

WILLIAM JAMES

THE WILL TO BELIEVE,
AND OTHER ESSAYS IN
POPULAR PHILOSOPHY

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Essays in Popular Philosophy**

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PREFACE

At most of our American Colleges there are Clubs formed by the students devoted to particular branches of learning; and these clubs have the laudable custom of inviting once or twice a year some maturer scholar to address them, the occasion often being made a public one. I have from time to time accepted such invitations, and afterwards had my discourse printed in one or other of the Reviews. It has seemed to me that these addresses might now be worthy of collection in a volume, as they shed explanatory light upon each other, and taken together express a tolerably definite philosophic attitude in a very untechnical way.

Were I obliged to give a short name to the attitude in question, I should call it that of *radical empiricism*, in spite of the fact that such brief nicknames are nowhere more misleading than in philosophy. I say 'empiricism,' because it is contented to regard its most assured conclusions concerning matters of fact as hypotheses liable to modification in the course of future experience; and I say 'radical,' because it treats the doctrine of monism itself as an hypothesis, and, unlike so much of the half-way empiricism that is current under the name of positivism or agnosticism or scientific naturalism, it does not dogmatically affirm monism as something with which all experience has got to square. The difference between monism and pluralism is perhaps the most pregnant of all the differences in philosophy. *Primâ facie* the world is a pluralism; as we find it, its unity seems to be that of any collection; and our higher thinking consists chiefly of an effort to redeem it from that first crude form. Postulating more unity than the first experiences yield, we also discover more. But absolute unity, in spite of brilliant dashes in its direction, still remains undiscovered, still remains a *Grenzbegriff*. "Ever not quite" must be the rationalistic philosopher's last confession concerning it. After all that reason can do has been done, there still remains the opacity of the finite facts as merely given, with most of their peculiarities mutually unmediated and unexplained. To the very last, there are the various 'points of view' which the philosopher must distinguish in discussing the world; and what is inwardly clear from one point remains a bare externality and datum to the other. The negative, the alogical, is never wholly banished. Something—"call it fate, chance, freedom, spontaneity, the devil, what you will"—is still wrong and other and outside and unincluded, from *your* point of view, even though you be the greatest of philosophers. Something is always mere fact and *givenness*; and there may be in the whole universe no one point of view extant from which this would not be found to be the case. "Reason," as a gifted writer says, "is but one item in the mystery; and behind the proudest consciousness that ever reigned, reason and wonder blushed face to face. The inevitable stales, while doubt and hope are sisters. Not unfortunately the universe is wild,—game-flavored as a hawk's wing. Nature is miracle all; the same returns not save to bring the different. The slow round of the engraver's lathe gains but the breadth of a hair, but the difference is distributed back over the whole curve, never an instant true,—ever not quite."¹

This is pluralism, somewhat rhapsodically expressed. He who takes for his hypothesis the notion that it is the permanent form of the world is what I call a radical empiricist. For him the crudity of experience remains an eternal element thereof. There is no possible point of view from which the world can appear an absolutely single fact. Real possibilities, real indeterminations, real

¹ B. P. Blood: *The Flaw in Supremacy*: Published by the Author, Amsterdam, N. Y., 1893.

beginnings, real ends, real evil, real crises, catastrophes, and escapes, a real God, and a real moral life, just as common-sense conceives these things, may remain in empiricism as conceptions which that philosophy gives up the attempt either to 'overcome' or to reinterpret in monistic form.

Many of my professionally trained *confrères* will smile at the irrationalism of this view, and at the artlessness of my essays in point of technical form. But they should be taken as illustrations of the radically empiricist attitude rather than as argumentations for its validity. That admits meanwhile of being argued in as technical a shape as any one can desire, and possibly I may be spared to do later a share of that work. Meanwhile these essays seem to light up with a certain dramatic reality the attitude itself, and make it visible alongside of the higher and lower dogmatisms between which in the pages of philosophic history it has generally remained eclipsed from sight.

The first four essays are largely concerned with defending the legitimacy of religious faith. To some rationalizing readers such advocacy will seem a sad misuse of one's professional position. Mankind, they will say, is only too prone to follow faith unreasoningly, and needs no preaching nor encouragement in that direction. I quite agree that what mankind at large most lacks is criticism and caution, not faith. Its cardinal weakness is to let belief follow recklessly upon lively conception, especially when the conception has instinctive liking at its back. I admit, then, that were I addressing the Salvation Army or a miscellaneous popular crowd it would be a misuse of opportunity to preach the liberty of believing as I have in these pages preached it. What such audiences most need is that their faiths should be broken up and ventilated, that the northwest wind of science should get into them and blow their sickliness and barbarism away. But academic audiences, fed already on science, have a very different need. Paralysis of their native capacity for faith and timorous *abulia* in the religious field are their special forms of mental weakness, brought about by the notion, carefully instilled, that there is something called scientific evidence by waiting upon which they shall escape all danger of shipwreck in regard to truth. But there is really no scientific or other method by which men can steer safely between the opposite dangers of believing too little or of believing too much. To face such dangers is apparently our duty, and to hit the right channel between them is the measure of our wisdom as men. It does not follow, because recklessness may be a vice in soldiers, that courage ought never to be preached to them. What *should* be preached is courage weighted with responsibility,—such courage as the Nelsons and Washingtons never failed to show after they had taken everything into account that might tell against their success, and made every provision to minimize disaster in case they met defeat. I do not think that any one can accuse me of preaching reckless faith. I have preached the right of the individual to indulge his personal faith at his personal risk. I have discussed the kinds of risk; I have contended that none of us escape all of them; and I have only pleaded that it is better to face them open-eyed than to act as if we did not know them to be there.

After all, though, you will say, Why such an ado about a matter concerning which, however we may theoretically differ, we all practically agree? In this age of toleration, no scientist will ever try actively to interfere with our religious faith, provided we enjoy it quietly with our friends and do not make a public nuisance of it in the market-place. But it is just on this matter of the market-place that I think the utility of such essays as mine may turn. If religious hypotheses about the universe be in order at all, then the active faiths of individuals in them, freely expressing themselves in life, are the experimental tests by which they are verified, and the only means by which their truth or falsehood can be wrought out. The truest scientific hypothesis is that which, as we say, 'works' best; and it can be no otherwise with religious hypotheses. Religious history proves that one hypothesis after another has worked ill, has crumbled at contact with a widening knowledge of the world, and has lapsed from the minds of men. Some articles of faith, however, have maintained themselves through every vicissitude, and possess even more vitality to-day than ever before: it is for the 'science of religions' to tell us just which hypotheses these are. Meanwhile the freest competition of the various faiths with one another, and their openest application to life by their several champions, are the most favorable conditions under which the survival of the fittest can proceed. They ought therefore not to lie hid

each under its bushel, indulged-in quietly with friends. They ought to live in publicity, vying with each other; and it seems to me that (the régime of tolerance once granted, and a fair field shown) the scientist has nothing to fear for his own interests from the liveliest possible state of fermentation in the religious world of his time. Those faiths will best stand the test which adopt also his hypotheses, and make them integral elements of their own. He should welcome therefore every species of religious agitation and discussion, so long as he is willing to allow that some religious hypothesis *may* be true. Of course there are plenty of scientists who would deny that dogmatically, maintaining that science has already ruled all possible religious hypotheses out of court. Such scientists ought, I agree, to aim at imposing privacy on religious faiths, the public manifestation of which could only be a nuisance in their eyes. With all such scientists, as well as with their allies outside of science, my quarrel openly lies; and I hope that my book may do something to persuade the reader of their crudity, and range him on my side. Religious fermentation is always a symptom of the intellectual vigor of a society; and it is only when they forget that they are hypotheses and put on rationalistic and authoritative pretensions, that our faiths do harm. The most interesting and valuable things about a man are his ideals and over-beliefs. The same is true of nations and historic epochs; and the excesses of which the particular individuals and epochs are guilty are compensated in the total, and become profitable to mankind in the long run.

The essay 'On some Hegelisms' doubtless needs an apology for the superficiality with which it treats a serious subject. It was written as a squib, to be read in a college-seminary in Hegel's logic, several of whose members, mature men, were devout champions of the dialectical method. My blows therefore were aimed almost entirely at that. I reprint the paper here (albeit with some misgivings), partly because I believe the dialectical method to be wholly abominable when worked by concepts alone, and partly because the essay casts some positive light on the pluralist-empiricist point of view.

The paper on Psychical Research is added to the volume for convenience and utility. Attracted to this study some years ago by my love of sportsmanlike fair play in science, I have seen enough to convince me of its great importance, and I wish to gain for it what interest I can. The American Branch of the Society is in need of more support, and if my article draws some new associates thereto, it will have served its turn.

Apology is also needed for the repetition of the same passage in two essays (pp. 59-61 and 96-7, 100-1). My excuse is that one cannot always express the same thought in two ways that seem equally forcible, so one has to copy one's former words.

The Crillon-quotation on page 62 is due to Mr. W. M. Salter (who employed it in a similar manner in the 'Index' for August 24, 1882), and the dream-metaphor on p. 174 is a reminiscence from some novel of George Sand's—I forget which—read by me thirty years ago.

Finally, the revision of the essays has consisted almost entirely in excisions. Probably less than a page and a half in all of new matter has been added.

HARVARD UNIVERSITY,
CAMBRIDGE, MASSACHUSETTS,
December, 1896.

THE WILL TO BELIEVE.²

In the recently published *Life* by Leslie Stephen of his brother, Fitz-James, there is an account of a school to which the latter went when he was a boy. The teacher, a certain Mr. Guest, used to converse with his pupils in this wise: "Gurney, what is the difference between justification and sanctification?—Stephen, prove the omnipotence of God!" etc. In the midst of our Harvard freethinking and indifference we are prone to imagine that here at your good old orthodox College conversation continues to be somewhat upon this order; and to show you that we at Harvard have not lost all interest in these vital subjects, I have brought with me to-night something like a sermon on justification by faith to read to you,—I mean an essay in justification *of* faith, a defence of our right to adopt a believing attitude in religious matters, in spite of the fact that our merely logical intellect may not have been coerced. 'The Will to Believe,' accordingly, is the title of my paper.

I have long defended to my own students the lawfulness of voluntarily adopted faith; but as soon as they have got well imbued with the logical spirit, they have as a rule refused to admit my contention to be lawful philosophically, even though in point of fact they were personally all the time chock-full of some faith or other themselves. I am all the while, however, so profoundly convinced that my own position is correct, that your invitation has seemed to me a good occasion to make my statements more clear. Perhaps your minds will be more open than those with which I have hitherto had to deal. I will be as little technical as I can, though I must begin by setting up some technical distinctions that will help us in the end.

I

Let us give the name of *hypothesis* to anything that may be proposed to our belief; and just as the electricians speak of live and dead wires, let us speak of any hypothesis as either *live* or *dead*. A live hypothesis is one which appeals as a real possibility to him to whom it is proposed. If I ask you to believe in the Mahdi, the notion makes no electric connection with your nature,—it refuses to scintillate with any credibility at all. As an hypothesis it is completely dead. To an Arab, however (even if he be not one of the Mahdi's followers), the hypothesis is among the mind's possibilities: it is alive. This shows that deadness and liveness in an hypothesis are not intrinsic properties, but relations to the individual thinker. They are measured by his willingness to act. The maximum of liveness in an hypothesis means willingness to act irrevocably. Practically, that means belief; but there is some believing tendency wherever there is willingness to act at all.

Next, let us call the decision between two hypotheses an *option*. Options may be of several kinds. They may be—1, *living* or *dead*; 2, *forced* or *avoidable*; 3, *momentous* or *trivial*; and for our purposes we may call an option a *genuine* option when it is of the forced, living, and momentous kind.

1. A living option is one in which both hypotheses are live ones. If I say to you: "Be a theosophist or be a Mohammedan," it is probably a dead option, because for you neither hypothesis is likely to be alive. But if I say: "Be an agnostic or be a Christian," it is otherwise: trained as you are, each hypothesis makes some appeal, however small, to your belief.

2. Next, if I say to you: "Choose between going out with your umbrella or without it," I do not offer you a genuine option, for it is not forced. You can easily avoid it by not going out at all. Similarly, if I say, "Either love me or hate me," "Either call my theory true or call it false," your option is avoidable. You may remain indifferent to me, neither loving nor hating, and you may decline to offer any judgment as to my theory. But if I say, "Either accept this truth or go without it," I put on

² An Address to the Philosophical Clubs of Yale and Brown Universities. Published in the *New World*, June, 1896.

you a forced option, for there is no standing place outside of the alternative. Every dilemma based on a complete logical disjunction, with no possibility of not choosing, is an option of this forced kind.

3. Finally, if I were Dr. Nansen and proposed to you to join my North Pole expedition, your option would be momentous; for this would probably be your only similar opportunity, and your choice now would either exclude you from the North Pole sort of immortality altogether or put at least the chance of it into your hands. He who refuses to embrace a unique opportunity loses the prize as surely as if he tried and failed. *Per contra*, the option is trivial when the opportunity is not unique, when the stake is insignificant, or when the decision is reversible if it later prove unwise. Such trivial options abound in the scientific life. A chemist finds an hypothesis live enough to spend a year in its verification: he believes in it to that extent. But if his experiments prove inconclusive either way, he is quit for his loss of time, no vital harm being done.

It will facilitate our discussion if we keep all these distinctions well in mind.

II

The next matter to consider is the actual psychology of human opinion. When we look at certain facts, it seems as if our passional and volitional nature lay at the root of all our convictions. When we look at others, it seems as if they could do nothing when the intellect had once said its say. Let us take the latter facts up first.

