parts. Operationally, the 'meaning ultimately meanings that the analysis aims to discover, we use the criteria of the criteria most relevant to a psychological perspective, and since it is perspective. Since we are doing psychological analyses, we would want to use to an extent l'ar beyond what would have been possible from a holistic the constitution of parts is helpful because one can clarify implicit matters original raw data cover over 100 pages. But even with small sets of data, description. This step is a bit of a luxury with the brief, demonstrative The second step of the method is the constitution of the parts of the

with other researchers. is how the meaning units are transformed, not their size or their comparison will help the achievement of the subsequent step. Ultimately, what matters different meaning units. The making of meaning units is a practical step that researcher. Nor is it important that different researchers may constitute the texts as such; rather, they are correlated with the attitude of the It is important to note that there are no 'objective' meaning units in

controlling participant responses, whether human or animal. In other words, for controlling stimulus intensity and quality, and other instruments for naturalistic settings. There are darkrooms, soundproof rooms, instruments artificial environment constructed precisely in order to improve upon the fact that the laboratory itself is not a natural setting. It is a highly laboratory and gets data rather directly. However, what is often overlooked is often is the laboratory tradition. It seems as though one goes into the modifications of original data. What makes this difficult to comprehend very advocating. However, science almost always demands transformations or to be active transformations of sense by the researcher in the method we are mations that follow. Colleagues are often surprised to see what they consider the transformations take place initially in the situation so the data can be Perhaps the third step is the time to say a word about the transfor-

everyday perspective, but in order to make the raw data most relevant to after the raw data are collected. psychology (or any other discipline), the transformations have to take place collected straightforwardly. With our method, the data are collected from an

disciplinary analyses. it is obvious that the same set of raw data can be the basis for several as they appear important to the participant. Since meanings are also basically spective of the lifeworld, one is picking up contextual and referential issues relationships. Consequently, by beginning with a description from the perintrinsically related. One can abstractly isolate experiential variables or ences belong to a given individual, they tend to be interdependent and manipulation of variables was relatively easy. However, in so far as experior other phenomena that were fundamentally independent, and so the intrinsically related. The laboratory tradition began with research on 'things' are independent of each other and externally related, or interdependent and relevance of these connections to psychology have to be made explicit, since relate to each other actually rather than hypothetically. Finally, the special relational, one begins to see how different dimensions of the experience tionships are so primary that a person cannot be defined without referring to the structure of the experience. Where human beings are concerned, relafactors, but one cannot do that actually without simultaneously modifying research? Basically, the difference depends on whether variables or factors Why this difference between the laboratory tradition and experiential

visible the psychological meanings that play a role in the experience. of psychological jargon so much as genuinely articulating and rendering Thirdly, where possible, one is to describe what took place in ways that are situation as an example of something and clarify what it is an example of what so that the analyses are not so situation specific. Seeking the psychoclearly articulated or in full awareness. A second aim is to generalize someallows the analysis to reveal meanings that are lived but not necessarily psychologically sensitive. This does not mean 'labelling' meanings in terms logical meaning of a situation in part means to go from the concrete lived respect to psychological meaning. This aspect of the transformation is what One goal is to transform what is implicit to the explicit, especially with The type of transformations being sought can be specified a bit more.

highlighting of the psychological dimension. difference between the two right-hand columns is simply synthesis and fixed number of transformations; one does whatever is necessary.) The represent the transformations performed by the researcher. (There is no tion of a situation in which they failed to learn. The two right-hand columns 3.2 and 3.3, the left-hand column presents in their own words their descrip-Let us now turn to the analyses. For both participants 1 and 2 in Boxes

duplication.

since the purpose here is demonstrative, we have done so anyway. Writing a Normally, one would not try to write a structure for a single case, but

Participant no. 1

Box 3.2 Analysis of participant 1's (P1) data

		actually had to make one.	key several days before t	 I learned how to copy a
produce a prod	before he actua	certain skill sev	apparently acqu	1. P1 states the

of a round key. He was not available, so I had to usually cut the keys was waiting. The person that requested several copies Now, a customer had

product that involved the P1 states that he had that he had to do it. was not around, P1 produced that product product. Since the person skill and the potential user had requested the because a potential user to exercise the recently reluctantly recognized the machine that who ordinarily operates was waiting for the acquired skill on his own

pressure.

