

PHILOSOPHICAL INVESTIGATIONS

The English Text of the Third Edition

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143. Let us now examine the following kind of language-game: when A gives an order B has to write down series of signs according to a certain formation rule.

The first of these series is meant to be that of the natural numbers in decimal notation.—How does he get to understand this notation?—First of all series of numbers will be written down for him and he will be required to copy them. (Do not balk at the expression “series of numbers”; it is not being used wrongly here.) And here already there is a normal and an abnormal learner’s reaction.—At first perhaps we guide his hand in writing out the series 0 to 9; but then the *possibility of getting him to understand* will depend on his going on to write it down independently.—And here we can imagine, e.g., that he does copy the figures independently, but not in the right order: he writes sometimes one sometimes another at random. And then communication stops at *that* point.—Or again, he makes ‘mistakes’

in the order.—The difference between this and the first case will of course be one of frequency.—Or he makes a *systematic* mistake; for example, he copies every other number, or he copies the series 0, 1, 2, 3, 4, 5, like this: 1, 0, 3, 2, 5, 4, Here we shall almost be tempted to say that he has understood *wrong*.

Notice, however, that there is no sharp distinction between a random mistake and a systematic one. That is, between what you are inclined to call “random” and what “systematic”.

Perhaps it is possible to wean him from the systematic mistake (as from a bad habit). Or perhaps one accepts his way of copying and tries to teach him ours as an offshoot, a variant of his.—And here too our pupil’s capacity to learn may come to an end.

146. Suppose I now ask: “Has he understood the system when he continues the series to the hundredth place?” Or—if I should not speak of ‘understanding’ in connection with our primitive language-game: Has he got the system, if he continues the series correctly so far?—Perhaps you will say here: to have got the system (or, again, to understand it) can’t consist in continuing the series up to *this* or *that* number: *that* is only applying one’s understanding. The understanding itself is a state which is the *source* of the correct use.

What is one really thinking of here? Isn’t one thinking of the derivation of a series from its algebraic formula? Or at least of something analogous?—But this is where we were before. The point is, we can think of more than *one* application of an algebraic formula; and every type of application can in turn be formulated algebraically; but naturally this does not get us any further.—The application is still a criterion of understanding.

149. If one says that knowing the ABC is a state of the mind, one is thinking of a state of a mental apparatus (perhaps of the brain) by means of which we explain the *manifestations* of that knowledge. Such a state is called a disposition. But there are objections to speaking

of a state of the mind here, inasmuch as there ought to be two different criteria for such a state: a knowledge of the construction of the apparatus, quite apart from what it does. (Nothing would be more confusing here than to use the words “conscious” and “unconscious” for the contrast between states of consciousness and dispositions: For this pair of terms covers up a grammatical difference.)

185. Let us return to our example (143). Now—judged by the usual criteria—the pupil has mastered the series of natural numbers. Next we teach him to write down other series of cardinal numbers and get him to the point of writing down series of the form

$$0, n, 2n, 3n, \text{ etc.}$$

at an order of the form “+n”; so at the order “+1” he writes

down the series of natural numbers.—Let us suppose we have done exercises and given him tests up to 1000.

Now we get the pupil to continue a series (say +2) beyond 1000—and he writes 1000, 1004, 1008, 1012.

We say to him: “Look what you’ve done!”—He doesn’t understand. We say: “You were meant to add *two*: look how you began the series!”—He answers: “Yes, isn’t it right? I thought that was how I was *meant* to do it.”—Or suppose he pointed to the series and said: “But I went on in the same way.”—It would now be no use to say: “But can’t you see . . . ?”—and repeat the old examples and explanations.—In such a case we might say, perhaps: It comes natural to this person to understand our order with our explanations as *we* should understand the order: “Add 2 up to 1000, 4 up to 2000, 6 up to 3000 and so on.”

Such a case would present similarities with one in which a person naturally reacted to the gesture of pointing with the hand by looking in the direction of the line from finger-tip to wrist, not from wrist to finger-tip.

186. "What you are saying, then, comes to this: a new insight—intuition—is needed at every step to carry out the order '+n' correctly."—To carry it out correctly! How is it decided what is the right step to take at any particular stage?—"The right step is the one that accords with the order—as it was *meant*."—So when you gave the order +2 you meant that he was to write 1002 after 1000—and did you also mean that he should write 1868 after 1866, and 100036 after 100034, and so on—an infinite number of such propositions?—"No: what I meant was, that he should write the next but one number after *every* number that he wrote; and from this all those propositions follow in turn."—But that is just what is in question: what, at any stage, does follow from that sentence. Or, again, what, at any stage we are to call "being in accord" with that sentence (and with the *mean*-ing you then put into the sentence—whatever that may have consisted in). It would almost be more correct to say, not that an intuition was needed at every stage, but that a new decision was needed at every stage.

