## Chapter 10 Pragmatism and the Form of Thought



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Abstract In this chapter, Grace Andrus de Laguna and Theodore de Laguna criti-

cally examine the pragmatist theory of knowledge and offer their own alternative to
 it.

We propose to bring together in this chapter certain considerations bearing upon the 4 contempt for formal logic which prevails among pragmatists. It appears to us, and 5 we shall try to establish the contention, that this contempt and the hostility which it 6 has inspired have no reasonable excuse; that they have arisen from an unwarranted 7 exaggeration of the legitimate consequences of the pragmatist theory of truth. The 8 general position which we are to criticise may be briefly indicated as follows. 9 Consciousness is a function of the animal organism which has developed by reason 10 of its utility in various types of situations. The intelligent study of consciousness will 11 not attempt to separate it from the conditions under which its present characteristics 12 have been acquired and to which its various structural relations owe all their functional 13 importance. To make such a separation is to be committed to a formalism as shallow as 14 that of an engineer who should analyze and describe a complicated machine without 15 reference to the work for which it was designed and by which the proportions and 16 interconnections of all its parts were determined. 17

If consciousness is not to be studied as a thing-in-itself, still less is logical thought.
 For the latter is but an episode in the life of feeling. It has its rise in the unpleasant
 strain occasioned by the failure of an habitual mode of behavior; and it has its

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normal conclusion in the satisfaction attendant upon successful readjustment. All real thought is essentially practical, in the sense that it is devoted to the solving of problems arising out of the exigencies of conduct, and that when a solution is reached behavior is modified accordingly. Thought is therefore not to be studied to greatest advantage in those of its manifestations where it is as nearly as possible idle—where needs are fictitious, interest lax, effort subliminal, and the entire operation is scarcely more than the repetition of a form of words.

When thought is seen at work, the meaning of logical validity is clear. Valid thought is efficient thought, thought that accomplishes its function of controlling conduct in accordance with the needs of the organism. The notion, that apart from its proper function thought may possess a peculiar intrinsic, or formal, validity, is delusive. A form of thought, as distinguished from its content, there is none.

Hence the futility of formal logic. It is the physiology of a corpse—of thought which is without function and without life. Even the Hegelian dialectic is better; for in spite of willful abstraction one cannot think the categories without surreptitiously bringing in something of their concrete significance, and it is to this that whatever insight is therein displayed is due. But formal logic, the science of every thought and none, is at the limit of possible insignificance. Any access of sense is rigorously cut off.

This judgment of the supposed science of thought is strongly confirmed by an 40 examination of the specific content which it has accumulated. We find a body of 41 formulae, which are fitly expressed, not in words with their wide and shifting asso-42 ciations, but in bare and simple algebraic symbols. Do these formulae constitute a 43 description of any actual thought? Who knows? The logician, as logician, does not 44 care—except that he would like to think that his logic itself is logical, i.e., conforms 45 to its own canons; but this he knows he cannot show. But the intention of the formulae 46 is not to describe actual thought (which may be logical or illogical) but a certain type 47 of ideal thought. Whether any such thought has occurred or will ever occur, is a 48 secondary consideration. 49

The most striking characteristic of the ideal thought is the absolute fixity of its 50 terms. A is A, and A is not not-A, are classic expressions of this feature. The most 51 striking characteristic of actual human thought, at least to the observation of the 52 trained student of human nature, is the more or less limited fixity and stability of 53 its terms. They are products of an evolution which still proceeds. And though we 54 cannot in many instances distinguish, or even imagine, the particular changes that 55 may have taken place within the period of human history, and must even grant that 56 certain concepts have, in all probability, remained substantially unchanged for ages, 57 we cannot avoid recognizing at least the possibility of their future modification. In 58 no case have we sufficient warrant to guarantee the permanent fixity of the existing 59 forms; and, in fact, it is only within the domain of the mathematical sciences that 60 such fixity could be claimed with any show of reasonableness. Of the great mass of 61 our concepts we can scarcely doubt that they are changing now more rapidly than 62 ever before. 63

<sup>64</sup> But where concepts are undergoing an evolution, a precise clearness cannot be <sup>65</sup> expected. Where distinctions are hardening and melting away again and shifting generally, it is impossible that dividing lines should be shadowless and unbroken. Bacon's aphorism, that ultimately satisfactory definitions belong, not to the initial stages, but to the consummation of the sciences, is significant to us as the description of a never to be attained ideal. The conviction of clearness is common enough. But we have well learned that there is no more suspicious indication of shallowness of mind. The nearer any concrete reasoning approaches the mathematical type, the readier we are to condemn it as doctrinaire.