Does it not seem preposterous on the very face of it to talk of our opinions being modifiable at will? Can our will either help or hinder our intellect in its perceptions of truth? Can we, by just willing it, believe that Abraham Lincoln's existence is a myth, and that the portraits of him in McClure's Magazine are all of some one else? Can we, by any effort of our will, or by any strength of wish that it were true, believe ourselves well and about when we are roaring with rheumatism in bed, or feel certain that the sum of the two one-dollar bills in our pocket must be a hundred dollars? We can say any of these things, but we are absolutely impotent to believe them; and of just such things is the whole fabric of the truths that we do believe in made up,—matters of fact, immediate or remote, as Hume said, and relations between ideas, which are either there or not there for us if we see them so, and which if not there cannot be put there by any action of our own.

In Pascal's *Thoughts* there is a celebrated passage known in literature as Pascal's wager. In it he tries to force us into Christianity by reasoning as if our concern with truth resembled our concern with the stakes in a game of chance. Translated freely his words are these: You must either believe or not believe that God is—which will you do? Your human reason cannot say. A game is going on between you and the nature of things which at the day of judgment will bring out either heads or tails. Weigh what your gains and your losses would be if you should stake all you have on heads, or God's existence: if you win in such case, you gain eternal beatitude; if you lose, you lose nothing at all. If there were an infinity of chances, and only one for God in this wager, still you ought to stake your all on God; for though you surely risk a finite loss by this procedure, any finite loss is reasonable, even a certain one is reasonable, if there is but the possibility of infinite gain. Go, then, and take holy water, and have masses said; belief will come and stupefy your scruples,—*Cela vous fera croire et vous abêтира*. Why should you not? At bottom, what have you to lose?

You probably feel that when religious faith expresses itself thus, in the language of the gaming-table, it is put to its last trumps. Surely Pascal's own personal belief in masses and holy water had far other springs; and this celebrated page of his is but an argument for others, a last desperate snatch at a weapon against the hardness of the unbelieving heart. We feel that a faith in masses and holy water adopted wilfully after such a mechanical calculation would lack the inner soul of faith's reality; and if we were ourselves in the place of the Deity, we should probably take particular pleasure in cutting off believers of this pattern from their infinite reward. It is evident that unless there be some pre-existing tendency to believe in masses and holy water, the option offered to the will by Pascal is not

a living option. Certainly no Turk ever took to masses and holy water on its account; and even to us Protestants these means of salvation seem such foregone impossibilities that Pascal's logic, invoked for them specifically, leaves us unmoved. As well might the Mahdi write to us, saying, "I am the Expected One whom God has created in his effulgence. You shall be infinitely happy if you confess me; otherwise you shall be cut off from the light of the sun. Weigh, then, your infinite gain if I am genuine against your finite sacrifice if I am not!" His logic would be that of Pascal; but he would vainly use it on us, for the hypothesis he offers us is dead. No tendency to act on it exists in us to any degree.

The talk of believing by our volition seems, then, from one point of view, simply silly. From another point of view it is worse than silly, it is vile. When one turns to the magnificent edifice of the physical sciences, and sees how it was reared; what thousands of disinterested moral lives of men lie buried in its mere foundations; what patience and postponement, what choking down of preference, what submission to the icy laws of outer fact are wrought into its very stones and mortar; how absolutely impersonal it stands in its vast augustness,—then how besotted and contemptible seems every little sentimentalist who comes blowing his voluntary smoke-wreaths, and pretending to decide things from out of his private dream! Can we wonder if those bred in the rugged and manly school of science should feel like spewing such subjectivism out of their mouths? The whole system of loyalties which grow up in the schools of science go dead against its toleration; so that it is only natural that those who have caught the scientific fever should pass over to the opposite extreme, and write sometimes as if the incorruptibly truthful intellect ought positively to prefer bitterness and unacceptableness to the heart in its cup.

It fortifies my soul to know
That, though I perish, Truth is so—

sings Clough, while Huxley exclaims: "My only consolation lies in the reflection that, however bad our posterity may become, so far as they hold by the plain rule of not pretending to believe what they have no reason to believe, because it may be to their advantage so to pretend [the word 'pretend' is surely here redundant], they will not have reached the lowest depth of immorality." And that delicious *enfant terrible* Clifford writes; "Belief is desecrated when given to unproved and unquestioned statements for the solace and private pleasure of the believer,... Whoso would deserve well of his fellows in this matter will guard the purity of his belief with a very fanaticism of jealous care, lest at any time it should rest on an unworthy object, and catch a stain which can never be wiped away.... If [a] belief has been accepted on insufficient evidence [even though the belief be true, as Clifford on the same page explains] the pleasure is a stolen one.... It is sinful because it is stolen in defiance of our duty to mankind. That duty is to guard ourselves from such beliefs as from a pestilence which may shortly master our own body and then spread to the rest of the town.... It is wrong always, everywhere, and for every one, to believe anything upon insufficient evidence."

III

All this strikes one as healthy, even when expressed, as by Clifford, with somewhat too much of robustious pathos in the voice. Free-will and simple wishing do seem, in the matter of our credences, to be only fifth wheels to the coach. Yet if any one should thereupon assume that intellectual insight is what remains after wish and will and sentimental preference have taken wing, or that pure reason is what then settles our opinions, he would fly quite as directly in the teeth of the facts.

It is only our already dead hypotheses that our willing nature is unable to bring to life again. But what has made them dead for us is for the most part a previous action of our willing nature of an antagonistic kind. When I say 'willing nature,' I do not mean only such deliberate volitions as may

have set up habits of belief that we cannot now escape from,—I mean all such factors of belief as fear and hope, prejudice and passion, imitation and partisanship, the circumpressure of our caste and set. As a matter of fact we find ourselves believing, we hardly know how or why. Mr. Balfour gives the name of 'authority' to all those influences, born of the intellectual climate, that make hypotheses possible or impossible for us, alive or dead. Here in this room, we all of us believe in molecules and the conservation of energy, in democracy and necessary progress, in Protestant Christianity and the duty of fighting for 'the doctrine of the immortal Monroe,' all for no reasons worthy of the name. We see into these matters with no more inner clearness, and probably with much less, than any disbeliever in them might possess. His unconventionality would probably have some grounds to show for its conclusions; but for us, not insight, but the *prestige* of the opinions, is what makes the spark shoot from them and light up our sleeping magazines of faith. Our reason is quite satisfied, in nine hundred and ninety-nine cases out of every thousand of us, if it can find a few arguments that will do to recite in case our credulity is criticised by some one else. Our faith is faith in some one else's faith, and in the greatest matters this is most the case. Our belief in truth itself, for instance, that there is a truth, and that our minds and it are made for each other,—what is it but a passionate affirmation of desire, in which our social system backs us up? We want to have a truth; we want to believe that our experiments and studies and discussions must put us in a continually better and better position towards it; and on this line we agree to fight out our thinking lives. But if a pyrrhonic sceptic asks us *how we know* all this, can our logic find a reply? No! certainly it cannot. It is just one volition against another,—we willing to go in for life upon a trust or assumption which he, for his part, does not care to make.³

As a rule we disbelieve all facts and theories for which we have no use. Clifford's cosmic emotions find no use for Christian feelings. Huxley belabors the bishops because there is no use for sacerdotalism in his scheme of life. Newman, on the contrary, goes over to Romanism, and finds all sorts of reasons good for staying there, because a priestly system is for him an organic need and delight. Why do so few 'scientists' even look at the evidence for telepathy, so called? Because they think, as a leading biologist, now dead, once said to me, that even if such a thing were true, scientists ought to band together to keep it suppressed and concealed. It would undo the uniformity of Nature and all sorts of other things without which scientists cannot carry on their pursuits. But if this very man had been shown something which as a scientist he might *do* with telepathy, he might not only have examined the evidence, but even have found it good enough. This very law which the logicians would impose upon us—if I may give the name of logicians to those who would rule out our willing nature here—is based on nothing but their own natural wish to exclude all elements for which they, in their professional quality of logicians, can find no use.

Evidently, then, our non-intellectual nature does influence our convictions. There are passional tendencies and volitions which run before and others which come after belief, and it is only the latter that are too late for the fair; and they are not too late when the previous passional work has been already in their own direction. Pascal's argument, instead of being powerless, then seems a regular clincher, and is the last stroke needed to make our faith in masses and holy water complete. The state of things is evidently far from simple; and pure insight and logic, whatever they might do ideally, are not the only things that really do produce our creeds.

IV

Our next duty, having recognized this mixed-up state of affairs, is to ask whether it be simply reprehensible and pathological, or whether, on the contrary, we must treat it as a normal element in making up our minds. The thesis I defend is, briefly stated, this: *Our passional nature not only lawfully may, but must, decide an option between propositions, whenever it is a genuine option that cannot by*

³ Compare the admirable page 310 in S. H. Hodgson's "Time and Space," London, 1865.

its nature be decided on intellectual grounds; for to say, under such circumstances, "Do not decide, but leave the question open," is itself a passional decision,—just like deciding yes or no,—and is attended with the same risk of losing the truth. The thesis thus abstractly expressed will, I trust, soon become quite clear. But I must first indulge in a bit more of preliminary work.

V

It will be observed that for the purposes of this discussion we are on 'dogmatic' ground,—ground, I mean, which leaves systematic philosophical scepticism altogether out of account. The postulate that there is truth, and that it is the destiny of our minds to attain it, we are deliberately resolving to make, though the sceptic will not make it. We part company with him, therefore, absolutely, at this point. But the faith that truth exists, and that our minds can find it, may be held in two ways. We may talk of the *empiricist* way and of the *absolutist* way of believing in truth. The absolutists in this matter say that we not only can attain to knowing truth, but we can *know when* we have attained to knowing it; while the empiricists think that although we may attain it, we cannot infallibly know when. To *know* is one thing, and to know for certain *that* we know is another. One may hold to the first being possible without the second; hence the empiricists and the absolutists, although neither of them is a sceptic in the usual philosophic sense of the term, show very different degrees of dogmatism in their lives.

If we look at the history of opinions, we see that the empiricist tendency has largely prevailed in science, while in philosophy the absolutist tendency has had everything its own way. The characteristic sort of happiness, indeed, which philosophies yield has mainly consisted in the conviction felt by each successive school or system that by it bottom-certitude had been attained. "Other philosophies are collections of opinions, mostly false; *my* philosophy gives standing-ground forever,"—who does not recognize in this the key-note of every system worthy of the name? A system, to be a system at all, must come as a *closed* system, reversible in this or that detail, perchance, but in its essential features never!

Scholastic orthodoxy, to which one must always go when one wishes to find perfectly clear statement, has beautifully elaborated this absolutist conviction in a doctrine which it calls that of 'objective evidence.' If, for example, I am unable to doubt that I now exist before you, that two is less than three, or that if all men are mortal then I am mortal too, it is because these things illumine my intellect irresistibly. The final ground of this objective evidence possessed by certain propositions is the *adaequatio intellectûs nostri cum rê*. The certitude it brings involves an *aptitudinem ad extorquendum certum assensum* on the part of the truth envisaged, and on the side of the subject a *quietem in cognitione*, when once the object is mentally received, that leaves no possibility of doubt behind; and in the whole transaction nothing operates but the *entitas ipsa* of the object and the *entitas ipsa* of the mind. We slouchy modern thinkers dislike to talk in Latin,—indeed, we dislike to talk in set terms at all; but at bottom our own state of mind is very much like this whenever we uncritically abandon ourselves: You believe in objective evidence, and I do. Of some things we feel that we are certain: we know, and we know that we do know. There is something that gives a click inside of us, a bell that strikes twelve, when the hands of our mental clock have swept the dial and meet over the meridian hour. The greatest empiricists among us are only empiricists on reflection: when left to their instincts, they dogmatize like infallible popes. When the Cliffords tell us how sinful it is to be Christians on such 'insufficient evidence,' insufficiency is really the last thing they have in mind. For them the evidence is absolutely sufficient, only it makes the other way. They believe so completely in an anti-christian order of the universe that there is no living option: Christianity is a dead hypothesis from the start.

VI

But now, since we are all such absolutists by instinct, what in our quality of students of philosophy ought we to do about the fact? Shall we espouse and indorse it? Or shall we treat it as a weakness of our nature from which we must free ourselves, if we can?

I sincerely believe that the latter course is the only one we can follow as reflective men. Objective evidence and certitude are doubtless very fine ideals to play with, but where on this moonlit and dream-visited planet are they found? I am, therefore, myself a complete empiricist so far as my theory of human knowledge goes. I live, to be sure, by the practical faith that we must go on experiencing and thinking over our experience, for only thus can our opinions grow more true; but to hold any one of them—I absolutely do not care which—as if it never could be reinterpretable or corrigible, I believe to be a tremendously mistaken attitude, and I think that the whole history of philosophy will bear me out. There is but one indefectibly certain truth, and that is the truth that pyrrhonic scepticism itself leaves standing,—the truth that the present phenomenon of consciousness exists. That, however, is the bare starting-point of knowledge, the mere admission of a stuff to be philosophized about. The various philosophies are but so many attempts at expressing what this stuff really is. And if we repair to our libraries what disagreement do we discover! Where is a certainly true answer found? Apart from abstract propositions of comparison (such as two and two are the same as four), propositions which tell us nothing by themselves about concrete reality, we find no proposition ever regarded by any one as evidently certain that has not either been called a falsehood, or at least had its truth sincerely questioned by some one else. The transcending of the axioms of geometry, not in play but in earnest, by certain of our contemporaries (as Zöllner and Charles H. Hinton), and the rejection of the whole Aristotelian logic by the Hegelians, are striking instances in point.