187. "But I already knew, at the time when I gave the order, that he ought to write 1002 after 1000."—Certainly; and you can also say you *meant* it then; only you should not let yourself be misled by the grammar of the words "know" and "mean". For you don't want to say that you thought of the step from 1000 to 1002 at that time—and even if you did think of this step, still you did not think of other ones. When you said "I already knew at the time" that meant something like: "If I had then been asked what number should be written after 1000, I should have replied '1002'." And that I don't doubt. This assumption is rather of the same kind as: "If he had fallen into the water then, I should have jumped in after him".—Now, what was wrong with your idea?

188. Here I should first of all like to say: your idea was that that act of meaning the order had in its own way already traversed all those steps: that when you meant it your mind as it were flew ahead and took all the steps before you physically arrived at this or that one.

Thus you were inclined to use such expressions as: "The steps are *really* already taken, even before I take them in writing or orally or in thought." And it seemed as if they were in some *unique* way pre-determined, anticipated—as only the act of meaning can anticipate reality.

189. "But *are* the steps then *not* determined by the algebraic formula?"—The question contains a mistake.

We use the expression: "The steps are determined by the formula". *How* is it used?—We may perhaps refer to the fact that people are brought by their education (training) so to use the formula $y = x^2$, that they all work out the same value for y when they substitute the same number for x . Or we may say: "These people are so trained that they all take the same step at the same point when they receive the order 'add 3' ". We might express this by saying: for these people the order "add 3" completely determines every step from one number to the next. (In contrast with other people who do not know what they are to do on receiving this order, or who react to it with perfect certainty, but each one in a different way.)

On the other hand we can contrast different kinds of formula, and the different kinds of use (different kinds of training) appropriate to them. Then we *call* formulae of a particular kind (with the appropriate methods of use) "formulae which determine a number y for a given value of x ", and formulae of another kind, ones which "do not determine the number y for a given value of x ". ($y = x^2$ would be of the first kind, $y \neq x^2$ of the second.) The proposition "The formula determines a number y " will then be a statement about

the form of the formula—and now we must distinguish such a proposition as "The formula which I have written down determines y ", or "Here is a formula which determines y ", from one of the following kind: "The formula $y = x^2$ determines the number y for a given value of x ". The question "Is the formula written down there one that determines y ?" will then mean the same as "Is what is there a formula of this kind or that?"—but it is not clear off-hand what we are to make of the question "Is $y = x^2$ a formula which determines y for a given value of x ?" One might address this question to a pupil in order to test whether he understands the use of the word "to determine"; or it might be a mathematical problem to prove in a particular system that x has only one square.

190. It may now be said: "The way the formula is meant determines which steps are to be taken". What is the criterion for the way the formula is meant? It is, for example, the kind of way we always use it, the way we are taught to use it.

We say, for instance, to someone who uses a sign unknown to us: "If by ' $x!2$ ' you mean x^2 , then you get *this* value for y , if you mean $2x$, *that* one."—Now ask yourself: how does one *mean* the one thing or the other by " $x!2$ "?

That will be how meaning it can determine the steps in advance.

201. This was our paradox: no course of action could be determined by a rule, because every course of action can be made out to accord with the rule. The answer was: if everything can be made out to accord with the rule, then it can also be made out to conflict with it. And so there would be neither accord nor conflict here.

It can be seen that there is a misunderstanding here from the mere fact that in the course of our argument we give one interpretation after another; as if each one contented us at least for a moment, until we thought of yet another standing behind it. What this shews is that there is a way of grasping a rule which is *not* an *interpretation*, but which is exhibited in what we call "obeying the rule" and "going against it" in actual cases.

Hence there is an inclination to say: every action according to the rule is an interpretation. But we ought to restrict the term "interpretation" to the substitution of one expression of the rule for another.

202. And hence also 'obeying a rule' is a practice. And to *think* one is obeying a rule is not to obey a rule. Hence it is not possible to obey a rule 'privately': otherwise thinking one was obeying a rule would be the same thing as obeying it.

