

## CHAPTER I.

### CONDUCT IN GENERAL.

§ 1. The doctrine that correlatives imply one another—that a father cannot be thought of without thinking of a child, and that there can be no consciousness of superior without a consciousness of inferior—has for one of its common examples the necessary connexion between the conceptions of whole and part. Beyond the primary truth that no idea of a whole can be framed without a nascent idea of parts constituting it, and that no idea of a part can be framed without a nascent idea of some whole to which it belongs, there is the secondary truth that there can be no correct idea of a part without a correct idea of the correlative whole. There are several ways in which inadequate knowledge of the one involves inadequate knowledge of the other.

If the part is conceived without any reference to the whole, it becomes itself a whole—an independent entity; and its relations to existence in general are misapprehended. Further, the size of the part as compared with the size of the whole, must be misapprehended unless the whole is not only recognized as including it, but is figured in its total extent. And again, the position which the part occupies in relation to other parts, cannot be rightly conceived unless there is some conception of the whole in its distribution as well as in its amount.

Still more when part and whole, instead of being statically related only, are dynamically related, must there be a general understanding of the whole before the part can be understood. By a savage who has never seen a vehicle, no idea can be formed of the use and action of a wheel. To the unsymmetrically-pierced disk of an eccentric, no place or purpose can be ascribed by a rustic unacquainted with machinery. Even a mechanic, if he has never looked into a piano, will, if shown a damper, be unable to conceive its function or relative value.

Most of all, however, where the whole is organic, does complete comprehension of a part imply extensive comprehension of the whole. Suppose a being ignorant of the human body to find a detached arm. If not misconceived by him as a supposed whole, instead of being conceived as a part, still its relations to other parts, and its structure, would be wholly inexplicable. Admitting that the co-operation of its bones and muscles might be divined, yet no thought could be framed of the share taken by the arm in the actions of the unknown whole it belonged to; nor could any interpretation be put upon the nerves and vessels ramifying through it, which severally refer to certain central organs. A theory of the structure of the arm implies a theory of the structure of the body at large.

And this truth holds not of material aggregates only, but of immaterial aggregates—aggregated motions, deeds, thoughts, words. The Moon's movements cannot be fully interpreted without taking into account the movements of the Solar System at large. The process of loading a gun is meaningless until the subsequent actions performed with the gun are known. A fragment of a sentence, if not unintelligible, is wrongly interpreted in the absence of the remainder. Cut off its beginning and end, and the rest of a demonstration proves nothing. Evidence given by a plaintiff often misleads until the evidence which the defendant produces is joined with it.

§ 2. Conduct is a whole ; and, in a sense, it is an organic whole—an aggregate of inter-dependent actions performed by an organism. That division or aspect of conduct with which Ethics deals, is a part of this organic whole—a part having its components inextricably bound up with the rest. As currently conceived, stirring the fire, or reading a newspaper, or eating a meal, are acts with which Morality has no concern. Opening the window to air the room, putting on an overcoat when the weather is cold, are thought of as having no ethical significance. These, however, are all portions of conduct. The behaviour we call good and the behaviour we call bad, are included, along with the behaviour we call indifferent, under the conception of behaviour at large. The whole of which Ethics forms a part, is the whole constituted by the theory of conduct in general ; and this whole must be understood before the part can be understood. Let us consider this proposition more closely.

And first, how shall we define conduct? It is not co-extensive with the aggregate of actions, though it is nearly so. Such actions as those of an epileptic in a fit, are not included in our conception of conduct: the conception excludes purposeless actions. And in recognizing this exclusion, we simultaneously recognize all that is included. The definition of conduct which emerges is either—acts adjusted to ends, or else—the adjustment of acts to ends; according as we contemplate the formed body of acts, or think of the form alone. And conduct in its full acceptation must be taken as comprehending all adjustments of acts to ends, from the simplest to the most complex, whatever their special natures and whether considered separately or in their totality.