No concrete test of what is really true has ever been agreed upon. Some make the criterion external to the moment of perception, putting it either in revelation, the *consensus gentium*, the instincts of the heart, or the systematized experience of the race. Others make the perceptive moment its own test,—Descartes, for instance, with his clear and distinct ideas guaranteed by the veracity of God; Reid with his 'common-sense;' and Kant with his forms of synthetic judgment *a priori*. The inconceivability of the opposite; the capacity to be verified by sense; the possession of complete organic unity or self-relation, realized when a thing is its own other,—are standards which, in turn, have been used. The much lauded objective evidence is never triumphantly there, it is a mere aspiration or *Grenzbegriff*, marking the infinitely remote ideal of our thinking life. To claim that certain truths now possess it, is simply to say that when you think them true and they *are* true, then their evidence is objective, otherwise it is not. But practically one's conviction that the evidence one goes by is of the real objective brand, is only one more subjective opinion added to the lot. For what a contradictory array of opinions have objective evidence and absolute certitude been claimed! The world is rational through and through,—its existence is an ultimate brute fact; there is a personal God,—a personal God is inconceivable; there is an extra-mental physical world immediately known,—the mind can only know its own ideas; a moral imperative exists,—obligation is only the resultant of desires; a permanent spiritual principle is in every one,—there are only shifting states of mind; there is an endless chain of causes,—there is an absolute first cause; an eternal necessity,—a freedom; a purpose,—no purpose; a primal One,—a primal Many; a universal continuity,—an essential discontinuity in things; an infinity,—no infinity. There is this,—there is that; there is indeed nothing which some one has not thought absolutely true, while his neighbor deemed it absolutely false; and not an absolutist among them seems ever to have considered that the trouble may all the time be essential, and that the intellect, even with truth directly in its grasp, may have no infallible signal for knowing whether it be truth or no. When, indeed, one remembers that the most striking practical

application to life of the doctrine of objective certitude has been the conscientious labors of the Holy Office of the Inquisition, one feels less tempted than ever to lend the doctrine a respectful ear.

But please observe, now, that when as empiricists we give up the doctrine of objective certitude, we do not thereby give up the quest or hope of truth itself. We still pin our faith on its existence, and still believe that we gain an ever better position towards it by systematically continuing to roll up experiences and think. Our great difference from the scholastic lies in the way we face. The strength of his system lies in the principles, the origin, the *terminus a quo* of his thought; for us the strength is in the outcome, the upshot, the *terminus ad quem*. Not where it comes from but what it leads to is to decide. It matters not to an empiricist from what quarter an hypothesis may come to him: he may have acquired it by fair means or by foul; passion may have whispered or accident suggested it; but if the total drift of thinking continues to confirm it, that is what he means by its being true.

VII

One more point, small but important, and our preliminaries are done. There are two ways of looking at our duty in the matter of opinion,—ways entirely different, and yet ways about whose difference the theory of knowledge seems hitherto to have shown very little concern. *We must know the truth*; and *we must avoid error*,—these are our first and great commandments as would-be knowers; but they are not two ways of stating an identical commandment, they are two separable laws. Although it may indeed happen that when we believe the truth *A*, we escape as an incidental consequence from believing the falsehood *B*, it hardly ever happens that by merely disbelieving *B* we necessarily believe *A*. We may in escaping *B* fall into believing other falsehoods, *C* or *D*, just as bad as *B*; or we may escape *B* by not believing anything at all, not even *A*.

Believe truth! Shun error!—these, we see, are two materially different laws; and by choosing between them we may end by coloring differently our whole intellectual life. We may regard the chase for truth as paramount, and the avoidance of error as secondary; or we may, on the other hand, treat the avoidance of error as more imperative, and let truth take its chance. Clifford, in the instructive passage which I have quoted, exhorts us to the latter course. Believe nothing, he tells us, keep your mind in suspense forever, rather than by closing it on insufficient evidence incur the awful risk of believing lies. You, on the other hand, may think that the risk of being in error is a very small matter when compared with the blessings of real knowledge, and be ready to be duped many times in your investigation rather than postpone indefinitely the chance of guessing true. I myself find it impossible to go with Clifford. We must remember that these feelings of our duty about either truth or error are in any case only expressions of our passional life. Biologically considered, our minds are as ready to grind out falsehood as veracity, and he who says, "Better go without belief forever than believe a lie!" merely shows his own preponderant private horror of becoming a dupe. He may be critical of many of his desires and fears, but this fear he slavishly obeys. He cannot imagine any one questioning its binding force. For my own part, I have also a horror of being duped; but I can believe that worse things than being duped may happen to a man in this world: so Clifford's exhortation has to my ears a thoroughly fantastic sound. It is like a general informing his soldiers that it is better to keep out of battle forever than to risk a single wound. Not so are victories either over enemies or over nature gained. Our errors are surely not such awfully solemn things. In a world where we are so certain to incur them in spite of all our caution, a certain lightness of heart seems healthier than this excessive nervousness on their behalf. At any rate, it seems the fittest thing for the empiricist philosopher.

VIII

And now, after all this introduction, let us go straight at our question. I have said, and now repeat it, that not only as a matter of fact do we find our passional nature influencing us in our opinions,

but that there are some options between opinions in which this influence must be regarded both as an inevitable and as a lawful determinant of our choice.

I fear here that some of you my hearers will begin to scent danger, and lend an inhospitable ear. Two first steps of passion you have indeed had to admit as necessary,—we must think so as to avoid dupery, and we must think so as to gain truth; but the surest path to those ideal consummations, you will probably consider, is from now onwards to take no further passional step.

Well, of course, I agree as far as the facts will allow. Wherever the option between losing truth and gaining it is not momentous, we can throw the chance of *gaining truth* away, and at any rate save ourselves from any chance of *believing falsehood*, by not making up our minds at all till objective evidence has come. In scientific questions, this is almost always the case; and even in human affairs in general, the need of acting is seldom so urgent that a false belief to act on is better than no belief at all. Law courts, indeed, have to decide on the best evidence attainable for the moment, because a judge's duty is to make law as well as to ascertain it, and (as a learned judge once said to me) few cases are worth spending much time over: the great thing is to have them decided on *any* acceptable principle, and got out of the way. But in our dealings with objective nature we obviously are recorders, not makers, of the truth; and decisions for the mere sake of deciding promptly and getting on to the next business would be wholly out of place. Throughout the breadth of physical nature facts are what they are quite independently of us, and seldom is there any such hurry about them that the risks of being duped by believing a premature theory need be faced. The questions here are always trivial options, the hypotheses are hardly living (at any rate not living for us spectators), the choice between believing truth or falsehood is seldom forced. The attitude of sceptical balance is therefore the absolutely wise one if we would escape mistakes. What difference, indeed, does it make to most of us whether we have or have not a theory of the Röntgen rays, whether we believe or not in mind-stuff, or have a conviction about the causality of conscious states? It makes no difference. Such options are not forced on us. On every account it is better not to make them, but still keep weighing reasons *pro et contra* with an indifferent hand.

I speak, of course, here of the purely judging mind. For purposes of discovery such indifference is to be less highly recommended, and science would be far less advanced than she is if the passionate desires of individuals to get their own faiths confirmed had been kept out of the game. See for example the sagacity which Spencer and Weismann now display. On the other hand, if you want an absolute duffer in an investigation, you must, after all, take the man who has no interest whatever in its results: he is the warranted incapable, the positive fool. The most useful investigator, because the most sensitive observer, is always he whose eager interest in one side of the question is balanced by an equally keen nervousness lest he become deceived.⁴ Science has organized this nervousness into a regular *technique*, her so-called method of verification; and she has fallen so deeply in love with the method that one may even say she has ceased to care for truth by itself at all. It is only truth as technically verified that interests her. The truth of truths might come in merely affirmative form, and she would decline to touch it. Such truth as that, she might repeat with Clifford, would be stolen in defiance of her duty to mankind. Human passions, however, are stronger than technical rules. "Le coeur a ses raisons," as Pascal says, "que la raison ne connaît pas;" and however indifferent to all but the bare rules of the game the umpire, the abstract intellect, may be, the concrete players who furnish him the materials to judge of are usually, each one of them, in love with some pet 'live hypothesis' of his own. Let us agree, however, that wherever there is no forced option, the dispassionately judicial intellect with no pet hypothesis, saving us, as it does, from dupery at any rate, ought to be our ideal.

The question next arises: Are there not somewhere forced options in our speculative questions, and can we (as men who may be interested at least as much in positively gaining truth as in merely escaping dupery) always wait with impunity till the coercive evidence shall have arrived? It seems *a*

⁴ Compare Wilfrid Ward's Essay, "The Wish to Believe," in his *Witnesses to the Unseen*, Macmillan & Co., 1893.

priori improbable that the truth should be so nicely adjusted to our needs and powers as that. In the great boarding-house of nature, the cakes and the butter and the syrup seldom come out so even and leave the plates so clean. Indeed, we should view them with scientific suspicion if they did.

IX

Moral questions immediately present themselves as questions whose solution cannot wait for sensible proof. A moral question is a question not of what sensibly exists, but of what is good, or would be good if it did exist. Science can tell us what exists; but to compare the *worths*, both of what exists and of what does not exist, we must consult not science, but what Pascal calls our heart. Science herself consults her heart when she lays it down that the infinite ascertainment of fact and correction of false belief are the supreme goods for man. Challenge the statement, and science can only repeat it oracularly, or else prove it by showing that such ascertainment and correction bring man all sorts of other goods which man's heart in turn declares. The question of having moral beliefs at all or not having them is decided by our will. Are our moral preferences true or false, or are they only odd biological phenomena, making things good or bad for *us*, but in themselves indifferent? How can your pure intellect decide? If your heart does not *want* a world of moral reality, your head will assuredly never make you believe in one. Mephistophelian scepticism, indeed, will satisfy the head's play-instincts much better than any rigorous idealism can. Some men (even at the student age) are so naturally cool-hearted that the moralistic hypothesis never has for them any pungent life, and in their supercilious presence the hot young moralist always feels strangely ill at ease. The appearance of knowingness is on their side, of naïveté and gullibility on his. Yet, in the inarticulate heart of him, he clings to it that he is not a dupe, and that there is a realm in which (as Emerson says) all their wit and intellectual superiority is no better than the cunning of a fox. Moral scepticism can no more be refuted or proved by logic than intellectual scepticism can. When we stick to it that there *is* truth (be it of either kind), we do so with our whole nature, and resolve to stand or fall by the results. The sceptic with his whole nature adopts the doubting attitude; but which of us is the wiser, Omniscience only knows.

Turn now from these wide questions of good to a certain class of questions of fact, questions concerning personal relations, states of mind between one man and another. *Do you like me or not?*—for example. Whether you do or not depends, in countless instances, on whether I meet you half-way, am willing to assume that you must like me, and show you trust and expectation. The previous faith on my part in your liking's existence is in such cases what makes your liking come. But if I stand aloof, and refuse to budge an inch until I have objective evidence, until you shall have done something apt, as the absolutists say, *ad extorquendum assensum meum*, ten to one your liking never comes. How many women's hearts are vanquished by the mere sanguine insistence of some man that they *must* love him! he will not consent to the hypothesis that they cannot. The desire for a certain kind of truth here brings about that special truth's existence; and so it is in innumerable cases of other sorts. Who gains promotions, boons, appointments, but the man in whose life they are seen to play the part of live hypotheses, who discounts them, sacrifices other things for their sake before they have come, and takes risks for them in advance? His faith acts on the powers above him as a claim, and creates its own verification.

A social organism of any sort whatever, large or small, is what it is because each member proceeds to his own duty with a trust that the other members will simultaneously do theirs. Wherever a desired result is achieved by the co-operation of many independent persons, its existence as a fact is a pure consequence of the precursive faith in one another of those immediately concerned. A government, an army, a commercial system, a ship, a college, an athletic team, all exist on this condition, without which not only is nothing achieved, but nothing is even attempted. A whole train of passengers (individually brave enough) will be looted by a few highwaymen, simply because the

latter can count on one another, while each passenger fears that if he makes a movement of resistance, he will be shot before any one else backs him up. If we believed that the whole car-full would rise at once with us, we should each severally rise, and train-robbing would never even be attempted. There are, then, cases where a fact cannot come at all unless a preliminary faith exists in its coming. *And where faith in a fact can help create the fact*, that would be an insane logic which should say that faith running ahead of scientific evidence is the 'lowest kind of immorality' into which a thinking being can fall. Yet such is the logic by which our scientific absolutists pretend to regulate our lives!

X

In truths dependent on our personal action, then, faith based on desire is certainly a lawful and possibly an indispensable thing.

But now, it will be said, these are all childish human cases, and have nothing to do with great cosmical matters, like the question of religious faith. Let us then pass on to that. Religions differ so much in their accidents that in discussing the religious question we must make it very generic and broad. What then do we now mean by the religious hypothesis? Science says things are; morality says some things are better than other things; and religion says essentially two things.

First, she says that the best things are the more eternal things, the overlapping things, the things in the universe that throw the last stone, so to speak, and say the final word. "Perfection is eternal,"—this phrase of Charles Secrétan seems a good way of putting this first affirmation of religion, an affirmation which obviously cannot yet be verified scientifically at all.

The second affirmation of religion is that we are better off even now if we believe her first affirmation to be true.