such a situation and to execute the skill in among his first attempts

participant 1 feets the

required the skill. duct that ally had to veral days uired a nat he had

1 + 2. P1 found himself in to execute a recently a situation where he had user waiting. It is clearly situation with the potential guidance, in a 'real' that is, without instructor acquired skill, on his own

to use the machine. I when I was being taught Material prepared, i began the process of turned the unit on and just as I had observed the keys were lined up unit). I made sure both key machine (a small proper positions on the and the blank in their placed the master key and began the process of instructed. P1 says that seeing them when being as he remembered original and the duplicate relationship between the original and a duplicate product involved an and since making the P1 states that he got he turned on the machine that he lined up the between them, P1 claims and a precise relationship the material prepared

observed it when he was of the relationship as he is very likely that the first acquiring the skill. It P1 relied on his memory have told him the answer which in the absence of original and the duplicate in getting the materials was no apparent difficulty P1 relates that there the teacher who could relationship between the was the precise first trouble point for P1 not yet clear to P1, the assembled, but, although

continued

making the product.

needed it to be in his the machine. the process by turning on P1 nevertheless began present circumstances. not as focused as P1 lived and perceived was relationship as originally

groove, I realized that the master key to each As I was turning the sound right to me. more often. It just did not "listened to" the process several times, but had the key making process machine. I had observed to the noise of the edge. I was accustomed necessary to cut each time than seemed blank, was taking more identical groove onto the drill, which etches an

attempt did not sound seem right to him. P1 seemed necessary and continued, he observed 4. P1 states that as the machine made did not that the noise that the be taking longer than that one part seemed to process started and right to his ears. frequently, and this had 'heard' it more several times before, he observed the process noted that while he had

operating the machine, he 4. P1 states that during the necessary to P1 also seemed fonger than neither looked nor sounded the production process knew at this time was that contrasted, and all that he instances also memorially even more auditory prior given memorially, and previous observations now was contrasted to several experience of the process trouble was. The present not pinpoint just what the discrepancies, but he could be visual and auditory observed what appeared to ensued and that he was time that the process right to him. The process

> at a proper distance. a part of the machine

original and duplicate

was correct.

something wrong. I realized that I was doing finished the first duplicate, By the time I had

attempt at making the 5. P1 states that by the time he finished his first wrong. was doing something product, he knew that he

P1 states that he and saw that the two compared it to the original the machine and removed the product from

were not identical. The master. The grooves compared it to the key from its slot and I removed the copied

continued

precisely confirmed when perception of the process product implied more time construction of his with the original. The P1 compared his product wrong and this was the product, he feft it was (grooves ionger and wider) just as his

5 + 6. When P1 finished had indicated and had

copied key had much longer and wider grooves.

> product he produced was were not identical. The

corresponded to his 'off' in a way that

a perfect match.

duplicate was indeed not performing correctly. Now given P1 a feeling of not

he could confirm that the

perception. visual and auditory

distance from the drill.) the blank at a proper small spring which keeps had to be in. (There is a what position the blank tried to remember exactly position a bit differently. I adjusted the blank's Each time ! tried I several more blanks. I started over. I tried supposed to be in. P1

position the duplicate was memory for the exact used a different initial attempt, P1 states that he and tried several more started the process again 7. P1 states that he position as he groped in duplicates. With each

then explains that there is which keeps the duplicate reference point in the the machine so that the knowledge or of a duplicate since his principle guiding the time he used random started the process over relationship between the concern was how to set explained that the was only vague. Pt then knowledgeable other, absence of precise memory, which was the initial position of the trial and error as the duplicates and each again with different P1 then states that he

8. I was sure that the master.

a loosely coiled spring was to be left in the same as the kept making were not position. But the keys I

the spring was a bit more I kept trying, each time adjusting the key so that and one difference that Nevertheless, P1 states that he kept trying he introduced each time was to tighten the device

little bit more. that he had kept loose a

error process.

tightly coiled.

original. not the same as the products he made were meant to be loose, but the 8. P1 states that he was sure that one device was

8 + 9. P1 states that one meant to be loose; of the machine was this part of the machine alleged certitude, P1 nevertheless, in was that a certain piece point of certitude for him experimental trial and varied the 'looseness' of contradiction of this as part of his

continued

process he had just lived

wondered what there was

about this living through

not correct.