The weakness of the syllogism, that supposed universal form of thought, is now 73 evident. The possibility of drawing a conclusion depends upon the exact identity of the 74 middle term in the two premises. But who shall vouch for this? Not to the satisfaction 75 of common sense alone, but in accordance with the canons of the syllogism itself? 76 For by these canons the least variation constitutes a *quaternio*, and no valid inference 77 is then possible. In fact, so far from being an absolutely certain mode of inference, the 78 syllogism is dangerously deceptive, just because it effectually conceals the evidences 79 of its weakness. The syllogistic axiom, the *dictum de omni et nullo*, pretending to 80 represent the essential form of thought in abstraction from all particularity of content, 81 is, in reality, without application to any content whatsoever; for its terms require just 82 that fixity and clearness which the thoughts of men can never claim. 83

The pragmatist theory, that all meanings refer ultimately to correlations of stimulus and response, can be accepted only with certain reservations, which may be summed up in the statement, that such reference is never direct and never univocal. Let us consider the latter qualification first.

A concept is never univocal in its reference to a mode of conduct; that is to say, 88 its meaning is never limited to the correlation of a certain type of stimulus with a 89 certain response. On the contrary, its import invariably embraces a variety of actions ۵n under different circumstances. To take a simple example, the concept of the straight 91 line means that when we wish to look at one object we must take care that a second 92 does not stand in the way; a circumstance which, when it occurs, may be obviated 93 by moving either of the objects, by standing aside, or by changing the attitude of the 94 body. It also means that in order to hit an object with a missile we must throw it in its 95 direction; that in order to reach a destination with the greatest promptitude, we must 96 travel directly toward it; that in order that a rope may not sag it must be stretched 97 taut; and so on, practically ad infinitum. So also an apple means to us the eating of 98 it, if it be sound and sweet and our appetite be so inclined; the paring and coring 99 of it, if need be; the removal of a worm or bruised spot perhaps. And the case is 100 not different with such concepts as joy and sorrow, pity and scorn. We may add that 101 even when the particular situation is given, the concept never determines a specific 102 appropriate adjustment. The immediate one-to-one correlation does not fall within 103 the function of thought. That remains the function of older and simpler agencies. Our 104 thoughts direct our conduct, and it is in this service that their meaning ultimately 105 consists; but every concept means both more and less than any particular application 106 of it contains. 107

To this we have added that the reference of a concept to a mode of conduct is never direct. The concept never directly bridges the gap between stimulus and response. On the contrary, thought is a long-circuiting of the connection, and its whole character depends upon its indirectness, its involution, if we may use the term.
Though concepts, apart from the conduct which they prompt, mean nothing, yet their
meaning is never analyzable except into other concepts, indirect like the first in their
reference to conduct.

But does not this really do away with the reference altogether? It certainly would, 115 if concepts were ever (in the rationalist's sense) perfectly clear, if their implications 116 ever became perfectly explicit. But as thought always arises as a problem, so it always 117 remains more or less problematic, for that is what lack of clearness amounts to. Every 118 concept involves an indefinite number of problems; and these cannot be stated except 119 in terms which themselves in turn involve indefinite series of problems. Nowhere is 120 there an absolute given, a self-sufficient first premise. From this, as well as from the 121 indirect and equivocal nature of the reference of thought to conduct, it follows that 122 the confirmation or invalidation of a concept by the result of the conduct which it 123 serves to guide can itself be no more than tentative. But this does not mean that it is 124 unreal or unessential to the nature or development of thought. 125