Now, let us consider what the logical elements of this situation are *in case the religious hypothesis in both its branches be really true*. (Of course, we must admit that possibility at the outset. If we are to discuss the question at all, it must involve a living option. If for any of you religion be a hypothesis that cannot, by any living possibility be true, then you need go no farther. I speak to the 'saving remnant' alone.) So proceeding, we see, first, that religion offers itself as a *momentous* option. We are supposed to gain, even now, by our belief, and to lose by our non-belief, a certain vital good. Secondly, religion is a *forced* option, so far as that good goes. We cannot escape the issue by remaining sceptical and waiting for more light, because, although we do avoid error in that way *if religion be untrue*, we lose the good, *if it be true*, just as certainly as if we positively chose to disbelieve. It is as if a man should hesitate indefinitely to ask a certain woman to marry him because he was not perfectly sure that she would prove an angel after he brought her home. Would he not cut himself off from that particular angel-possibility as decisively as if he went and married some one else? Scepticism, then, is not avoidance of option; it is option of a certain particular kind of risk. *Better risk loss of truth than chance of error*,—that is your faith-vetoer's exact position. He is actively playing his stake as much as the believer is; he is backing the field against the religious hypothesis, just as the believer is backing the religious hypothesis against the field. To preach scepticism to us as a duty until 'sufficient evidence' for religion be found, is tantamount therefore to telling us, when in presence of the religious hypothesis, that to yield to our fear of its being error is wiser and better than to yield to our hope that it may be true. It is not intellect against all passions, then; it is only intellect with one passion laying down its law. And by what, forsooth, is the supreme wisdom of this passion warranted? Dupery for dupery, what proof is there that dupery through hope is so much worse than dupery through fear? I, for one, can see no proof; and I simply refuse obedience to the scientist's command to imitate his kind of option, in a case where my own stake is important enough to give me the right to choose my own form of risk. If religion be true and the evidence for it be still insufficient, I do not wish, by putting your extinguisher upon my nature (which feels to me as if it had after all some business in this matter), to forfeit my sole chance in life of getting upon the winning side,—that chance depending,

of course, on my willingness to run the risk of acting as if my passional need of taking the world religiously might be prophetic and right.

All this is on the supposition that it really may be prophetic and right, and that, even to us who are discussing the matter, religion is a live hypothesis which may be true. Now, to most of us religion comes in a still further way that makes a veto on our active faith even more illogical. The more perfect and more eternal aspect of the universe is represented in our religions as having personal form. The universe is no longer a mere *It* to us, but a *Thou*, if we are religious; and any relation that may be possible from person to person might be possible here. For instance, although in one sense we are passive portions of the universe, in another we show a curious autonomy, as if we were small active centres on our own account. We feel, too, as if the appeal of religion to us were made to our own active good-will, as if evidence might be forever withheld from us unless we met the hypothesis half-way. To take a trivial illustration: just as a man who in a company of gentlemen made no advances, asked a warrant for every concession, and believed no one's word without proof, would cut himself off by such churlishness from all the social rewards that a more trusting spirit would earn,—so here, one who should shut himself up in snarling logicity and try to make the gods extort his recognition willy-nilly, or not get it at all, might cut himself off forever from his only opportunity of making the gods' acquaintance. This feeling, forced on us we know not whence, that by obstinately believing that there are gods (although not to do so would be so easy both for our logic and our life) we are doing the universe the deepest service we can, seems part of the living essence of the religious hypothesis. If the hypothesis *were* true in all its parts, including this one, then pure intellectualism, with its veto on our making willing advances, would be an absurdity; and some participation of our sympathetic nature would be logically required. I, therefore, for one cannot see my way to accepting the agnostic rules for truth-seeking, or wilfully agree to keep my willing nature out of the game. I cannot do so for this plain reason, that *a rule of thinking which would absolutely prevent me from acknowledging certain kinds of truth if those kinds of truth were really there, would be an irrational rule*. That for me is the long and short of the formal logic of the situation, no matter what the kinds of truth might materially be.

I confess I do not see how this logic can be escaped. But sad experience makes me fear that some of you may still shrink from radically saying with me, *in abstracto*, that we have the right to believe at our own risk any hypothesis that is live enough to tempt our will. I suspect, however, that if this is so, it is because you have got away from the abstract logical point of view altogether, and are thinking (perhaps without realizing it) of some particular religious hypothesis which for you is dead. The freedom to 'believe what we will' you apply to the case of some patent superstition; and the faith you think of is the faith defined by the schoolboy when he said, "Faith is when you believe something that you know ain't true." I can only repeat that this is misapprehension. *In concreto*, the freedom to believe can only cover living options which the intellect of the individual cannot by itself resolve; and living options never seem absurdities to him who has them to consider. When I look at the religious question as it really puts itself to concrete men, and when I think of all the possibilities which both practically and theoretically it involves, then this command that we shall put a stopper on our heart, instincts, and courage, and wait—acting of course meanwhile more or less as if religion were *not* true⁵—till doomsday, or till such time as our intellect and senses working together may have raked in evidence enough,—this command, I say, seems to me the queerest idol ever manufactured in the philosophic cave. Were we scholastic absolutists, there might be more excuse. If we had an infallible intellect with its objective certitudes, we might feel ourselves disloyal to such a perfect organ

⁵ Since belief is measured by action, he who forbids us to believe religion to be true, necessarily also forbids us to act as we should if we did believe it to be true. The whole defence of religious faith hinges upon action. If the action required or inspired by the religious hypothesis is in no way different from that dictated by the naturalistic hypothesis, then religious faith is a pure superfluity, better pruned away, and controversy about its legitimacy is a piece of idle trifling, unworthy of serious minds. I myself believe, of course, that the religious hypothesis gives to the world an expression which specifically determines our reactions, and makes them in a large part unlike what they might be on a purely naturalistic scheme of belief.

of knowledge in not trusting to it exclusively, in not waiting for its releasing word. But if we are empiricists, if we believe that no bell in us tolls to let us know for certain when truth is in our grasp, then it seems a piece of idle fantasticality to preach so solemnly our duty of waiting for the bell. Indeed we *may* wait if we will,—I hope you do not think that I am denying that,—but if we do so, we do so at our peril as much as if we believed. In either case we *act*, taking our life in our hands. No one of us ought to issue vetoes to the other, nor should we bandy words of abuse. We ought, on the contrary, delicately and profoundly to respect one another's mental freedom: then only shall we bring about the intellectual republic; then only shall we have that spirit of inner tolerance without which all our outer tolerance is soulless, and which is empiricism's glory; then only shall we live and let live, in speculative as well as in practical things.

I began by a reference to Fitz James Stephen; let me end by a quotation from him. "What do you think of yourself? What do you think of the world?... These are questions with which all must deal as it seems good to them. They are riddles of the Sphinx, and in some way or other we must deal with them.... In all important transactions of life we have to take a leap in the dark.... If we decide to leave the riddles unanswered, that is a choice; if we waver in our answer, that, too, is a choice: but whatever choice we make, we make it at our peril. If a man chooses to turn his back altogether on God and the future, no one can prevent him; no one can show beyond reasonable doubt that he is mistaken. If a man thinks otherwise and acts as he thinks, I do not see that any one can prove that *he* is mistaken. Each must act as he thinks best; and if he is wrong, so much the worse for him. We stand on a mountain pass in the midst of whirling snow and blinding mist, through which we get glimpses now and then of paths which may be deceptive. If we stand still we shall be frozen to death. If we take the wrong road we shall be dashed to pieces. We do not certainly know whether there is any right one. What must we do? 'Be strong and of a good courage.' Act for the best, hope for the best, and take what comes.... If death ends all, we cannot meet death better."⁶

⁶ Liberty, Equality, Fraternity, p. 353, 2d edition. London, 1874.

IS LIFE WORTH LIVING?⁷

When Mr. Mallock's book with this title appeared some fifteen years ago, the jocose answer that "it depends on the *liver*" had great currency in the newspapers. The answer which I propose to give to-night cannot be jocose. In the words of one of Shakespeare's prologues,—

"I come no more to make you laugh; things now,
That bear a weighty and a serious brow,
Sad, high, and working, full of state and woe,"—

must be my theme. In the deepest heart of all of us there is a corner in which the ultimate mystery of things works sadly; and I know not what such an association as yours intends, nor what you ask of those whom you invite to address you, unless it be to lead you from the surface-glamour of existence, and for an hour at least to make you heedless to the buzzing and jiggling and vibration of small interests and excitements that form the tissue of our ordinary consciousness. Without further explanation or apology, then, I ask you to join me in turning an attention, commonly too unwilling, to the profounder bass-note of life. Let us search the lonely depths for an hour together, and see what answers in the last folds and recesses of things our question may find.

I

With many men the question of life's worth is answered by a temperamental optimism which makes them incapable of believing that anything seriously evil can exist. Our dear old Walt Whitman's works are the standing text-book of this kind of optimism. The mere joy of living is so immense in Walt Whitman's veins that it abolishes the possibility of any other kind of feeling:—

"To breathe the air, how delicious!
To speak, to walk, to seize something by the hand!...
To be this incredible God I am!...
O amazement of things, even the least particle!
O spirituality of things!
I too carol the Sun, usher'd or at noon, or as now, setting;
I too throb to the brain and beauty of the earth and of all the
growths of the earth....

I sing to the last the equalities, modern or old,
I sing the endless finales of things,
I say Nature continues—glory continues.
I praise with electric voice,
For I do not see one imperfection in the universe,
And I do not see one cause or result lamentable at last."

So Rousseau, writing of the nine years he spent at Annecy, with nothing but his happiness to tell:—

⁷ An Address to the Harvard Young Men's Christian Association. Published in the International Journal of Ethics for October, 1895, and as a pocket volume by S. B. Weston, Philadelphia, 1896.

"How tell what was neither said nor done nor even thought, but tasted only and felt, with no object of my felicity but the emotion of felicity itself! I rose with the sun, and I was happy; I went to walk, and I was happy; I saw 'Maman,' and I was happy; I left her, and I was happy. I rambled through the woods and over the vine-slopes, I wandered in the valleys, I read, I lounged, I worked in the garden, I gathered the fruits, I helped at the indoor work, and happiness followed me everywhere. It was in no one assignable thing; it was all within myself; it could not leave me for a single instant."

If moods like this could be made permanent, and constitutions like these universal, there would never be any occasion for such discourses as the present one. No philosopher would seek to prove articulately that life is worth living, for the fact that it absolutely is so would vouch for itself, and the problem disappear in the vanishing of the question rather than in the coming of anything like a reply. But we are not magicians to make the optimistic temperament universal; and alongside of the deliverances of temperamental optimism concerning life, those of temperamental pessimism always exist, and oppose to them a standing refutation. In what is called 'circular insanity,' phases of melancholy succeed phases of mania, with no outward cause that we can discover; and often enough to one and the same well person life will present incarnate radiance to-day and incarnate dreariness to-morrow, according to the fluctuations of what the older medical books used to call "the concoction of the humors." In the words of the newspaper joke, "it depends on the liver." Rousseau's ill-balanced constitution undergoes a change, and behold him in his latter evil days a prey to melancholy and black delusions of suspicion and fear. Some men seem launched upon the world even from their birth with souls as incapable of happiness as Walt Whitman's was of gloom, and they have left us their messages in even more lasting verse than his,—the exquisite Leopardi, for example; or our own contemporary, James Thomson, in that pathetic book, *The City of Dreadful Night*, which I think is less well-known than it should be for its literary beauty, simply because men are afraid to quote its words,—they are so gloomy, and at the same time so sincere. In one place the poet describes a congregation gathered to listen to a preacher in a great unilluminated cathedral at night. The sermon is too long to quote, but it ends thus:—

"O Brothers of sad lives! they are so brief;
A few short years must bring us all relief:
Can we not bear these years of laboring breath.
But if you would not this poor life fulfil,
Lo, you are free to end it when you will,
Without the fear of waking after death.'—

"The organ-like vibrations of his voice
Thrilled through the vaulted aisles and died away;
The yearning of the tones which bade rejoice
Was sad and tender as a requiem lay:
Our shadowy congregation rested still,
As brooding on that 'End it when you will.'

"Our shadowy congregation rested still,
As musing on that message we had heard,
And brooding on that 'End it when you will,'
Perchance awaiting yet some other word;

When keen as lightning through a muffled sky
Sprang forth a shrill and lamentable cry;—

""The man speaks sooth, alas! the man speaks sooth:
We have no personal life beyond the grave;
There is no God; Fate knows nor wrath nor ruth:
Can I find here the comfort which I crave?

""In all eternity I had one chance,
One few years' term of gracious human life,—
The splendors of the intellect's advance,
The sweetness of the home with babes and wife;

""The social pleasures with their genial wit;
The fascination of the worlds of art;
The glories of the worlds of Nature lit
By large imagination's glowing heart;

""The rapture of mere being, full of health;
The careless childhood and the ardent youth;
The strenuous manhood winning various wealth,
The reverend age serene with life's long truth;

""All the sublime prerogatives of Man;
The storied memories of the times of old,
The patient tracking of the world's great plan
Through sequences and changes myriadfold.

""This chance was never offered me before;
For me the infinite past is blank and dumb;
This chance recurreth never, nevermore;
Blank, blank for me the infinite To-come.

""And this sole chance was frustrate from my birth,
A mockery, a delusion; and my breath
Of noble human life upon this earth
So racks me that I sigh for senseless death.

""My wine of life is poison mixed with gall,
My noonday passes in a nightmare dream,
I worse than lose the years which are my all:
What can console me for the loss supreme?