of the procedure that was

through

nervous. Someone was my third try and third was trying to make. blank, I was getting By the time I was on waiting for the copies i

duplicate, he began to get he was on his third 10. P1 states that when more conscious of the nervous. P1 became attempt, and third person waiting for his

should have been able to 10. P1 states that by his other, who was waiting, do in the eyes of the third attempt at making he began to get nervous what he felt that he expectant, waiting awareness of the between the task and his phenomenal field

gave the key to the be like the master key. I I was not sure it would that it should be tested as customer and explained

duplicate that seemed to finally produced a

finally produced a P1 states that he user with a sense of duplicate to the potential sure. He gave the the original, but he wasn't duplicate that seemed like to him that it should be insecurity and explained sure it would work. tested since he was not

sense of insecurity and duplicate but gave it to apparently acceptable finally produced an P1 states that he the waiting other with a functional product might not be with warning that the

eventually.

phenomenal field, he

that had he not become have been. P1 reflects and he kept the tension in

miserable. 12. Back at my desk, I felt 12. P1 then states that he

> aspect that he thought he and error testing even the way, submitted to trial have also, in a knowing own. That is, he might correct procedure on his might have figured out the entered into a tense nervous, and thus

might possibly have was sure about, and

procedure on his own. discovered the correct

returned to his own place at work and felt

13. I had watched the miserable. P1 reflects on the

that he had watched the process he just lived process had been product carefully; the process of making the through. He was aware that he made a product learned, despite the fact concluded that he had not explained to him. But he was wrong with the and he wondered what

continued

wondered what I had had not learned. I explained to me. Still, I carefully, it had been key-making process so

done wrong.

his own place in the work 12 + 13. P1 then went to environment feeling truly appropriated the apparently he had not explained to him, but carefully and had had it process apparently that he had observed the duplicate. P1 was aware attempts to make the miserable about his produced a duplicate, P1 self-directed way, and process in an embodied, of the process and even though he had knew he was not master

> out myself eventually. to be coiled very tightly.) the spring did in fact have (I found out later that might have figured this Had I not gotten nervous I

device had to be tight. P1 states that had he not was meant to be. The opposite to what the case 'sure' about was precisely what he thought he was 14. P1 later found out that

fact out on his own could have figured that become nervous, there was a chance that he therefore explicitly not 'certainty' was the since his remembered questioned, that was the he was 'sure' about, and that it was precisely what was. He became aware tound out where the error 14. P1 states that he later opposite of what it should source of the trouble

spoke about making a product that required the skill instead of a key. In and Giorgi, in press). We mentioned above some of the specific reasons for their position differently, and we spoke about the 'process' that participant 1 meaning unit 7, participant 1 talked about 'blank keys' and how he adjusted 3.2, we see that 'making a key' was replaced by 'acquiring a skill', and we degree of generalization should take place. Thus, in meaning unit 1 of Box transformation of the raw data. One of the points we made was that a certain (For an example of where two descriptions fit under one structure, see Giorgi there is minimal variation to help the researcher intuit what is common.

structure based upon a single example is the most difficult condition since

others has a constraining Attitude of significant

Participant no. 2

only one. to ride a bike. We had old when I first attempted i was about 10 years

easily (ride a bike). P2 children seem to acquire acquire a skill that many she first attempted to P2 was a child when only one such object. states that her family had

a large backyard where ! it would be easy for me to grades in it, so you'd think lived with small hills or disaster, leam, but for me it was

disasters.

My older brothers had

thought I would. We had tearned long before so I

for acquiring the skill as an and so she thought that described the environment she would try. P2 skill long before she did the actual attempts were efforts, but she says that and one favourable for her apparently suitable one siblings had learned the

2. P2 states that her older It was implicit from the the same. been easy for P2. The siblings that the environment suggested achievement should have

I'd try and fall over. I'd something, brake too soon. Always try again and use the

P2 states that she would try again and make would try and fail. She one type of error or other, succeeding. prevented her from always something that

was very trustrating. catching on at how to do it getting hurt and not and between fear of

trying to acquire the skill P2 states that between the fear to the failure.) be frustrating. (She found the experience to do it successfully, she and not ever being able to fear of getting hurt in apparently does not relate

continued

P2's attempt to acquire learning, Never acquiring the skill, as is success also is experiencing a moment of attitude is not conducive to the skill with a fearful the consequent frustration. counterproductive for