207. Let us imagine that the people in that country carried on the usual human activities and in the course of them employed, apparently, an articulate language. If we watch their behaviour we find it intelligible, it seems 'logical'. But when we try to learn their language we find it impossible to do so. For there is no regular connexion between what they say, the sounds they make, and their actions; but still these sounds are not superfluous, for if we gag one of the people, it has the same consequences as with us; without the sounds their actions fall into confusion—as I feel like putting it.

Are we to say that these people have a language: orders, reports, and the rest?

There is not enough regularity for us to call it "language".

208. Then am I defining "order" and "rule" by means of "regularity"?—How do I explain the meaning of "regular", "uniform",

"same" to anyone?—I shall explain these words to someone who, say, only speaks French by means of the corresponding French words. But if a person has not yet got the *concepts*, I shall teach him to use the words by means of *examples* and by *practice*.—And when I do this I do not communicate less to him than I know myself.

In the course of this teaching I shall shew him the same colours, the same lengths, the same shapes; I shall make him find them and produce them, and so on. I shall, for instance, get him to continue an ornamental pattern uniformly when told to do so.—And also to continue progressions. And so, for example, when given: to go on:

I do it, he does it after me; and I influence him by expressions of agreement, rejection, expectation, encouragement. I let him go his way, or hold him back; and so on.

Imagine witnessing such teaching. None of the words would be explained by means of itself; there would be no logical circle.

The expressions "and so on", "and so on ad infinitum" are also explained in this teaching. A gesture, among other things, might serve this purpose. The gesture that means "go on like this", or "and so on" has a function comparable to that of pointing to an object or a place.

We should distinguish between the "and so on" which is, and the "and so on" which is not, an abbreviated notation. "And so on ad inf." is *not* such an abbreviation. The fact that we cannot write down all the digits of π is not a human shortcoming, as mathematicians sometimes think.

Teaching which is not meant to apply to anything but the examples given is different from that which '*points beyond*' them.

209. "But then doesn't our understanding reach beyond all the examples?"—A very queer expression, and a quite natural one!—

But is that *all*? Isn't there a deeper explanation; or mustn't at least the *understanding* of the explanation be deeper?—Well, have I myself a deeper understanding? Have I *got* more than I give in the explanation?—But then, whence the feeling that I have got more?

Is it like the case where I interpret what is not limited as a length that reaches beyond every length?

210. "But do you really explain to the other person what you yourself understand? Don't you get him to *guess* the essential thing? You give him examples,—but he has to guess their drift; to guess your

intention."—Every explanation which I can give myself I give to him too.—“He guesses what I intend” would mean: various interpretations of my explanation come to his mind, and he lights on one of them. So in this case he could ask; and I could and should answer him.

211. How can he *know* how he is to continue a pattern by himself—whatever instruction you give him?—Well, how do I know?—If that means “Have I reasons?” the answer is: my reasons will soon give out. And then I shall act, without reasons.

212. When someone whom I am afraid of orders me to continue the series, I act quickly, with perfect certainty, and the lack of reasons does not trouble me.

213. “But this initial segment of a series obviously admitted of various interpretations (e.g. by means of algebraic expressions) and so you must first have chosen *one* such interpretation.”—Not at all. A doubt was possible in certain circumstances. But that is not to say that I did doubt, or even could doubt. (There is something to be said, which is connected with this, about the psychological ‘atmosphere’ of a process.)

So it must have been intuition that removed this doubt?—If intuition is an inner voice—how do I know *how* I am to obey it? And how do I know that it doesn’t mislead me? For if it can guide me right, it can also guide me wrong.

((Intuition an unnecessary shuffle.))

214. If you have to have an intuition in order to develop the series 1 2 3 4... you must also have one in order to develop the series 2 2 2 2...

215. But isn’t *the same* at least the same?

We seem to have an infallible paradigm of identity in the identity of a thing with itself. I feel like saying: “Here at any rate there can’t be a variety of interpretations. If you are seeing a thing you are seeing identity too.”

Then are two things the same when they are what *one* thing is? And how am I to apply what the *one* thing shews me to the case of two things?

216. “A thing is identical with itself.”—There is no finer example of a useless proposition, which yet is connected with a certain play of the imagination. It is as if in imagination we put a thing into its own shape and saw that it fitted.

We might also say: “Every thing fits into itself.” Or again: “Every thing fits into its own shape.” At the same time we look at a thing and imagine that there was a blank left for it, and that now it fits into it exactly.