""Speak not of comfort where no comfort is,
Speak not at all: can words make foul things fair!
Our life 's a cheat, our death a black abyss:
Hush, and be mute, envisaging despair.'

"This vehement voice came from the northern aisle,

Rapid and shrill to its abrupt harsh close;
And none gave answer for a certain while,
For words must shrink from these most wordless woes;
At last the pulpit speaker simply said,
With humid eyes and thoughtful, drooping head,—

"My Brother, my poor Brothers, it is thus:
This life holds nothing good for us,
But it ends soon and nevermore can be;
And we knew nothing of it ere our birth,
And shall know nothing when consigned to earth;
I ponder these thoughts, and they comfort me."

"It ends soon, and never more can be," "Lo, you are free to end it when you will,"—these verses flow truthfully from the melancholy Thomson's pen, and are in truth a consolation for all to whom, as to him, the world is far more like a steady den of fear than a continual fountain of delight. That life is not worth living the whole army of suicides declare,—an army whose roll-call, like the famous evening gun of the British army, follows the sun round the world and never terminates. We, too, as we sit here in our comfort, must 'ponder these things' also, for we are of one substance with these suicides, and their life is the life we share. The plainest intellectual integrity,—nay, more, the simplest manliness and honor, forbid us to forget their case.

"If suddenly," says Mr. Ruskin, "in the midst of the enjoyments of the palate and lightnesses of heart of a London dinner-party, the walls of the chamber were parted, and through their gap the nearest human beings who were famishing and in misery were borne into the midst of the company feasting and fancy free; if, pale from death, horrible in destitution, broken by despair, body by body they were laid upon the soft carpet, one beside the chair of every guest,—would only the crumbs of the dainties be cast to them; would only a passing glance, a passing thought, be vouchsafed to them? Yet the actual facts, the real relation of each Dives and Lazarus, are not altered by the intervention of the house-wall between the table and the sick-bed,—by the few feet of ground (how few!) which are, indeed, all that separate the merriment from the misery."

II

To come immediately to the heart of my theme, then, what I propose is to imagine ourselves reasoning with a fellow-mortal who is on such terms with life that the only comfort left him is to brood on the assurance, "You may end it when you will." What reasons can we plead that may render such a brother (or sister) willing to take up the burden again? Ordinary Christians, reasoning with would-be suicides, have little to offer them beyond the usual negative, "Thou shalt not." God alone is master of life and death, they say, and it is a blasphemous act to anticipate his absolving hand. But can *we* find nothing richer or more positive than this, no reflections to urge whereby the suicide may actually see, and in all sad seriousness feel, that in spite of adverse appearances even for him life is still worth living? There are suicides and suicides (in the United States about three thousand of them every year), and I must frankly confess that with perhaps the majority of these my suggestions are impotent to deal. Where suicide is the result of insanity or sudden frenzied impulse, reflection is impotent to arrest its headway; and cases like these belong to the ultimate mystery of evil, concerning which I can only offer considerations tending toward religious patience at the end of this hour. My task, let me say now, is practically narrow, and my words are to deal only with that metaphysical *tedium vitae* which is peculiar to reflecting men. Most of you are devoted, for good or ill, to the reflective life. Many of you are students of philosophy, and have already felt in your own persons

the scepticism and unreality that too much grubbing in the abstract roots of things will breed. This is, indeed, one of the regular fruits of the over-studious career. Too much questioning and too little active responsibility lead, almost as often as too much sensualism does, to the edge of the slope, at the bottom of which lie pessimism and the nightmare or suicidal view of life. But to the diseases which reflection breeds, still further reflection can oppose effective remedies; and it is of the melancholy and *Weltschmerz* bred of reflection that I now proceed to speak.

Let me say, immediately, that my final appeal is to nothing more recondite than religious faith. So far as my argument is to be destructive, it will consist in nothing more than the sweeping away of certain views that often keep the springs of religious faith compressed; and so far as it is to be constructive, it will consist in holding up to the light of day certain considerations calculated to let loose these springs in a normal, natural way. Pessimism is essentially a religious disease. In the form of it to which you are most liable, it consists in nothing but a religious demand to which there comes no normal religious reply.

Now, there are two stages of recovery from this disease, two different levels upon which one may emerge from the midnight view to the daylight view of things, and I must treat of them in turn. The second stage is the more complete and joyous, and it corresponds to the freer exercise of religious trust and fancy. There are, as is well known, persons who are naturally very free in this regard, others who are not at all so. There are persons, for instance, whom we find indulging to their heart's content in prospects of immortality; and there are others who experience the greatest difficulty in making such a notion seem real to themselves at all. These latter persons are tied to their senses, restricted to their natural experience; and many of them, moreover, feel a sort of intellectual loyalty to what they call 'hard facts,' which is positively shocked by the easy excursions into the unseen that other people make at the bare call of sentiment. Minds of either class may, however, be intensely religious. They may equally desire atonement and reconciliation, and crave acquiescence and communion with the total soul of things. But the craving, when the mind is pent in to the hard facts, especially as science now reveals them, can breed pessimism, quite as easily as it breeds optimism when it inspires religious trust and fancy to wing their way to another and a better world.

That is why I call pessimism an essentially religious disease. The nightmare view of life has plenty of organic sources; but its great reflective source has at all times been the contradiction between the phenomena of nature and the craving of the heart to believe that behind nature there is a spirit whose expression nature is. What philosophers call 'natural theology' has been one way of appeasing this craving; that poetry of nature in which our English literature is so rich has been another way. Now, suppose a mind of the latter of our two classes, whose imagination is pent in consequently, and who takes its facts 'hard;' suppose it, moreover, to feel strongly the craving for communion, and yet to realize how desperately difficult it is to construe the scientific order of nature either theologically or poetically,—and what result can there be but inner discord and contradiction? Now, this inner discord (merely as discord) can be relieved in either of two ways: The longing to read the facts religiously may cease, and leave the bare facts by themselves; or, supplementary facts may be discovered or believed-in, which permit the religious reading to go on. These two ways of relief are the two stages of recovery, the two levels of escape from pessimism, to which I made allusion a moment ago, and which the sequel will, I trust, make more clear.

III

Starting then with nature, we naturally tend, if we have the religious craving, to say with Marcus Aurelius, "O Universe! what thou wishest I wish." Our sacred books and traditions tell us of one God who made heaven and earth, and, looking on them, saw that they were good. Yet, on more intimate acquaintance, the visible surfaces of heaven and earth refuse to be brought by us into any intelligible unity at all. Every phenomenon that we would praise there exists cheek by jowl with some contrary

phenomenon that cancels all its religious effect upon the mind. Beauty and hideousness, love and cruelty, life and death keep house together in indissoluble partnership; and there gradually steals over us, instead of the old warm notion of a man-loving Deity, that of an awful power that neither hates nor loves, but rolls all things together meaninglessly to a common doom. This is an uncanny, a sinister, a nightmare view of life, and its peculiar *unheimlichkeit*, or poisonousness, lies expressly in our holding two things together which cannot possibly agree,—in our clinging, on the one hand, to the demand that there shall be a living spirit of the whole; and, on the other, to the belief that the course of nature must be such a spirit's adequate manifestation and expression. It is in the contradiction between the supposed being of a spirit that encompasses and owns us, and with which we ought to have some communion, and the character of such a spirit as revealed by the visible world's course, that this particular death-in-life paradox and this melancholy-breeding puzzle reside, Carlyle expresses the result in that chapter of his immortal 'Sartor Resartus' entitled 'The Everlasting No.' "I lived," writes poor Teufelsdröckh, "in a continual, indefinite, pining fear; tremulous, pusillanimous, apprehensive of I knew not what: it seemed as if all things in the heavens above and the earth beneath would hurt me; as if the heavens and the earth were but boundless jaws of a devouring monster, wherein I, palpitating, lay waiting to be devoured."

This is the first stage of speculative melancholy. No brute can have this sort of melancholy; no man who is irreligious can become its prey. It is the sick shudder of the frustrated religious demand, and not the mere necessary outcome of animal experience. Teufelsdröckh himself could have made shift to face the general chaos and bedevilment of this world's experiences very well, were he not the victim of an originally unlimited trust and affection towards them. If he might meet them piecemeal, with no suspicion of any whole expressing itself in them, shunning the bitter parts and husbanding the sweet ones, as the occasion served, and as the day was foul or fair, he could have zigzagged toward an easy end, and felt no obligation to make the air vocal with his lamentations. The mood of levity, of 'I don't care,' is for this world's ills a sovereign and practical anaesthetic. But, no! something deep down in Teufelsdröckh and in the rest of us tells us that there *is* a Spirit in things to which we owe allegiance, and for whose sake we must keep up the serious mood. And so the inner fever and discord also are kept up; for nature taken on her visible surface reveals no such Spirit, and beyond the facts of nature we are at the present stage of our inquiry not supposing ourselves to look.

Now, I do not hesitate frankly and sincerely to confess to you that this real and genuine discord seems to me to carry with it the inevitable bankruptcy of natural religion naïvely and simply taken. There were times when Leibnitzes with their heads buried in monstrous wigs could compose Theodicies, and when stall-fed officials of an established church could prove by the valves in the heart and the round ligament of the hip-joint the existence of a "Moral and Intelligent Contriver of the World." But those times are past; and we of the nineteenth century, with our evolutionary theories and our mechanical philosophies, already know nature too impartially and too well to worship unreservedly any God of whose character she can be an adequate expression. Truly, all we know of good and duty proceeds from nature; but none the less so all we know of evil. Visible nature is all plasticity and indifference,—a moral multiverse, as one might call it, and not a moral universe. To such a harlot we owe no allegiance; with her as a whole we can establish no moral communion; and we are free in our dealings with her several parts to obey or destroy, and to follow no law but that of prudence in coming to terms with such other particular features as will help us to our private ends. If there be a divine Spirit of the universe, nature, such as we know her, cannot possibly be its *ultimate word* to man. Either there is no Spirit revealed in nature, or else it is inadequately revealed there; and (as all the higher religions have assumed) what we call visible nature, or *this* world, must be but a veil and surface-show whose full meaning resides in a supplementary unseen or *other* world.

I cannot help, therefore, accounting it on the whole a gain (though it may seem for certain poetic constitutions a very sad loss) that the naturalistic superstition, the worship of the God of nature, simply taken as such, should have begun to loosen its hold upon the educated mind. In fact, if I am to

express my personal opinion unreservedly, I should say (in spite of its sounding blasphemous at first to certain ears) that the initial step towards getting into healthy ultimate relations with the universe is the act of rebellion against the idea that such a God exists. Such rebellion essentially is that which in the chapter I have quoted from Carlyle goes on to describe:—

"Wherefore, like a coward, dost thou forever pip and whimper, and go cowering and trembling? Despicable biped!... Hast thou not a heart; canst thou not suffer whatsoever it be; and, as a Child of Freedom, though outcast, trample Tophet itself under thy feet, while it consumes thee? Let it come, then, I will meet it and defy it!" And as I so thought, there rushed like a stream of fire over my whole soul; and I shook base Fear away from me forever....

"Thus had the Everlasting No pealed authoritatively through all the recesses of my being, of my Me, and then was it that my whole Me stood up, in native God-created majesty, and recorded its Protest. Such a Protest, the most important transaction in life, may that same Indignation and Defiance, in a psychological point of view, be fitly called. The Everlasting No had said: 'Behold, thou art fatherless, outcast, and the Universe is mine;' to which my whole Me now made answer: 'I am not thine, but Free, and forever hate thee!' From that hour," Teufelsdröckh-Carlyle adds, "I began to be a man."

And our poor friend, James Thomson, similarly writes:—

"Who is most wretched in this dolorous place?
I think myself, yet I would rather be
My miserable self than He, than He
Who formed such creatures to his own disgrace.

The vilest thing must be less vile than Thou
From whom it had its being, God and Lord!
Creator of all woe and sin! abhorred,
Malignant and implacable! I vow

That not for all Thy power furl'd and unfurl'd,
For all the temples to Thy glory built,
Would I assume the ignominious guilt
Of having made such men in such a world."

We are familiar enough in this community with the spectacle of persons exulting in their emancipation from belief in the God of their ancestral Calvinism,—him who made the garden and the serpent, and pre-appointed the eternal fires of hell. Some of them have found humaner gods to worship, others are simply converts from all theology; but, both alike, they assure us that to have got rid of the sophistication of thinking they could feel any reverence or duty toward that impossible idol gave a tremendous happiness to their souls. Now, to make an idol of the spirit of nature, and worship it, also leads to sophistication; and in souls that are religious and would also be scientific the sophistication breeds a philosophical melancholy, from which the first natural step of escape is the denial of the idol; and with the downfall of the idol, whatever lack of positive joyousness may remain, there comes also the downfall of the whimpering and cowering mood. With evil simply taken as such, men can make short work, for their relations with it then are only practical. It looms up no longer so spectrally, it loses all its haunting and perplexing significance, as soon as the mind attacks the instances of it singly, and ceases to worry about their derivation from the 'one and only Power.'

Here, then, on this stage of mere emancipation from monistic superstition, the would-be suicide may already get encouraging answers to his question about the worth of life. There are in most men instinctive springs of vitality that respond healthily when the burden of metaphysical and infinite

responsibility rolls off. The certainty that you now *may* step out of life whenever you please, and that to do so is not blasphemous or monstrous, is itself an immense relief. The thought of suicide is now no longer a guilty challenge and obsession.