> take brains to do that." would say, 'Boy, you must at least getting over the thought I was learning or A couple of times ! can ride a bike; it doesn't really be stupid; anyone fear when the family

correct performance when she was on the 5, P2 states that there derisive remarks others would make when P2's significant 'catching on' to the

the skill. to her attempts to acquire regarding her in relation

attempts.

and these inhibited her negative remarks instead have helped P2, she got encouraging words might key moments. When effect on P2, especially at

her fear of being hurt or were a coupte of times threshold of overcoming

success ridicule I got, but without the more I tried the more I But I just couldn't, and failed and the more

6. P2 states that for some more she tried ridicule she got from she failed, the more she failed, and the more acquire the skill, and the reason she just could not significant others - but (performed?) the more

pidnis. left feeling dumb and an excuse, but I was sad could use the flat tyre as glad at times because I was glad or sad, I was and it was the only bike also because then I was we had. I don't know if I we never did get it fixed

The bike got a flat tyre,

without success.

make new attempts ambivalence -- alternately excuse for her not to as dysfunctional was an glad because the object actual state of the object acquire the skill without could no longer attempt to object became nonglad and sad, P2 was left her in a state of repairing the object. The functional, and so she 7. P2 states that the

realized that the state of was sad because she significant others). But P2 (before ridiculing

completing task). dissatisfaction in not the further challenge, but feelings (relief from unresolved ambivalent experience left P2 with the lack of closure of the with excuses. However, confrontation with closure closure, and avoided relation to the task to motivated to bring her P2 seemed not

continued

acquiring an apparently which she fell 'dumb' for dysfunctional was one in object became easy skilt. never succeeding in affairs at the time the

all I tried again to ride a after being married and everyone should know now. The kids thought bike here where I live What's your problem, how to ride a bike,

8. Well, many years later

8. P2 states that many years later, as an adult to be easy. able to acquire the skill that anyone should be the attitude of her children the skill again because of P2 attempted to acquire with children of her own, because it was perceived

without success, still the says is so simple. I know something that everyone being able to learn the frustration of not tear of getting hurt and and I do feel dumb not all my children ríde a bike knowing how.

Welf, I did try still

9. P2 states that she skill that relatives and not being able to perform a getting hurt and still succeed, acknowledged acquire the skill, but didn't attempted once again to experienced a frustration in that she still had the fear of as simple. acquaintances perceived

bigger ones. failure in my life. I have But this is just a small

10. However, P2 is merely a single failure tailure to acquire the skill acknowledges that the in her life. She admits to

having bigger ones.

to change.

thus creating a situation because she can point to where there is no motive others that overshadow it, 10, P2 accepts this failure

fail, you wonder try over and over and still frustrating, and when you But failure is very

and that failure after is very frustrating for her, acknowledges that failure Nevertheless, P2

continued

herselt). her wonder (about repeated attempts make

brought up. lot from the way you're confidence you won't tear and don't have case of the bike, fear and 12. But I think that in the succeed, but this comes a big part. Because if you lack of confidence play a

played big parts in her of confidence in herself by suggesting that her failure to acquire the skill then theorizes fear of being hurt and lack interpretation of her P2 offers an

and if one is afraid of experience of failure. P2 does not have confidence (generalizes) that if one

lacking,

motivation to succeed is Maybe that's why greater make it acceptable. self-interpretations on the seems in line with familiar part of P2 that seem to

The failure experience

possibly being hurt when

in which one is brought up, implying that it applies generalization to the way does not succeed. adequately on a task, one However, P2 relates this trying to perform

And maybe someday Finally, P2 suggests that sometime in the

maybe I'll succeed. I'll try again and just

and expresses the acquire the skill again, be motivated to try to future she could possibly may succeed the next (wishful?) hope that she

would fall into place as well. Yet, the claim is made that the psychological sitions', the reader can see the potential for synthesis if all other constituents calling 'learning to make a key' and 'learning to ride a bike' 'skill acquiexpress that point by saying 'the object became non-functional'. By our meaning unit 7, participant 2 states that 'the bike got a flat tyre', and we was trying to achieve. In Box 3.3, for participant 2, in meaning unit 1 again, 'learning to ride a bike' becomes 'an attempt to acquire a skill' and in

Phenomenology