Does this spot *‘fit’* into its white surrounding?—*But that is just how it would look* if there had at first been a hole in its place and it then fitted into the hole. But when we say “it fits” we are not simply describing this appearance; not simply this *situation*.

“Every coloured patch fits exactly into its surrounding” is a rather specialized form of the law of identity.

217. “How am I able to obey a rule?”—if this is not a question about causes, then it is about the justification for my following the rule in the way I do.

If I have exhausted the justifications I have reached bedrock, and my spade is turned. Then I am inclined to say: “This is simply what I do.”

(Remember that we sometimes demand definitions for the sake not of their content, but of their form. Our requirement is an architectural one; the definition a kind of ornamental coping that supports nothing.)

226. Suppose someone gets the series of numbers 1, 3, 5, 7, . . . by working out the series $2x + 1$. And now he asks himself: “But am I always doing the same thing, or something different every time?”

If from one day to the next you promise: “To-morrow I will come and see you”—are you saying the same thing every day, or every day something different?

227. Would it make sense to say “If he did something *different* every day we should not say he was obeying a rule”? That makes *no* sense.

244. How do words *refer* to sensations?—There doesn't seem to be any problem here; don't we talk about sensations every day, and give them names? But how is the connexion between the name and the thing named set up? This question is the same as: how does a human being learn the meaning of the names of sensations?—of the word "pain" for example. Here is one possibility: words are connected with the primitive, the natural, expressions of the sensation and used in their place. A child has hurt himself and he cries; and then adults talk to him and teach him exclamations and, later, sentences. They teach the child new pain-behaviour.

"So you are saying that the word 'pain' really means crying?"—On the contrary: the verbal expression of pain replaces crying and does not describe it.

245. For how can I go so far as to try to use language to get between pain and its expression?

246. In what sense are my sensations *private*?—Well, only I can know whether I am really in pain; another person can only surmise it.—In one way this is wrong, and in another nonsense. If we are using the word "to know" as it is normally used (and how else are we to use it?), then other people very often know when I am in pain.—Yes, but all the same not with the certainty with which I know it myself!—It can't be said of me at all (except perhaps as a joke) that I *know* I am in pain. What is it supposed to mean—except perhaps that I *am* in pain?

Other people cannot be said to learn of my sensations *only* from my behaviour,—for I cannot be said to learn of them. I *have* them.

The truth is: it makes sense to say about other people that they doubt whether I am in pain; but not to say it about myself.

247. "Only you can know if you had that intention." One might tell someone this when one was explaining the meaning of the word "intention" to him. For then it means: *that* is how we use it.

(And here "know" means that the expression of uncertainty is senseless.)

248. The proposition "Sensations are private" is comparable to: "One plays patience by oneself".

249. Are we perhaps over-hasty in our assumption that the smile of an unweaned infant is not a pretence?—And on what experience is our assumption based?

(Lying is a language-game that needs to be learned like any other one.)

250. Why can't a dog simulate pain? Is he too honest? Could one teach a dog to simulate pain? Perhaps it is possible to teach him to howl on particular occasions as if he were in pain, even when he is not. But the surroundings which are necessary for this behaviour to be real simulation are missing.

251. What does it mean when we say: "I can't imagine the opposite of this" or "What would it be like, if it were otherwise?"—For example, when someone has said that my images are private, or that only I myself can know whether I am feeling pain, and similar things.

Of course, here "I can't imagine the opposite" doesn't mean: my powers of imagination are unequal to the task. These words are a defence against something whose form makes it look like an empirical proposition, but which is really a grammatical one.

But why do we say: "I can't imagine the opposite"? Why not: "I can't imagine the thing itself"?

Example: "Every rod has a length." That means something like: we call something (or *this*) "the length of a rod"—but nothing "the length of a sphere." Now can I imagine 'every rod having a length'? Well, I simply imagine a rod. Only this picture, in connexion with this proposition, has a quite different role from one used in connexion with the proposition "This table has the same length as the one over there". For here I understand what it means to have a picture of the opposite (nor need it be a mental picture).

But the picture attaching to the grammatical proposition could only shew, say, what is called "the length of a rod". And what should the opposite picture be?

((Remark about the negation of an a priori proposition.))

252. "This body has extension." To this we might reply: "Nonsense!"—but are inclined to reply "Of course!"—Why is this?

253. "Another person can't have my pains."—Which are *my* pains? What counts as a criterion of identity here? Consider what makes it possible in the case of physical objects to speak of "two exactly the same", for example, to say "This chair is not the one you saw here yesterday, but is exactly the same as it".