"This little life is all we must endure;
The grave's most holy peace is ever sure,"—

says Thomson; adding, "I ponder these thoughts, and they comfort me." Meanwhile we can always stand it for twenty-four hours longer, if only to see what to-morrow's newspaper will contain, or what the next postman will bring.

But far deeper forces than this mere vital curiosity are arousable, even in the pessimistically-tending mind; for where the loving and admiring impulses are dead, the hating and fighting impulses will still respond to fit appeals. This evil which we feel so deeply is something that we can also help to overthrow; for its sources, now that no 'Substance' or 'Spirit' is behind them, are finite, and we can deal with each of them in turn. It is, indeed, a remarkable fact that sufferings and hardships do not, as a rule, abate the love of life; they seem, on the contrary, usually to give it a keener zest. The sovereign source of melancholy is repletion. Need and struggle are what excite and inspire us; our hour of triumph is what brings the void. Not the Jews of the captivity, but those of the days of Solomon's glory are those from whom the pessimistic utterances in our Bible come. Germany, when she lay trampled beneath the hoofs of Bonaparte's troopers, produced perhaps the most optimistic and idealistic literature that the world has seen; and not till the French 'milliards' were distributed after 1871 did pessimism overrun the country in the shape in which we see it there to-day. The history of our own race is one long commentary on the cheerfulness that comes with fighting ills. Or take the Waldenses, of whom I lately have been reading, as examples of what strong men will endure. In 1483 a papal bull of Innocent VIII. enjoined their extermination. It absolved those who should take up the crusade against them from all ecclesiastical pains and penalties, released them from any oath, legitimized their title to all property which they might have illegally acquired, and promised remission of sins to all who should kill the heretics.

"There is no town in Piedmont," says a Vaudois writer, "where some of our brethren have not been put to death. Jordan Terbano was burnt alive at Susa; Hippolite Rossiero at Turin, Michael Goneto, an octogenarian, at Sarcena; Vilermin Ambrosio hanged on the Col di Meano; Hugo Chiambs, of Fenestrelle, had his entrails torn from his living body at Turin; Peter Geymarali of Bobbio in like manner had his entrails taken out in Lucerna, and a fierce cat thrust in their place to torture him further; Maria Romano was buried alive at Rocca Patia; Magdalena Fauno underwent the same fate at San Giovanni; Susanna Michelini was bound hand and foot, and left to perish of cold and hunger on the snow at Sarcena; Bartolomeo Fache, gashed with sabres, had the wounds filled up with quicklime, and perished thus in agony at Penile; Daniel Michelini had his tongue torn out at Bobbo for having praised God; James Baridari perished covered with sulphurous matches which had been forced into his flesh under the nails, between the fingers, in the nostrils, in the lips, and all over the body, and then lighted; Daniel Rovelli had his mouth filled with gunpowder, which, being lighted, blew his head to pieces;... Sara Rostignol was slit open from the legs to the bosom, and left so to perish on the road between Eyrat and Lucerna; Anna Charbonnier was impaled, and carried thus on a pike from San Giovanni to La Torre."⁸

Und dergleichen mehr! In 1630 the plague swept away one-half of the Vaudois population, including fifteen of their seventeen pastors. The places of these were supplied from Geneva and Dauphiny, and the whole Vaudois people learned French in order to follow their services. More than once their number fell, by unremitting persecution, from the normal standard of twenty-five thousand

⁸ Quoted by George E. Waring in his book on Tyrol. Compare A. Bérard: *Les Vaudois*, Lyon, Storck, 1892.

to about four thousand. In 1686 the Duke of Savoy ordered the three thousand that remained to give up their faith or leave the country. Refusing, they fought the French and Piedmontese armies till only eighty of their fighting men remained alive or uncaptured, when they gave up, and were sent in a body to Switzerland. But in 1689, encouraged by William of Orange and led by one of their pastor-captains, between eight hundred and nine hundred of them returned to conquer their old homes again. They fought their way to Bobi, reduced to four hundred men in the first half year, and met every force sent against them, until at last the Duke of Savoy, giving up his alliance with that abomination of desolation, Louis XIV., restored them to comparative freedom,—since which time they have increased and multiplied in their barren Alpine valleys to this day.

What are our woes and sufferance compared with these? Does not the recital of such a fight so obstinately waged against such odds fill us with resolution against our petty powers of darkness,—machine politicians, spoilsmen, and the rest? Life is worth living, no matter what it bring, if only such combats may be carried to successful terminations and one's heel set on the tyrant's throat. To the suicide, then, in his supposed world of multifarious and immoral nature, you can appeal—and appeal in the name of the very evils that make his heart sick there—to wait and see his part of the battle out. And the consent to live on, which you ask of him under these circumstances, is not the sophistical 'resignation' which devotees of cowering religions preach: it is not resignation in the sense of licking a despotic Deity's hand. It is, on the contrary, a resignation based on manliness and pride. So long as your would-be suicide leaves an evil of his own unremedied, so long he has strictly no concern with evil in the abstract and at large. The submission which you demand of yourself to the general fact of evil in the world, your apparent acquiescence in it, is here nothing but the conviction that evil at large is *none of your business* until your business with your private particular evils is liquidated and settled up. A challenge of this sort, with proper designation of detail, is one that need only be made to be accepted by men whose normal instincts are not decayed; and your reflective would-be suicide may easily be moved by it to face life with a certain interest again. The sentiment of honor is a very penetrating thing. When you and I, for instance, realize how many innocent beasts have had to suffer in cattle-cars and slaughter-pens and lay down their lives that we might grow up, all fattened and clad, to sit together here in comfort and carry on this discourse, it does, indeed, put our relation to the universe in a more solemn light. "Does not," as a young Amherst philosopher (Xenos Clark, now dead) once wrote, "the acceptance of a happy life upon such terms involve a point of honor?" Are we not bound to take some suffering upon ourselves, to do some self-denying service with our lives, in return for all those lives upon which ours are built? To hear this question is to answer it in but one possible way, if one have a normally constituted heart.

Thus, then, we see that mere instinctive curiosity, pugnacity, and honor may make life on a purely naturalistic basis seem worth living from day to day to men who have cast away all metaphysics in order to get rid of hypochondria, but who are resolved to owe nothing as yet to religion and its more positive gifts. A poor half-way stage, some of you may be inclined to say; but at least you must grant it to be an honest stage; and no man should dare to speak meanly of these instincts which are our nature's best equipment, and to which religion herself must in the last resort address her own peculiar appeals.

IV

And now, in turning to what religion may have to say to the question, I come to what is the soul of my discourse. Religion has meant many things in human history; but when from now onward I use the word I mean to use it in the supernaturalist sense, as declaring that the so-called order of nature, which constitutes this world's experience, is only one portion of the total universe, and that there stretches beyond this visible world an unseen world of which we now know nothing positive, but in its relation to which the true significance of our present mundane life consists. A man's religious

faith (whatever more special items of doctrine it may involve) means for me essentially his faith in the existence of an unseen order of some kind in which the riddles of the natural order may be found explained. In the more developed religions the natural world has always been regarded as the mere scaffolding or vestibule of a truer, more eternal world, and affirmed to be a sphere of education, trial, or redemption. In these religions, one must in some fashion die to the natural life before one can enter into life eternal. The notion that this physical world of wind and water, where the sun rises and the moon sets, is absolutely and ultimately the divinely aimed-at and established thing, is one which we find only in very early religions, such as that of the most primitive Jews. It is this natural religion (primitive still, in spite of the fact that poets and men of science whose good-will exceeds their perspicacity keep publishing it in new editions tuned to our contemporary ears) that, as I said a while ago, has suffered definitive bankruptcy in the opinion of a circle of persons, among whom I must count myself, and who are growing more numerous every day. For such persons the physical order of nature, taken simply as science knows it, cannot be held to reveal any one harmonious spiritual intent. It is mere *weather*, as Chauncey Wright called it, doing and undoing without end.

Now, I wish to make you feel, if I can in the short remainder of this hour, that we have a right to believe the physical order to be only a partial order; that we have a right to supplement it by an unseen spiritual order which we assume on trust, if only thereby life may seem to us better worth living again. But as such a trust will seem to some of you sadly mystical and execrably unscientific, I must first say a word or two to weaken the veto which you may consider that science opposes to our act.

There is included in human nature an ingrained naturalism and materialism of mind which can only admit facts that are actually tangible. Of this sort of mind the entity called 'science' is the idol. Fondness for the word 'scientist' is one of the notes by which you may know its votaries; and its short way of killing any opinion that it disbelieves in is to call it 'unscientific.' It must be granted that there is no slight excuse for this. Science has made such glorious leaps in the last three hundred years, and extended our knowledge of nature so enormously both in general and in detail; men of science, moreover, have as a class displayed such admirable virtues,—that it is no wonder if the worshippers of science lose their head. In this very University, accordingly, I have heard more than one teacher say that all the fundamental conceptions of truth have already been found by science, and that the future has only the details of the picture to fill in. But the slightest reflection on the real conditions will suffice to show how barbaric such notions are. They show such a lack of scientific imagination, that it is hard to see how one who is actively advancing any part of science can make a mistake so crude. Think how many absolutely new scientific conceptions have arisen in our own generation, how many new problems have been formulated that were never thought of before, and then cast an eye upon the brevity of science's career. It began with Galileo, not three hundred years ago. Four thinkers since Galileo, each informing his successor of what discoveries his own lifetime had seen achieved, might have passed the torch of science into our hands as we sit here in this room. Indeed, for the matter of that, an audience much smaller than the present one, an audience of some five or six score people, if each person in it could speak for his own generation, would carry us away to the black unknown of the human species, to days without a document or monument to tell their tale. Is it credible that such a mushroom knowledge, such a growth overnight as this, *can* represent more than the minutest glimpse of what the universe will really prove to be when adequately understood? No! our science is a drop, our ignorance a sea. Whatever else be certain, this at least is certain,—that the world of our present natural knowledge *is* enveloped in a larger world of *some* sort of whose residual properties we at present can frame no positive idea.

Agnostic positivism, of course, admits this principle theoretically in the most cordial terms, but insists that we must not turn it to any practical use. We have no right, this doctrine tells us, to dream dreams, or suppose anything about the unseen part of the universe, merely because to do so may be for what we are pleased to call our highest interests. We must always wait for sensible evidence for our beliefs; and where such evidence is inaccessible we must frame no hypotheses whatever. Of

course this is a safe enough position *in abstracto*. If a thinker had no stake in the unknown, no vital needs, to live or languish according to what the unseen world contained, a philosophic neutrality and refusal to believe either one way or the other would be his wisest cue. But, unfortunately, neutrality is not only inwardly difficult, it is also outwardly unrealizable, where our relations to an alternative are practical and vital. This is because, as the psychologists tell us, belief and doubt are living attitudes, and involve conduct on our part. Our only way, for example, of doubting, or refusing to believe, that a certain thing *is*, is continuing to act as if it were *not*. If, for instance, I refuse to believe that the room is getting cold, I leave the windows open and light no fire just as if it still were warm. If I doubt that you are worthy of my confidence, I keep you uninformed of all my secrets just as if you were *unworthy* of the same. If I doubt the need of insuring my house, I leave it uninsured as much as if I believed there were no need. And so if I must not believe that the world is divine, I can only express that refusal by declining ever to act distinctively as if it were so, which can only mean acting on certain critical occasions as if it were *not* so, or in an irreligious way. There are, you see, inevitable occasions in life when inaction is a kind of action, and must count as action, and when not to be for is to be practically against; and in all such cases strict and consistent neutrality is an unattainable thing.

And, after all, is not this duty of neutrality where only our inner interests would lead us to believe, the most ridiculous of commands? Is it not sheer dogmatic folly to say that our inner interests can have no real connection with the forces that the hidden world may contain? In other cases divinations based on inner interests have proved prophetic enough. Take science itself! Without an imperious inner demand on our part for ideal logical and mathematical harmonies, we should never have attained to proving that such harmonies be hidden between all the chinks and interstices of the crude natural world. Hardly a law has been established in science, hardly a fact ascertained, which was not first sought after, often with sweat and blood, to gratify an inner need. Whence such needs come from we do not know; we find them in us, and biological psychology so far only classes them with Darwin's 'accidental variations.' But the inner need of believing that this world of nature is a sign of something more spiritual and eternal than itself is just as strong and authoritative in those who feel it, as the inner need of uniform laws of causation ever can be in a professionally scientific head. The toil of many generations has proved the latter need prophetic. Why *may* not the former one be prophetic, too? And if needs of ours outrun the visible universe, why *may* not that be a sign that an invisible universe is there? What, in short, has authority to debar us from trusting our religious demands? Science as such assuredly has no authority, for she can only say what is, not what is not; and the agnostic "thou shalt not believe without coercive sensible evidence" is simply an expression (free to any one to make) of private personal appetite for evidence of a certain peculiar kind.

Now, when I speak of trusting our religious demands, just what do I mean by 'trusting'? Is the word to carry with it license to define in detail an invisible world, and to anathematize and excommunicate those whose trust is different? Certainly not! Our faculties of belief were not primarily given us to make orthodoxies and heresies withal; they were given us to live by. And to trust our religious demands means first of all to live in the light of them, and to act as if the invisible world which they suggest were real. It is a fact of human nature, that men can live and die by the help of a sort of faith that goes without a single dogma or definition. The bare assurance that this natural order is not ultimate but a mere sign or vision, the external staging of a many-storied universe, in which spiritual forces have the last word and are eternal,—this bare assurance is to such men enough to make life seem worth living in spite of every contrary presumption suggested by its circumstances on the natural plane. Destroy this inner assurance, however, vague as it is, and all the light and radiance of existence is extinguished for these persons at a stroke. Often enough the wild-eyed look at life—the suicidal mood—will then set in.