These considerations, however, have a decided bearing upon the pragmatist 126 contention, that apart from its reference to conduct thought has no form. This is natu-127 rally understood to imply that the nature of thought may be exhaustively described 128 in the statement of its relation to conduct. Now it is very probable that the statement 129 of the relation between two terms may be indefinitely developed, so as to include any 130 assignable attribute of the terms in question. But at any stage of scientific progress 131 all this remains an abstract possibility; and the degree in which the statement of a 132 relation is actually comprehensive of the otherwise known content of its terms is 133 capable of indefinite variation. And with respect to thought and conduct it must be 134 said that the very indirectness and equivocality of the reference of the former to the 135 latter gives thought a character of its own, which is as independent of aught beyond 136 as can well be imagined. The more meaning is read into this particular doctrine, the 137 less truth there is in it. Apart from the reference of thought to conduct, that is to say, 138 in the limitless interrelations of concepts with each other, thought has as distinctive 139 a form as any abstractly considered entity whatsoever. 140

What, then, shall be said of logical validity? Is it true that this does not attach 141 to thought considered in abstraction from the control of conduct-that its only test 142 is the practical one, the cessation of thought itself when its task of readjustment is 143 done? For the reasons just given we cannot assent to this. The very indirectness of the 144 reference of concepts to modes of reaction implies that the interrelations of concepts 145 which mediate the ultimate practical reference must have a character of rightness or 146 wrongness in themselves. To say that without the ulterior test of workability all other 147 rightness or wrongness would be fictitious is to interpose an idle objection. For the 148 point precisely is that without a characteristic organization of the content of thought 149 the practical significance of thought would itself disappear. 150

The fact is that according to the common pragmatist view a chain of reasoning would be altogether impossible. For in such a chain each link must be valid if the whole is to have any strength. But the test of practice obviously cannot apply to the separate links; it can only indicate in a general way the profitableness of the whole procedure. If the test fails, that alone does not determine where the difficulty lies. It is, indeed, implied, that each valid link, if separately tested—or if tested in a variety
of connections, such as would throw its own strength or weakness into relief—
would lead to satisfactory results. But in the chain of argument no such procedure
is ordinarily contemplated. On the contrary, each conclusion reached in the course
of the argument is regarded as proceeding immediately from its premises; and it is
upon that supposition that the reasoner advances to the later conclusions.

But it is not only the chain of reasoning that cannot be accounted for on the pragma-162 tist basis. The simplest conceivable argument, in which premise and conclusion are 163 distinguished, becomes equally inexplicable; and this can be shown from an example 164 which is in constant reference by the pragmatists themselves. Let us suppose that 165 the truth of a general hypothesis has been tested in the case of a particular instance, 166 and has been found in want of correction. Here, on the basis of the hypothesis under 167 consideration, something is inferred as to the results of acting in a certain way under 168 certain circumstances; and this conclusion, as compared with the observed results, 169 is found to be false. What now constitutes the validity of the inference which led 170 to the admittedly false conclusion? The whole procedure depends upon this point, 171 and yet just this point is submitted to no practical test. To be sure it may be said 172 that similar inferences have in the past been found to be correct. But, in the first 173 place, it is probably not on the basis of such a comparison that the untrue conclusion 174 is accepted as correctly derived. That is seldom a matter for reflection. And, in the 175 second place, we must observe that the pragmatist theory fails equally to explain 176 the correctness of an inference from true premises. In a word, the theory does not 177 distinguish between the correctness of an inference and the truth of its premises, and 178 hence virtually eliminates the former altogether. 179

So far as we are aware, this result can only be avoided by an interpretation of pragmatism in which its opposition to formal logic is given up. It is pointed out that the acceptance of a conclusion as satisfactorily derived, with consequent passing on the drawing of further inferences is itself a piece of conduct in which earlier thought finds its extinction; and that the meaning which we ascribe to the term 'validity' is exhausted in its reference to such conduct. To this we have no objection; but we think it necessary to call attention to several important features of the argument.