Conduct in general being thus distinguished from the somewhat larger whole constituted by actions in general, let us next ask what distinction is habitually made between the conduct on which ethical judgments are passed and the remainder of conduct. As already said, a large part of

ordinary conduct is indifferent. Shall I walk to the waterfall to-day? or shall I ramble along the sea-shore? Here the ends are ethically indifferent. If I go to the waterfall, shall I go over the moor or take the path through the wood? Here the means are ethically indifferent. And from hour to hour most of the things we do are not to be judged as either good or bad in respect of either ends or means.

No less clear is it that the transition from indifferent acts to acts which are good or bad is gradual. If a friend who is with me has explored the sea-shore but has not seen the waterfall, the choice of one or other end is no longer ethically indifferent. And if, the waterfall being fixed on as our goal, the way over the moor is too long for his strength, while the shorter way through the wood is not, the choice of means is no longer ethically indifferent. Again, if a probable result of making the one excursion rather than the other, is that I shall not be back in time to keep an appointment, or if taking the longer route entails this risk while taking the shorter does not, the decision in favour of one or other end or means acquires in another way an ethical character; and if the appointment is one of some importance, or one of great importance, or one of life-and-death importance, to self or others, the ethical character becomes pronounced. These instances will sufficiently suggest the truth that conduct with which Morality is not concerned, passes into conduct which is moral or immoral, by small degrees and in countless ways.

But the conduct that has to be conceived scientifically before we can scientifically conceive those modes of conduct which are the objects of ethical judgments, is a conduct immensely wider in range than that just indicated. Complete comprehension of conduct is not to be obtained by contemplating the conduct of human beings only: we have to regard this as a part of universal conduct—conduct as exhibited by all living creatures. For evidently this comes within our definition—acts adjusted to ends. The con-

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duct of the higher animals as compared with that of man, and the conduct of the lower animals as compared with that of the higher, mainly differ in this, that the adjustments of acts to ends are relatively simple and relatively incomplete. And as in other cases, so in this case, we must interpret the more developed by the less developed. Just as, fully to understand the part of conduct which Ethics deals with, we must study human conduct as a whole; so, fully to understand human conduct as a whole, we must study it as a part of that larger whole constituted by the conduct of animate beings in general.

Nor is even this whole conceived with the needful fulness, so long as we think only of the conduct at present displayed around us. We have to include in our conception the less-developed conduct out of which this has arisen in course of time. We have to regard the conduct now shown us by creatures of all orders, as an outcome of the conduct which has brought life of every kind to its present height. And this is tantamount to saying that our preparatory step must be to study the evolution of conduct.

## CHAPTER II.

### THE EVOLUTION OF CONDUCT.

§ 3. We have become quite familiar with the idea of an evolution of structures throughout the ascending types of animals. To a considerable degree we have become familiar with the thought that an evolution of functions has gone on *pari passu* with the evolution of structures. Now advancing a step, we have to frame a conception of the evolution of conduct, as correlated with this evolution of structures and functions.

These three subjects are to be definitely distinguished. Obviously the facts comparative morphology sets forth, form a whole which, though it cannot be treated in general or in detail without taking into account facts belonging to comparative physiology, is essentially independent. No less clear is it that we may devote our attention exclusively to that progressive differentiation of functions, and combination of functions, which accompanies the development of structures—may say no more about the characters and connexions of organs than is implied in describing their separate and joint actions. And the subject of conduct lies outside the subject of functions, if not as far as this lies outside the subject of structures, still, far enough to make it substantially separate. For those functions which are already variously compounded to achieve what we regard as single bodily acts, are endlessly re-compounded

to achieve that co-ordination of bodily acts which is known as conduct.