And now the application comes directly home to you and me. Probably to almost every one of us here the most adverse life would seem well worth living, if we only could be *certain* that our bravery and patience with it were terminating and eventuating and bearing fruit somewhere in an

unseen spiritual world. But granting we are not certain, does it then follow that a bare trust in such a world is a fool's paradise and lubberland, or rather that it is a living attitude in which we are free to indulge? Well, we are free to trust at our own risks anything that is not impossible, and that can bring analogies to bear in its behalf. That the world of physics is probably not absolute, all the converging multitude of arguments that make in favor of idealism tend to prove; and that our whole physical life may lie soaking in a spiritual atmosphere, a dimension of being that we at present have no organ for apprehending, is vividly suggested to us by the analogy of the life of our domestic animals. Our dogs, for example, are in our human life but not of it. They witness hourly the outward body of events whose inner meaning cannot, by any possible operation, be revealed to their intelligence,—events in which they themselves often play the cardinal part. My terrier bites a teasing boy, for example, and the father demands damages. The dog may be present at every step of the negotiations, and see the money paid, without an inkling of what it all means, without a suspicion that it has anything to do with *him*; and he never *can* know in his natural dog's life. Or take another case which used greatly to impress me in my medical-student days. Consider a poor dog whom they are vivisectioning in a laboratory. He lies strapped on a board and shrieking at his executioners, and to his own dark consciousness is literally in a sort of hell. He cannot see a single redeeming ray in the whole business; and yet all these diabolical-seeming events are often controlled by human intentions with which, if his poor benighted mind could only be made to catch a glimpse of them, all that is heroic in him would religiously acquiesce. Healing truth, relief to future sufferings of beast and man, are to be bought by them. It may be genuinely a process of redemption. Lying on his back on the board there he may be performing a function incalculably higher than any that prosperous canine life admits of; and yet, of the whole performance, this function is the one portion that must remain absolutely beyond his ken.

Now turn from this to the life of man. In the dog's life we see the world invisible to him because we live in both worlds. In human life, although we only see our world, and his within it, yet encompassing both these worlds a still wider world may be there, as unseen by us as our world is by him; and to believe in that world *may* be the most essential function that our lives in this world have to perform. But "*may* be! *may* be!" one now hears the positivist contemptuously exclaim; "what use can a scientific life have for maybes?" Well, I reply, the 'scientific' life itself has much to do with maybes, and human life at large has everything to do with them. So far as man stands for anything, and is productive or originative at all, his entire vital function may be said to have to deal with maybes. Not a victory is gained, not a deed of faithfulness or courage is done, except upon a maybe; not a service, not a sally of generosity, not a scientific exploration or experiment or text-book, that may not be a mistake. It is only by risking our persons from one hour to another that we live at all. And often enough our faith beforehand in an uncertified result *is the only thing that makes the result come true*. Suppose, for instance, that you are climbing a mountain, and have worked yourself into a position from which the only escape is by a terrible leap. Have faith that you can successfully make it, and your feet are nerved to its accomplishment. But mistrust yourself, and think of all the sweet things you have heard the scientists say of maybes, and you will hesitate so long that, at last, all unstrung and trembling, and launching yourself in a moment of despair, you roll in the abyss. In such a case (and it belongs to an enormous class), the part of wisdom as well as of courage is to *believe what is in the line of your needs*, for only by such belief is the need fulfilled. Refuse to believe, and you shall indeed be right, for you shall irretrievably perish. But believe, and again you shall be right, for you shall save yourself. You make one or the other of two possible universes true by your trust or mistrust,—both universes having been only *maybes*, in this particular, before you contributed your act.

Now, it appears to me that the question whether life is worth living is subject to conditions logically much like these. It does, indeed, depend on you *the liver*. If you surrender to the nightmare view and crown the evil edifice by your own suicide, you have indeed made a picture totally black. Pessimism, completed by your act, is true beyond a doubt, so far as your world goes. Your mistrust of life has removed whatever worth your own enduring existence might have given to it; and now,

throughout the whole sphere of possible influence of that existence, the mistrust has proved itself to have had divining power. But suppose, on the other hand, that instead of giving way to the nightmare view you cling to it that this world is not the *ultimatum*. Suppose you find yourself a very well-spring, as Wordsworth says, of—

"Zeal, and the virtue to exist by faith
As soldiers live by courage; as, by strength
Of heart, the sailor fights with roaring seas."

Suppose, however thickly evils crowd upon you, that your unconquerable subjectivity proves to be their match, and that you find a more wonderful joy than any passive pleasure can bring in trusting ever in the larger whole. Have you not now made life worth living on these terms? What sort of a thing would life really be, with your qualities ready for a tussle with it, if it only brought fair weather and gave these higher faculties of yours no scope? Please remember that optimism and pessimism are definitions of the world, and that our own reactions on the world, small as they are in bulk, are integral parts of the whole thing, and necessarily help to determine the definition. They may even be the decisive elements in determining the definition. A large mass can have its unstable equilibrium overturned by the addition of a feather's weight; a long phrase may have its sense reversed by the addition of the three letters *n-o-t*. This life is worth living, we can say, *since it is what we make it, from the moral point of view*; and we are determined to make it from that point of view, so far as we have anything to do with it, a success.

Now, in this description of faiths that verify themselves I have assumed that our faith in an invisible order is what inspires those efforts and that patience which make this visible order good for moral men. Our faith in the seen world's goodness (goodness now meaning fitness for successful moral and religious life) has verified itself by leaning on our faith in the unseen world. But will our faith in the unseen world similarly verify itself? Who knows?

Once more it is a case of *maybe*; and once more maybes are the essence of the situation. I confess that I do not see why the very existence of an invisible world may not in part depend on the personal response which any one of us may make to the religious appeal. God himself, in short, may draw vital strength and increase of very being from our fidelity. For my own part, I do not know what the sweat and blood and tragedy of this life mean, if they mean anything short of this. If this life be not a real fight, in which something is eternally gained for the universe by success, it is no better than a game of private theatricals from which one may withdraw at will. But it *feels* like a real fight,—as if there were something really wild in the universe which we, with all our idealities and faithfulnesses, are needed to redeem; and first of all to redeem our own hearts from atheisms and fears. For such a half-wild, half-saved universe our nature is adapted. The deepest thing in our nature is this *Binnenleben* (as a German doctor lately has called it), this dumb region of the heart in which we dwell alone with our willingnesses and unwillingnesses, our faiths and fears. As through the cracks and crannies of caverns those waters exude from the earth's bosom which then form the fountain-heads of springs, so in these crepuscular depths of personality the sources of all our outer deeds and decisions take their rise. Here is our deepest organ of communication with the nature of things; and compared with these concrete movements of our soul all abstract statements and scientific arguments—the veto, for example, which the strict positivist pronounces upon our faith—sound to us like mere chatterings of the teeth. For here possibilities, not finished facts, are the realities with which we have actively to deal; and to quote my friend William Salter, of the Philadelphia Ethical Society, "as the essence of courage is to stake one's life on a possibility, so the essence of faith is to believe that the possibility exists."

These, then, are my last words to you: Be not afraid of life. Believe that life *is* worth living, and your belief will help create the fact. The 'scientific proof' that you are right may not be clear

before the day of judgment (or some stage of being which that expression may serve to symbolize) is reached. But the faithful fighters of this hour, or the beings that then and there will represent them, may then turn to the faint-hearted, who here decline to go on, with words like those with which Henry IV. greeted the tardy Crillon after a great victory had been gained: "Hang yourself, brave Crillon! we fought at Arques, and you were not there."

THE SENTIMENT OF RATIONALITY.⁹

I

What is the task which philosophers set themselves to perform; and why do they philosophize at all? Almost every one will immediately reply: They desire to attain a conception of the frame of things which shall on the whole be more rational than that somewhat chaotic view which every one by nature carries about with him under his hat. But suppose this rational conception attained, how is the philosopher to recognize it for what it is, and not let it slip through ignorance? The only answer can be that he will recognize its rationality as he recognizes everything else, by certain subjective marks with which it affects him. When he gets the marks, he may know that he has got the rationality.

What, then, are the marks? A strong feeling of ease, peace, rest, is one of them. The transition from a state of puzzle and perplexity to rational comprehension is full of lively relief and pleasure.

But this relief seems to be a negative rather than a positive character. Shall we then say that the feeling of rationality is constituted merely by the absence of any feeling of irrationality? I think there are very good grounds for upholding such a view. All feeling whatever, in the light of certain recent psychological speculations, seems to depend for its physical condition not on simple discharge of nerve-currents, but on their discharge under arrest, impediment, or resistance. Just as we feel no particular pleasure when we breathe freely, but a very intense feeling of distress when the respiratory motions are prevented,—so any unobstructed tendency to action discharges itself without the production of much cogitative accompaniment, and any perfectly fluent course of thought awakens but little feeling; but when the movement is inhibited, or when the thought meets with difficulties, we experience distress. It is only when the distress is upon us that we can be said to strive, to crave, or to aspire. When enjoying plenary freedom either in the way of motion or of thought, we are in a sort of anaesthetic state in which we might say with Walt Whitman, if we cared to say anything about ourselves at such times, "I am sufficient as I am." This feeling of the sufficiency of the present moment, of its absoluteness,—this absence of all need to explain it, account for it, or justify it,—is what I call the Sentiment of Rationality. As soon, in short, as we are enabled from any cause whatever to think with perfect fluency, the thing we think of seems to us *pro tanto* rational.

Whatever modes of conceiving the cosmos facilitate this fluency, produce the sentiment of rationality. Conceived in such modes, being vouches for itself and needs no further philosophic formulation. But this fluency may be obtained in various ways; and first I will take up the theoretic way.

The facts of the world in their sensible diversity are always before us, but our theoretic need is that they should be conceived in a way that reduces their manifoldness to simplicity. Our pleasure at finding that a chaos of facts is the expression of a single underlying fact is like the relief of the musician at resolving a confused mass of sound into melodic or harmonic order. The simplified result is handled with far less mental effort than the original data; and a philosophic conception of nature is thus in no metaphorical sense a labor-saving contrivance. The passion for parsimony, for economy of means in thought, is the philosophic passion *par excellence*; and any character or aspect of the world's phenomena which gathers up their diversity into monotony will gratify that passion, and in the philosopher's mind stand for that essence of things compared with which all their other determinations may by him be overlooked.

⁹ This essay as far as page 75 consists of extracts from an article printed in *Mind* for July, 1879. Thereafter it is a reprint of an address to the Harvard Philosophical Club, delivered in 1880, and published in the *Princeton Review*, July, 1882.

More universality or extensiveness is, then, one mark which the philosopher's conceptions must possess. Unless they apply to an enormous number of cases they will not bring him relief. The knowledge of things by their causes, which is often given as a definition of rational knowledge, is useless to him unless the causes converge to a minimum number, while still producing the maximum number of effects. The more multiple then are the instances, the more flowingly does his mind rove from fact to fact. The phenomenal transitions are no real transitions; each item is the same old friend with a slightly altered dress.

Who does not feel the charm of thinking that the moon and the apple are, as far as their relation to the earth goes, identical; of knowing respiration and combustion to be one; of understanding that the balloon rises by the same law whereby the stone sinks; of feeling that the warmth in one's palm when one rubs one's sleeve is identical with the motion which the friction checks; of recognizing the difference between beast and fish to be only a higher degree of that between human father and son; of believing our strength when we climb the mountain or fell the tree to be no other than the strength of the sun's rays which made the corn grow out of which we got our morning meal?

But alongside of this passion for simplification there exists a sister passion, which in some minds—though they perhaps form the minority—is its rival. This is the passion for distinguishing; it is the impulse to be *acquainted* with the parts rather than to comprehend the whole. Loyalty to clearness and integrity of perception, dislike of blurred outlines, of vague identifications, are its characteristics. It loves to recognize particulars in their full completeness, and the more of these it can carry the happier it is. It prefers any amount of incoherence, abruptness, and fragmentariness (so long as the literal details of the separate facts are saved) to an abstract way of conceiving things that, while it simplifies them, dissolves away at the same time their concrete fulness. Clearness and simplicity thus set up rival claims, and make a real dilemma for the thinker.

A man's philosophic attitude is determined by the balance in him of these two cravings. No system of philosophy can hope to be universally accepted among men which grossly violates either need, or entirely subordinates the one to the other. The fate of Spinoza, with his barren union of all things in one substance, on the one hand; that of Hume, with his equally barren 'looseness and separateness' of everything, on the other,—neither philosopher owning any strict and systematic disciples to-day, each being to posterity a warning as well as a stimulus,—show us that the only possible philosophy must be a compromise between an abstract monotony and a concrete heterogeneity. But the only way to mediate between diversity and unity is to class the diverse items as cases of a common essence which you discover in them. Classification of things into extensive 'kinds' is thus the first step; and classification of their relations and conduct into extensive 'laws' is the last step, in their philosophic unification. A completed theoretic philosophy can thus never be anything more than a completed classification of the world's ingredients; and its results must always be abstract, since the basis of every classification is the abstract essence embedded in the living fact,—the rest of the living fact being for the time ignored by the classifier. This means that none of our explanations are complete. They subsume things under heads wider or more familiar; but the last heads, whether of things or of their connections, are mere abstract genera, data which we just find in things and write down.