In so far as it makes *sense* to say that my pain is the same as his, it is also possible for us both to have the same pain. (And it would also be imaginable for two people to feel pain in the same—not just the corresponding—place. That might be the case with Siamese twins, for instance.)

I have seen a person in a discussion on this subject strike himself on the breast and say: "But surely another person can't have THIS pain!"—The answer to this is that one does not define a criterion of identity by emphatic stressing of the word "this". Rather, what the emphasis does is to suggest the case in which we are conversant with such a criterion of identity, but have to be reminded of it.

254. The substitution of "identical" for "the same" (for instance) is another typical expedient in philosophy. As if we were talking about shades of meaning and all that were in question were to find words to hit on the correct nuance. That is in question in philosophy only where we have to give a psychologically exact account of the temptation to use a particular kind of expression. What we 'are tempted to say' in such a case is, of course, not philosophy; but it is its raw material. Thus, for example, what a mathematician is inclined to say about the objectivity and reality of mathematical facts, is not a philosophy of mathematics, but something for philosophical *treatment*.

255. The philosopher's treatment of a question is like the treatment of an illness.

256. Now, what about the language which describes my inner experiences and which only I myself can understand? *How* do I use words to stand for my sensations?—As we ordinarily do? Then are my words for sensations tied up with my natural expressions of sensation? In that case my language is not a 'private' one. Someone else might understand it as well as I.—But suppose I didn't have any natural expression for the sensation, but only had the sensation? And now I simply *associate* names with sensations and use these names in descriptions.—

257. "What would it be like if human beings shewed no outward signs of pain (did not groan, grimace, etc.)? Then it would be impossible to teach a child the use of the word 'tooth-ache'."—Well, let's assume the child is a genius and itself invents a name for the sensation!—But then, of course, he couldn't make himself understood when he used the word.—So does he understand the name, without being able to explain its meaning to anyone?—But what does it mean to say that he has 'named his pain'?—How has he done this naming of pain? And whatever he did, what was its purpose?—When one says "He gave a name to his sensation" one forgets that a great deal of stage-setting in the language is presupposed if the mere act of naming is to make sense. And when we speak of someone's having given a name to pain, what is presupposed is the existence of the grammar of the word "pain"; it shews the post where the new word is stationed.

258. Let us imagine the following case. I want to keep a diary about the recurrence of a certain sensation. To this end I associate it with the sign "S" and write this sign in a calendar for every day on which I have the sensation.—I will remark first of all that a definition of the sign cannot be formulated.—But still I can give myself a kind of ostensive definition.—How? Can I point to the sensation? Not in the ordinary sense. But I speak, or write the sign down, and at the same time I concentrate my attention on the sensation—and so, as it were, point to it inwardly.—But what is this ceremony for? for that is all it seems to be! A definition surely serves to establish the meaning of a sign.—Well, that is done precisely by the concentrating of my attention; for in this way I impress on myself the connexion between the sign and the sensation.—But "I impress it on myself" can only mean: this process brings it about that I remember the connexion *right* in the future. But in the present case I have no criterion of correctness. One would like to say: whatever is going to seem right to me is right. And that only means that here we can't talk about 'right'.

259. Are the rules of the private language *impressions* of rules?—The balance on which impressions are weighed is not the *impression* of a balance.

260. "Well, I *believe* that this is the sensation S again."—Perhaps you *believe* that you believe it!

Then did the man who made the entry in the calendar make a note

of *nothing whatever*?—Don't consider it a matter of course that a person is making a note of something when he makes a mark—say in a calendar. For a note has a function, and this "S" so far has none.

(One can talk to oneself.—If a person speaks when no one else is present, does that mean he is speaking to himself?)

261. What reason have we for calling "S" the sign for a *sensation*? For "sensation" is a word of our common language, not of one intelligible to me alone. So the use of this word stands in need of a justification which everybody understands.—And it would not help either to say that it need not be a *sensation*; that when he writes "S", he has *something*—and that is all that can be said. "Has" and "something" also belong to our common language.—So in the end when one is doing philosophy one gets to the point where one would like just to emit an inarticulate sound.—But such a sound is an expression only as it occurs in a particular language-game, which should now be described.

262. It might be said: if you have given yourself a private definition of a word, then you must inwardly *undertake* to use the word in such-and-such a way. And how do you undertake that? Is it to be assumed that you invent the technique of using the word; or that you found it ready-made?