In the first place, the conduct just mentioned is not to be confused with the conduct 187 to which implied reference is made in the conclusion. Suppose, for example, that 188 it has been demonstrated by the methods of elementary geometry, that a triangle 189 is determined by the length of its three sides. This is a most useful principle in 190 many lines of activity, very conspicuously in building. It means, for one thing, that a 191 triangular structure made of stiff material is non-collapsible, even though its corners 192 be hinged, and, consequently, that such a structure has no need of further bracing. The 193 rectangle is known not to have this property; and accordingly a frame of that shape 194 is frequently given greater rigidity by constructing a triangle in one of its corners. 195 Now it is in its reference to such practical applications as this that the meaning of the 196 proposition consists; and its truth is confirmed by the satisfactory issue of the conduct 197 thus prompted. The point to which special attention must be called, is that, according 198 to the interpretation of the pragmatist doctrine which we are now considering, this is 199 not the conduct in reference to which the validity of the demonstration itself has its 200

meaning. The meaning of 'validity' is found in *the characteristic mental procedure involved in accepting the conclusion as warranted by the premises*, and which would be generically the same, whether the premises (and accordingly the conclusion) were regarded as true, as probable, as possible, or even as contrary to fact. Here, as elsewhere, of course, no single definite act can be pointed out as unequivocally referred to by the concept; but that fact offers no greater difficulty here than in the case of physical behavior.

In the second place, it is implied that apart from the interest attaching to the 208 environmental situation which indirectly prompted the whole argument, there is 209 likewise a specific interest attaching to the logical situation as such. This situation 210 is formulated in a problem, the solution of which is contained in the acceptance 211 of the conclusion as correctly derived. That such a specific interest exists is very 212 commonly believed, and is by no means an untenable hypothesis. Logical validity is 213 thus recognized as a kind of value depending upon a specific sentiment and as in so 214 far comparable to esthetic and moral values. 215

In the third place, the special point which we have had in view throughout this 216 digression is now readily established,-namely that the opposition of pragmatism to 217 merely formal logic has no solid basis. The familiar pragmatist doctrine, that thought 218 has no validity apart from its function in controlling conduct, seems like a subterfuge 219 when we reflect that the conduct to which logical validity refers is logical procedure 220 itself. It is no subterfuge, however, but only the result of an afterthought which 221 reestablishes what at first sight seemed done away with. And after all, though the 222 negative result proved deceptive, the positive results which may be safely enumerated 223 are not small. It is no small gain to have learned, that in so far as thought has a 224 distinctive form, it must be viewed as purposive behavior animated by a distinctive 225 human interest. It surely is not a less welcome, because a somewhat unexpected, 226 outcome of the pragmatist philosophy, that theoretical values as such are restored to 227 their ancient position of dignified independence of more narrowly 'practical' needs. 228

Let it be noted that in asserting against the pragmatist the indispensability of the 229 conception of a form of thought as such, we do not commit ourselves to any dogma 230 as to the universality or permanence of this form. We need assert no greater claims 231 for the form of thought (however it be expressed) than we are ready to assert for the 232 fundamental laws of mechanics. In either case, if an absolute exist we can never know 233 it; and any ascription of qualities to the unknowable is sheer play of fancy. The form 234 of thought as we know it, though fairly clear in certain respects, is sadly obscure in 235 some others. Our conceptions of it have undergone some very decided modifications 236 in the past, and no doubt will be profoundly modified in the future. The assertion, 237 then, that thought has a universal form, could we but know it, is without scientific 238 significance. And to assert absolute universality for any statement of its form which 239 we can make, is to lapse into indefensible rationalism. 240

Nor, for similar reasons, are we committed to any dogma with regard to the relation of the form of thought to its content. We must, however, frankly admit one necessary assumption,—namely, that hypothetically to recognize any definite form of thought at all is hypothetically to recognize it as a universal under which various contents are subsumed without change in itself. But the self-contradiction—if such there be—is no greater than is involved in any general proposition whatsoever. For no proposition
can contain the confession of its own impermanence. And it is of no avail to object
that 'form,' as distinguished from 'content,' is a category of ignorance or of imperfect
knowledge; for so are all our other categories.

Herein, though we have departed from the letter of the pragmatist doctrine, we 250 believe we have remained true to its deeper spirit. Our criticism is, indeed, that it has 251 contained a vital inconsistency. In the theory of inference that inconsistency appears 252 as a denial of the reciprocality of determination, as exemplified in the relation of 253 premise and conclusion. Whereas rationalism had made the former prior in authority, 254 pragmatism has simply reversed the order of dependence and made the conclusion 255 prior to the premise. Thus, for pragmatism as for rationalism, the inference has 256 ultimately vanished altogether. 257