When, for example, we think that we have rationally explained the connection of the facts *A* and *B* by classing both under their common attribute *x*, it is obvious that we have really explained only so much of these items as *is x*. To explain the connection of choke-damp and suffocation by the lack of oxygen is to leave untouched all the other peculiarities both of choke-damp and of suffocation,—such as convulsions and agony on the one hand, density and explosibility on the other. In a word, so far as *A* and *B* contain *l, m, n*, and *o, p, q*, respectively, in addition to *x*, they are not explained by *x*. Each additional particularity makes its distinct appeal. A single explanation of a fact only explains it from a single point of view. The entire fact is not accounted for until each and all of its characters have been classed with their likes elsewhere. To apply this now to the case of the universe, we see

that the explanation of the world by molecular movements explains it only so far as it actually *is* such movements. To invoke the 'Unknowable' explains only so much as is unknowable, 'Thought' only so much as is thought, 'God' only so much as is God. *Which* thought? *Which* God?—are questions that have to be answered by bringing in again the residual data from which the general term was abstracted. All those data that cannot be analytically identified with the attribute invoked as universal principle, remain as independent kinds or natures, associated empirically with the said attribute but devoid of rational kinship with it.

Hence the unsatisfactoriness of all our speculations. On the one hand, so far as they retain any multiplicity in their terms, they fail to get us out of the empirical sand-heap world; on the other, so far as they eliminate multiplicity the practical man despises their empty barrenness. The most they can say is that the elements of the world are such and such, and that each is identical with itself wherever found; but the question Where is it found? the practical man is left to answer by his own wit. Which, of all the essences, shall here and now be held the essence of this concrete thing, the fundamental philosophy never attempts to decide. We are thus led to the conclusion that the simple classification of things is, on the one hand, the best possible theoretic philosophy, but is, on the other, a most miserable and inadequate substitute for the fulness of the truth. It is a monstrous abridgment of life, which, like all abridgments is got by the absolute loss and casting out of real matter. This is why so few human beings truly care for philosophy. The particular determinations which she ignores are the real matter exciting needs, quite as potent and authoritative as hers. What does the moral enthusiast care for philosophical ethics? Why does the *AEsthetik* of every German philosopher appear to the artist an abomination of desolation?

Grau, theurer Freund, ist alle Theorie
Und grün des Lebens goldner Baum.

The entire man, who feels all needs by turns, will take nothing as an equivalent for life but the fulness of living itself. Since the essences of things are as a matter of fact disseminated through the whole extent of time and space, it is in their spread-outness and alternation that he will enjoy them. When weary of the concrete clash and dust and pettiness, he will refresh himself by a bath in the eternal springs, or fortify himself by a look at the immutable natures. But he will only be a visitor, not a dweller in the region; he will never carry the philosophic yoke upon his shoulders, and when tired of the gray monotony of her problems and insipid spaciousness of her results, will always escape gleefully into the teeming and dramatic richness of the concrete world.

So our study turns back here to its beginning. Every way of classifying a thing is but a way of handling it for some particular purpose. Conceptions, 'kinds,' are teleological instruments. No abstract concept can be a valid substitute for a concrete reality except with reference to a particular interest in the conceiver. The interest of theoretic rationality, the relief of identification, is but one of a thousand human purposes. When others rear their heads, it must pack up its little bundle and retire till its turn recurs. The exaggerated dignity and value that philosophers have claimed for their solutions is thus greatly reduced. The only virtue their theoretic conception need have is simplicity, and a simple conception is an equivalent for the world only so far as the world is simple,—the world meanwhile, whatever simplicity it may harbor, being also a mightily complex affair. Enough simplicity remains, however, and enough urgency in our craving to reach it, to make the theoretic function one of the most invincible of human impulses. The quest of the fewest elements of things is an ideal that some will follow, as long as there are men to think at all.

But suppose the goal attained. Suppose that at last we have a system unified in the sense that has been explained. Our world can now be conceived simply, and our mind enjoys the relief. Our universal concept has made the concrete chaos rational. But now I ask, Can that which is the ground of rationality in all else be itself properly called rational? It would seem at first sight that it might. One

is tempted at any rate to say that, since the craving for rationality is appeased by the identification of one thing with another, a datum which left nothing else outstanding might quench that craving definitively, or be rational *in se*. No otherness being left to annoy us, we should sit down at peace. In other words, as the theoretic tranquillity of the boor results from his spinning no further considerations about his chaotic universe, so any datum whatever (provided it were simple, clear, and ultimate) ought to banish puzzle from the universe of the philosopher and confer peace, inasmuch as there would then be for him absolutely no further considerations to spin.

This in fact is what some persons think. Professor Bain says,—

"A difficulty is solved, a mystery unriddled, when it can be shown to resemble something else; to be an example of a fact already known. Mystery is isolation, exception, or it may be apparent contradiction: the resolution of the mystery is found in assimilation, identity, fraternity. When all things are assimilated, so far as assimilation can go, so far as likeness holds, there is an end to explanation; there is an end to what the mind can do, or can intelligently desire.... The path of science as exhibited in modern ages is toward generality, wider and wider, until we reach the highest, the widest laws of every department of things; there explanation is finished, mystery ends, perfect vision is gained."

But, unfortunately, this first answer will not hold. Our mind is so wedded to the process of seeing an *other* beside every item of its experience, that when the notion of an absolute datum is presented to it, it goes through its usual procedure and remains pointing at the void beyond, as if in that lay further matter for contemplation. In short, it spins for itself the further positive consideration of a nonentity enveloping the being of its datum; and as that leads nowhere, back recoils the thought toward its datum again. But there is no natural bridge between nonentity and this particular datum, and the thought stands oscillating to and fro, wondering "Why was there anything but nonentity; why just this universal datum and not another?" and finds no end, in wandering mazes lost. Indeed, Bain's words are so untrue that in reflecting men it is just when the attempt to fuse the manifold into a single totality has been most successful, when the conception of the universe as a unique fact is nearest its perfection, that the craving for further explanation, the ontological wonder-sickness, arises in its extremest form. As Schopenhauer says, "The uneasiness which keeps the never-resting clock of metaphysics in motion, is the consciousness that the non-existence of this world is just as possible as its existence."

The notion of nonentity may thus be called the parent of the philosophic craving in its subtlest and profoundest sense. Absolute existence is absolute mystery, for its relations with the nothing remain unmediated to our understanding. One philosopher only has pretended to throw a logical bridge over this chasm. Hegel, by trying to show that nonentity and concrete being are linked together by a series of identities of a synthetic kind, binds everything conceivable into a unity, with no outlying notion to disturb the free rotary circulation of the mind within its bounds. Since such unchecked movement gives the feeling of rationality, he must be held, if he has succeeded, to have eternally and absolutely quenched all rational demands.

But for those who deem Hegel's heroic effort to have failed, nought remains but to confess that when all things have been unified to the supreme degree, the notion of a possible other than the actual may still haunt our imagination and prey upon our system. The bottom of being is left logically opaque to us, as something which we simply come upon and find, and about which (if we wish to act) we should pause and wonder as little as possible. The philosopher's logical tranquillity is thus in essence no other than the boor's. They differ only as to the point at which each refuses to let further considerations upset the absoluteness of the data he assumes. The boor does so immediately, and is liable at any moment to the ravages of many kinds of doubt. The philosopher does not do so till unity has been reached, and is warranted against the inroads of those considerations, but only practically, not essentially, secure from the blighting breath of the ultimate Why? If he cannot exorcise this question, he must ignore or blink it, and, assuming the data of his system as something given, and

the gift as ultimate, simply proceed to a life of contemplation or of action based on it. There is no doubt that this acting on an opaque necessity is accompanied by a certain pleasure. See the reverence of Carlyle for brute fact: "There is an infinite significance in fact." "Necessity," says Dühring, and he means not rational but given necessity, "is the last and highest point that we can reach.... It is not only the interest of ultimate and definitive knowledge, but also that of the feelings, to find a last repose and an ideal equilibrium in an uttermost datum which can simply not be other than it is."

Such is the attitude of ordinary men in their theism, God's fiat being in physics and morals such an uttermost datum. Such also is the attitude of all hard-minded analysts and *Verstandesmenschen*. Lotze, Renouvier, and Hodgson promptly say that of experience as a whole no account can be given, but neither seek to soften the abruptness of the confession nor to reconcile us with our impotence.

But mediating attempts may be made by more mystical minds. The peace of rationality may be sought through ecstasy when logic fails. To religious persons of every shade of doctrine moments come when the world, as it is, seems so divinely orderly, and the acceptance of it by the heart so rapturously complete, that intellectual questions vanish; nay, the intellect itself is hushed to sleep,—as Wordsworth says, "thought is not; in enjoyment it expires." Ontological emotion so fills the soul that ontological speculation can no longer overlap it and put her girdle of interrogation-marks round existence. Even the least religious of men must have felt with Walt Whitman, when loafing on the grass on some transparent summer morning, that "swiftly arose and spread round him the peace and knowledge that pass all the argument of the earth." At such moments of energetic living we feel as if there were something diseased and contemptible, yea vile, in theoretic grubbing and brooding. In the eye of healthy sense the philosopher is at best a learned fool.

Since the heart can thus wall out the ultimate irrationality which the head ascertains, the erection of its procedure into a systematized method would be a philosophic achievement of first-rate importance. But as used by mystics hitherto it has lacked universality, being available for few persons and at few times, and even in these being apt to be followed by fits of reaction and dryness; and if men should agree that the mystical method is a subterfuge without logical pertinency, a plaster but no cure, and that the idea of non-entity can never be exorcised, empiricism will be the ultimate philosophy. Existence then will be a brute fact to which as a whole the emotion of ontologic wonder shall rightfully cleave, but remain eternally unsatisfied. Then wonderfulness or mysteriousness will be an essential attribute of the nature of things, and the exhibition and emphasizing of it will continue to be an ingredient in the philosophic industry of the race. Every generation will produce its Job, its Hamlet, its Faust, or its Sartor Resartus.

With this we seem to have considered the possibilities of purely theoretic rationality. But we saw at the outset that rationality meant only unimpeded mental function. Impediments that arise in the theoretic sphere might perhaps be avoided if the stream of mental action should leave that sphere betimes and pass into the practical. Let us therefore inquire what constitutes the feeling of rationality in its *practical* aspect. If thought is not to stand forever pointing at the universe in wonder, if its movement is to be diverted from the issueless channel of purely theoretic contemplation, let us ask what conception of the universe will awaken active impulses capable of effecting this diversion. A definition of the world which will give back to the mind the free motion which has been blocked in the purely contemplative path may so far make the world seem rational again.

Well, of two conceptions equally fit to satisfy the logical demand, that one which awakens the active impulses, or satisfies other aesthetic demands better than the other, will be accounted the more rational conception, and will deservedly prevail.

There is nothing improbable in the supposition that an analysis of the world may yield a number of formulae, all consistent with the facts. In physical science different formulae may explain the phenomena equally well,—the one-fluid and the two-fluid theories of electricity, for example. Why may it not be so with the world? Why may there not be different points of view for surveying it, within each of which all data harmonize, and which the observer may therefore either choose between,

or simply cumulate one upon another? A Beethoven string-quartet is truly, as some one has said, a scraping of horses' tails on cats' bowels, and may be exhaustively described in such terms; but the application of this description in no way precludes the simultaneous applicability of an entirely different description. Just so a thorough-going interpretation of the world in terms of mechanical sequence is compatible with its being interpreted teleologically, for the mechanism itself may be designed.

If, then, there were several systems excogitated, equally satisfying to our purely logical needs, they would still have to be passed in review, and approved or rejected by our aesthetic and practical nature. Can we define the tests of rationality which these parts of our nature would use?

Philosophers long ago observed the remarkable fact that mere familiarity with things is able to produce a feeling of their rationality. The empiricist school has been so much struck by this circumstance as to have laid it down that the feeling of rationality and the feeling of familiarity are one and the same thing, and that no other kind of rationality than this exists. The daily contemplation of phenomena juxtaposed in a certain order begets an acceptance of their connection, as absolute as the repose engendered by theoretic insight into their coherence. To explain a thing is to pass easily back to its antecedents; to know it is easily to foresee its consequents. Custom, which lets us do both, is thus the source of whatever rationality the thing may gain in our thought.

In the broad sense in which rationality was defined at the outset of this essay, it is perfectly apparent that custom must be one of its factors. We said that any perfectly fluent and easy thought was devoid of the sentiment of irrationality. Inasmuch then as custom acquaints us with all the relations of a thing, it teaches us to pass fluently from that thing to others, and *pro tanto* tinges it with the rational character.

Now, there is one particular relation of greater practical importance than all the rest,—I mean the relation of a thing to its future consequences. So long as an object is unusual, our expectations are baffled; they are fully determined as soon as it becomes familiar. I therefore propose this as the first practical requisite which a philosophic conception must satisfy: *It must, in a general way at least, banish uncertainty from the future.* The permanent presence of the sense of futurity in the mind has been strangely ignored by most writers, but the fact is that our consciousness at a given moment is never free from the ingredient of expectancy. Every one knows how when a painful thing has to be undergone in the near future, the vague feeling that it is impending penetrates all our thought with uneasiness and subtly vitiates our mood even when it does not control our attention; it keeps us from being at rest, at home in the given present. The same is true when a great happiness awaits us. But when the future is neutral and perfectly certain, 'we do not mind it,' as we say, but give an undisturbed attention to the actual. Let now this haunting sense of futurity be thrown off its bearings or left without an object, and immediately uneasiness takes possession of the mind. But in every novel or unclassified experience this is just what occurs; we do not know what will come next; and novelty *per se*

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