263. "But I can (inwardly) undertake to call THIS 'pain' in the future."—"But is it certain that you have undertaken it? Are you sure that it was enough for this purpose to concentrate your attention on your feeling?"—A queer question.—

264. "Once you know *what* the word stands for, you understand it, you know its whole use."

265. Let us imagine a table (something like a dictionary) that exists only in our imagination. A dictionary can be used to justify the translation of a word X by a word Y. But are we also to call it a justification if such a table is to be looked up only in the imagination?—"Well, yes; then it is a subjective justification."—But justification consists in appealing to something independent.—"But surely I can appeal from one memory to another. For example, I don't know if I have remembered the time of departure of a train right and to check it I call to mind how a page of the time-table looked. Isn't it the same here?"—No; for this process has got to produce a memory which is actually *correct*. If the mental image of the time-table could not itself be *tested* for correctness, how could it confirm the correctness of the first memory? (As if someone were to buy several copies of the morning paper to assure himself that what it said was true.)

Looking up a table in the imagination is no more looking up a table than the image of the result of an imagined experiment is the result of an experiment.

266. I can look at the clock to see what time it is: but I can also look at the dial of a clock in order to *guess* what time it is; or for the same purpose move the hand of a clock till its position strikes me as right. So the look of a clock may serve to determine the time in more than one way. (Looking at the clock in imagination.)

267. Suppose I wanted to justify the choice of dimensions for a bridge which I imagine to be building, by making loading tests on the material of the bridge in my imagination. This would, of course, be to imagine what is called justifying the choice of dimensions for a bridge. But should we also call it justifying an imagined choice of dimensions?

268. Why can't my right hand give my left hand money?—My right hand can put it into my left hand. My right hand can write a deed of gift and my left hand a receipt.—But the further practical consequences would not be those of a gift. When the left hand has taken the money from the right, etc., we shall ask: "Well, and what of it?" And the same could be asked if a person had given himself a private definition of a word; I mean, if he has said the word to himself and at the same time has directed his attention to a sensation.

269. Let us remember that there are certain criteria in a man's behaviour for the fact that he does not understand a word: that it means nothing to him, that he can do nothing with it. And criteria for his 'thinking he understands', attaching some meaning to the word, but not the right one. And, lastly, criteria for his understanding the word right. In the second case one might speak of a subjective understanding. And sounds which no one else understands but which I '*appear to understand*' might be called a "private language".

270. Let us now imagine a use for the entry of the sign "S" in my diary. I discover that whenever I have a particular sensation a manometer shews that my blood-pressure rises. So I shall be able to say that my blood-pressure is rising without using any apparatus. This is a useful result. And now it seems quite indifferent whether I have recognized the sensation *right* or not. Let us suppose I regularly identify it wrong, it does not matter in the least. And that alone shews that the hypothesis that I make a mistake is mere show. (We as it were turned a knob which looked as if it could be used to turn on some part of the machine; but it was a mere ornament, not connected with the mechanism at all.)

And what is our reason for calling "S" the name of a sensation here? Perhaps the kind of way this sign is employed in this language-game.—And why a "particular sensation," that is, the same one every time? Well, aren't we supposing that we write "S" every time?

271. "Imagine a person whose memory could not retain *what* the word 'pain' meant—so that he constantly called different things by that name—but nevertheless used the word in a way fitting in with the usual symptoms and presuppositions of pain"—in short he uses it as we all do. Here I should like to say: a wheel that can be turned though nothing else moves with it, is not part of the mechanism.

293. If I say of myself that it is only from my own case that I know what the word "pain" means—must I not say the same of other people too? And how can I generalize the *one* case so irresponsibly?

Now someone tells me that *he* knows what pain is only from his own case!—Suppose everyone had a box with something in it: we call it a "beetle". No one can look into anyone else's box, and everyone says he knows what a beetle is only by looking at *his* beetle.—Here it would be quite possible for everyone to have something different in his box. One might even imagine such a thing constantly changing.—But suppose the word "beetle" had a use in these people's language?—If so it would not be used as the name of a thing. The thing in the box has no place in the language-game at all; not even as a *something*: for the box might even be empty.—No, one can 'divide through' by the thing in the box; it cancels out, whatever it is.

That is to say: if we construe the grammar of the expression of sensation on the model of 'object and designation' the object drops out of consideration as irrelevant.