It is not necessary for us to examine at length the specific criticisms which the 258 pragmatist urges against the traditional schema of the form of thought, namely, the 259 syllogism. It is true that the formula of the syllogism does imply that the terms are 260 distinct and fixed in meaning, at least so far as to ensure the universality of the 261 major premise and to exclude a *quaternio terminorum*; and it is possible that this 262 condition is not satisfied in any real deduction. But the answer is, that deduction is 263 a thought-process in which ideas are regarded as if they were fixed and distinct; and 264 an ample justification of the process is the fact that ideas must be so regarded if their 265 specific obscurities and self-contradictions are ever to be exhibited and removed. It 266 is by working our ideas for all that they are worth, that their limitations are brought 267 to light. Is the syllogism a true account of the deductive process as it goes on in our 268 minds? We cannot say that; for, in the first place, it would claim for the doctrine 269 of the syllogism an absolute certitude which we are not disposed to claim for any 270 knowledge whatsoever; and, in the second place, we know in a general way that 271 obscurity and vacillation everywhere pervade our thought. But in a specific instance, 272 the syllogism may well enough describe our thought, so far as our perception of its 273 significance yet extends; and when that perception becomes deeper, we no longer 274 call the total process, as thus distinguished, deduction. And furthermore, at any stage 275 of progress, the syllogism is the form which the clearest of our thought appears to 276 take. In so far, the rationalist was undoubtedly right in his conception of deductive 277 certainty as the ideal of science. He did not see, however, that it is an ideal which 278 can only be progressively realized,—that its absolute realization would, indeed, be 279 the extinction of thought altogether. If there were any such assured knowledge as the 280 rationalist dreamed of-final, irreducible, modifiable only by accretion-his logic 281 would have been unanswerable. It is our sense of the universal process that for us 282 limits the truth of his account to a temporal cross-section of knowledge, regarded as 283 if it were eternal. 284

Very similar must be our comment upon the pragmatist's treatment of the conception of fundamental categories of thought. Despite its lack of finality the conception has a very considerable degree of usefulness. Kant is popularly believed to have been one of the most wanton of theorists, exceeded in this respect only by his romantic successors,—a self-centered recluse who unrestrainedly piled speculation upon speculation, with the slenderest basis of observed fact. The student of Kant knows that

this is not true,—that among all philosophers ancient and modern he is unsurpassed 201 both for the breadth of scientific observation which went to the forming of his views, 202 and for the rigid faithfulness with which he persisted in his observations and refused 293 to indulge in gratuitous hypothesis. To adopt a phrase of the nature-poets, never was 294 there a man who more invariably wrote "with his eye on the object." It is, indeed, 295 in consequence of impartial fidelity to matter-of-fact, that the volumes of his critical 206 philosophy are unusually full of naked paradox-short of formal contradiction, no 297 consideration could lead him utterly to exclude a well attested datum of experience. 298 To this general character of his thought, the doctrine of the categories assuredly 299 presents no exception. If we can no longer accept that doctrine in its historical form, 300 our dissent is due neither to faulty observation in the premises nor to fallacy in the 301 reasoning, but to a radical transformation in the whole body of logical theory in 302 which the conception of categories has its place. To the array of tolerably evident 303 facts which the Kantian doctrine represents a respectful interpretation must still be 304 given. 305

These facts may be briefly enumerated as follows. We are in possession of a 306 number of very general principles, to which we attribute a truth that is not conceived 307 as open to correction by any experience; inasmuch as all the particulars of experi-308 ence are interpreted in accordance with these principles, and any observation which 309 apparently contradicted them would rather itself be denied than cause a modifica-310 tion in these principles. These principles are obviously synthetic, and thus open 311 to formal questioning, and no demonstration of their truth can be given; but they 312 constitute the most comprehensive organization of our experience, and it is in this 313 function that their validity consists. The reality of phenomena in our experience has 314 no further assignable meaning than their conformity to these most general conditions 315 of experience. 316

How these facts were interpreted by Kant need not now concern us, except to 317 note that in that interpretation the possibility of an evolutionary explanation of them 318 was definitely excluded. Herein Kant remained a rationalist. Thought, for him, must 319 operate with concepts, to which the laws of contradiction and of the excluded middle 320 applied absolutely and without reservation. That, measured by such a standard, the 321 fundamental categories of the understanding should be false-that the unity of expe-322 rience which 'they mediated should be imperfect—was not for him a real possi-323 bility. His problem did not include it. Thus the scepticism which he refuted was one 324 which left the analytical judgment unquestioned. It was only the fact of synthesis 325 that suggested doubt, and this only in so far as universality was claimed for it. The 326 very enterprise with which the Transcendental Analytic sets out-the formation of a 327 definitive and complete list of categories, as if that were a thinkable performance-is 328 sufficient to indicate his attitude in the matter. And the completeness of the list in 329 which the metaphysical deduction issues is an important premise in the later argu-330 ment. It is upon this that the indispensability, and hence the unquestionable validity, 331 of the categories depends. These and no others must perform the function which they 332 perform-because there are no others. 333

In place of this persistent dogmatism, we would rather observe that when a succession of concepts appears, each of which has arisen as a modification of the preceding

complex, a certain relative stability belongs to the earlier members. Not as if temporal 336 priority gave a logical priority in the ordinary sense of the term; for the later does not 337 come as a mere accretion to the earlier, but as a modification of it which goes to the 338 formation of a more complex unity. But the earlier has nevertheless this preference: 339 that, as the further revision of the complex becomes necessary, this takes place, as far 340 as possible, in the later elements; and only such portion of the correction as cannot be 341 made here is passed back farther and farther, until the disturbing conditions are satis-342 fied. This, indeed, appears to be a general characteristic of all evolution, and forms 343 a part, at least, of what is commonly alluded to as the 'continuity' of the process. It 344 may, therefore, naturally be expected, that among our concepts there are certain ones 345 which are not observably affected in the course of ordinary experience, and thus stand 346 to the whole of our thought as nearly as possible in the relation of an a priori ground. 347 Such we may well enough designate the 'categories' of our thought; but they will 348 obviously lack certain of the important characteristics that have traditionally been 349 associated with this term. They are not forms of thought as distinguished from its 350 content; they are not final or unmodifiable; we cannot affirm that they are true of all 351 possible experience. In short, they are to be distinguished by no hard and fast line 352 from the other concepts of the understanding. 353

What, then, is the practical use of the distinction? Simply this: that, when we 354 try to give an account of the concepts which appear to be fundamental in all our 355 thinking, we find that they form a quite closely articulated system—not so perfect, 356 doubtless, as the absolute idealist would have had us believe, but still a system, and 357 the most permanent factor in our thought. If we, then, regard our present knowledge 358 as a cross-section of an evolutionary process—a loose procedure, if judged by too 359 scrupulous a standard, for our present knowledge continues its development while 360 we inspect it; but none the less a necessary procedure—the system of categories 361 stands out as an a priori element in our thinking, a pure form of thought, logically 362 prior to all the particularity of experience. That is to say, we find ourselves virtually 363 at the standpoint of the critical philosophy—with this exception, indeed, that we do 364 not regard it as an ultimate standpoint, and hence no longer expect a self-sufficient 365 completeness in the view of reality which it affords. In the sense of this exception, 366 the critical standpoint has, we believe, been transcended; but we must still return to 367 it for observations of the utmost scientific importance. 368

It is in this light that we must regard the logical researches of Kant's successors, 369 and in particular those of Hegel. We have already expressed our reasons for the 370 opinion, that, in spite of important divergences, Hegel's epistemology is still fairly 371 to be classed as a form of rationalism. Although more to him than to any other 372 man is due the elaboration of the logical conceptions which appertain to general 373 evolutionary theory; and though he applied these conceptions with wonderful insight 374 to the study of the development of thought; yet that development, as he conceived 375 it, was a movement within a system, not of a system, for the system as such was 376 completely determined by its absolute end. For this reason he could not dispense 377 with the essentially rationalistic conception of pure—that is to say, a priori—thought, 378 and whatever may be conceived to have been the psychological history of his logic, 379 it stands in its full rounded completeness as a schema to which nature and spirit 380

universally conform. But, when the extravagances to which his absolutism led him
are, as well as may be set aside, and the *Science of Logic* is viewed as a provisional
solution of a problem, which, from the terms in which it is stated, can never be
adequately solved, it becomes a treasurehouse of inestimable wisdom, which the
pragmatist, of all men, cannot afford to despise.