295. "I know . . . only from my *own* case"—what kind of proposition is this meant to be at all? An experiential one? No.—A grammatical one?

Suppose everyone does say about himself that he knows what pain is only from his own pain.—Not that people really say that, or are even prepared to say it. But *if* everybody said it—it might be a kind of exclamation. And even if it gives no information, still it is a picture, and why should we not want to call up such a picture? Imagine an allegorical painting take the place of those words.

When we look into ourselves as we do philosophy, we often get to see just such a picture. A full-blown pictorial representation of our grammar. Not facts; but as it were illustrated turns of speech.

296. "Yes, but there is *something* there all the same accompanying my cry of pain. And it is on account of that that I utter it. And this something is what is important—and frightful."—Only whom are we informing of this? And on what occasion?

297. Of course, if water boils in a pot, steam comes out of the pot and also pictured steam comes out of the pictured pot. But what if one insisted on saying that there must also be something boiling in the picture of the pot?

298. The very fact that we should so much like to say: "*This* is the important thing"—while we point privately to the sensation—is enough to shew how much we are inclined to say something which gives no information.

303. "I can only *believe* that someone else is in pain, but I *know* it if I am."—Yes: one can make the decision to say "I believe he is in pain" instead of "He is in pain". But that is all.—What looks like an explanation here, or like a statement about a mental process, is in truth an exchange of one expression for another which, while we are doing philosophy, seems the more appropriate one.

Just try—in a real case—to doubt someone else's fear or pain.

304. "But you will surely admit that there is a difference between pain-behaviour accompanied by pain and pain-behaviour without any pain?"—Admit it? What greater difference could there be?—"And yet you again and again reach the conclusion that the sensation itself is a *nothing*."—Not at all. It is not a *something*, but not a *nothing* either! The conclusion was only that a nothing would serve just as well as a something about which nothing could be said. We have only rejected the grammar which tries to force itself on us here.

The paradox disappears only if we make a radical break with the idea that language always functions in one way, always serves the same purpose: to convey thoughts—which may be about houses, pains, good and evil, or anything else you please.

305. "But you surely cannot deny that, for example, in remembering, an inner process takes place."—What gives the impression that we want to deny anything? When one says "Still, an inner process does take place here"—one wants to go on: "After all, you *see* it." And it is this inner process that one means by the word "remembering".—The impression that we wanted to deny something arises from our setting our faces against the picture of the 'inner process'. What we deny is that the picture of the inner process gives us the correct idea of the use of the word "to remember". We say that this picture with its ramifications stands in the way of our seeing the use of the word as it is.

307. "Are you not really a behaviourist in disguise? Aren't you at bottom really saying that everything except human behaviour is a fiction?"—If I do speak of a fiction, then it is of a *grammatical* fiction.

308. How does the philosophical problem about mental processes and states and about behaviourism arise?—The first step is the one that altogether escapes notice. We talk of processes and states and leave their nature undecided. Sometime perhaps we shall know more about them—we think. But that is just what commits us to a particular way of looking at the matter. For we have a definite concept of what it means to learn to know a process better. (The decisive movement in the conjuring trick has been made, and it was the very one that we thought quite innocent.)—And now the analogy which was to make us understand our thoughts falls to pieces. So we have to deny the yet uncomprehended process in the yet unexplored medium. And now it looks as if we had denied mental processes. And naturally we don't want to deny them.

367. The mental picture is the picture which is described when someone describes what he imagines.

370. One ought to ask, not what images are or what happens when one imagines anything, but how the word "imagination" is used. But that does not mean that I want to talk only about words. For the question as to the nature of the imagination is as much about the word "imagination" as my question is. And I am only saying that this question is not to be decided—neither for the person who does the imagining, nor for anyone else—by pointing; nor yet by a description of any process. The first question also asks for a word to be explained; but it makes us expect a wrong kind of answer.

376. When I say the ABC to myself, what is the criterion of my doing the same as someone else who silently repeats it to himself? It might be found that the same thing took place in my larynx and in his. (And similarly when we both think of the same thing, wish the same, and so on.) But then did we learn the use of the words: "to

say such-and-such to oneself" by someone's pointing to a process in the larynx or the brain? Is it not also perfectly possible that my image of the sound *a* and his correspond to different physiological processes? The question is: *How do we compare images?*

377. Perhaps a logician will think: The same is the same—how identity is established is a psychological question. (High is high—it is a matter of psychology that one sometimes *sees*, and sometimes *bears* it.)

What is the criterion for the sameness of two images?—What is the criterion for the redness of an image? For me, when it is someone else's image: what he says and does. For myself, when it is my image: nothing. And what goes for "red" also goes for "same".

378. "Before I judge that two images which I have are the same, I must recognize them as the same." And when that has happened, how am I to know that the word "same" describes what I recognize? Only if I can express my recognition in some other way, and if it is possible for someone else to teach me that "same" is the correct word here.

For if I need a justification for using a word, it must also be one for someone else.

379. First I am aware of it as *this*; and then I remember what it is called.—Consider: in what cases is it right to say this?

380. How do I recognize that this is red?—"I see that it is *this*; and then I know that that is what this is called." This?—What?! What kind of answer to this question makes sense?

(You keep on steering towards the idea of the private ostensive definition.)

I could not apply any rules to a *private* transition from what is seen to words. Here the rules really would hang in the air; for the institution of their use is lacking.

381. How do I know that this colour is red?—It would be an answer to say: "I have learnt English".

382. At these words I form this image. How can I *justify* this? Has anyone shewn me the image of the colour blue and told me that *this* is the image of blue?

What is the meaning of the words: "*This* image"? How does one point to an image? How does one point twice to the same image?

422. What am I believing in when I believe that men have souls? What am I believing in, when I believe that this substance contains two carbon rings? In both cases there is a picture in the foreground, but the sense lies far in the background; that is, the application of the picture is not easy to survey.

423. *Certainly* all these things happen in you.—And now, all I ask is to understand the expression we use.—The picture is there. And I am not disputing its validity in any particular case.—Only I also want to understand the application of the picture.

424. The picture is *there*; and I do not dispute its *correctness*. But *what* is its application? Think of the picture of blindness as a darkness in the soul or in the head of the blind man.

425. In numberless cases we exert ourselves to find a picture and once it is found the application as it were comes about of itself. In

this case we already have a picture which forces itself on us at every turn,—but does not help us out of the difficulty, which only begins here.

If I ask, for example: “How am I to imagine *this* mechanism going into *this* box?”—perhaps a drawing reduced in scale may serve to answer me. Then I can be told: “You see, it goes in like *this*”; or perhaps even: “Why are you surprised? See how it goes *here*; it is the same there”. Of course the latter does not explain anything more: it simply invites me to apply the picture I am given.

426. A picture is conjured up which seems to fix the sense *unambiguously*. The actual use, compared with that suggested by the picture, seems like something muddled. Here again we get the same thing as in set theory: the form of expression we use seems to have been designed for a god, who knows what we cannot know; he sees the whole of each of those infinite series and he sees into human consciousness. For us, of course, these forms of expression are like pontificals which we may put on, but cannot do much with, since we lack the effective power that would give these vestments meaning and purpose.

In the actual use of expressions we make detours, we go by side-roads. We see the straight highway before us, but of course we cannot use it, because it is permanently closed.

People who on waking tell us certain incidents (that they have been in such-and-such places, etc.). Then we teach them the expression “I dreamt”, which precedes the narrative. Afterwards I sometimes ask them “did you dream anything last night?” and am answered yes or no, sometimes with an account of a dream, sometimes not. That is the language-game. (I have assumed here that I do not dream myself. But then, nor do I ever have the feeling of an invisible presence; other people do, and I can question them about their experiences.)

Now must I make some assumption about whether people are deceived by their memories or not; whether they really had these images while they slept, or whether it merely seems so to them on waking? And what meaning has this question?—And what interest? Do we ever ask ourselves this when someone is telling us his dream? And if not—is it because we are sure his memory won't have deceived him? (And suppose it were a man with a quite specially bad memory?—)

Does this mean that it is nonsense ever to raise the question whether dreams really take place during sleep, or are a memory phenomenon of the awakened? It will turn on the use of the question.

“The mind seems able to give a word meaning”—isn't this as if I were to say “The carbon atoms in benzene seem to lie at the corners of a hexagon”? But this is not something that seems to be so; it is a picture.

The evolution of the higher animals and of man, and the awakening of consciousness at a particular level. The picture is something like this: Though the ether is filled with vibrations the world is dark. But one day man opens his seeing eye, and there is light.

What this language primarily describes is a picture. What is to be done with the picture, how it is to be used, is still obscure. Quite clearly, however, it must be explored if we want to understand the sense of what we are saying. But the picture seems to spare us this work: it already points to a particular use. This is how it takes us in.