We are concerned with functions in the true sense, while we think of them as processes carried on within the body; and, without exceeding the limits of physiology, we may treat of their adjusted combinations, so long as these are regarded as parts of the vital *consensus*. If we observe how the lungs aërate the blood which the heart sends to them; how heart and lungs together supply aërated blood to the stomach, and so enable it to do its work; how these co-operate with sundry secreting and excreting glands to further digestion and to remove waste matter; and how all of them join to keep the brain in a fit condition for carrying on those actions which indirectly conduce to maintenance of the life at large; we are dealing with functions. Even when considering how parts that act directly on the environment—legs, arms, wings—perform their duties, we are still concerned with functions in that aspect of them constituting physiology, so long as we restrict our attention to internal processes, and to internal combinations of them. But we enter on the subject of conduct when we begin to study such combinations among the actions of sensory and motor organs as are externally manifested. Suppose that instead of observing those contractions of muscles by which the optic axes are converged and the foci of the eyes adjusted (which is a portion of physiology), and that instead of observing the co-operation of other nerves, muscles, and bones, by which a hand is moved to a particular place and the fingers closed (which is also a portion of physiology), we observe a weapon being seized by a hand under guidance of the eyes. We now pass from the thought of combined internal functions to the thought of combined external motions. Doubtless if we could trace the cerebral processes which accompany these, we should find an inner physiological co-ordination corresponding with the outer co-ordination of actions. But this admission is consistent with the

assertion, that when we ignore the internal combination and attend only to the external combination, we pass from a portion of physiology to a portion of conduct. For though it may be objected that the external combination instanced, is too simple to be rightly included under the name conduct, yet a moment's thought shows that it is joined with what we call conduct by insensible gradations. Suppose the weapon seized is used to ward off a blow. Suppose a counter-blow is given. Suppose the aggressor runs and is chased. Suppose there comes a struggle and a handing him over to the police. Suppose there follow the many and varied acts constituting a prosecution. Obviously the initial adjustment of an act to an end, inseparable from the rest, must be included with them under the same general head; and obviously from this initial simple adjustment, having intrinsically no moral character, we pass by degrees to the most complex adjustments and to those on which moral judgments are passed.

Hence, excluding all internal co-ordinations, our subject here is the aggregate of all external co-ordinations; and this aggregate includes not only the simplest as well as the most complex performed by human beings, but also those performed by all inferior beings considered as less or more evolved.

§ 4. Already the question—What constitutes advance in the evolution of conduct, as we trace it up from the lowest types of living creatures to the highest? has been answered by implication. A few examples will now bring the answer into conspicuous relief.

We saw that conduct is distinguished from the totality of actions by excluding purposeless actions; but during evolution this distinction arises by degrees. In the very lowest creatures most of the movements from moment to moment made, have not more recognizable aims than have the struggles of an epileptic. An infusorium swims randomly

about, determined in its course not by a perceived object to be pursued or escaped, but, apparently, by varying stimuli in its medium; and its acts, unadjusted in any appreciable way to ends, lead it now into contact with some nutritive substance which it absorbs, and now into the neighbourhood of some creature by which it is swallowed and digested. Lacking those developed senses and motor powers which higher animals possess, ninety-nine in the hundred of these minute animals, severally living for but a few hours, disappear either by innutrition or by destruction. The conduct is constituted of actions so little adjusted to ends, that life continues only as long as the accidents of the environment are favourable. But when, among aquatic creatures, we observe one which, though still low in type, is much higher than the infusorium—say a rotifer—we see how, along with larger size, more developed structures, and greater power of combining functions, there goes an advance in conduct. We see how by its whirling cilia it sucks in as food these small animals moving around; how by its prehensile tail it fixes itself to some fit object; how by withdrawing its outer organs and contracting its body, it preserves itself from this or that injury from time to time threatened; and how thus, by better adjusting its own actions, it becomes less dependent on the actions going on around, and so preserves itself for a longer period.

A superior sub-kingdom, as the Mollusca, still better exemplifies this contrast. When we compare a low mollusc, such as a floating ascidian, with a high mollusc, such as a cephalopod, we are again shown that greater organic evolution is accompanied by more evolved conduct. At the mercy of every marine creature large enough to swallow it, and drifted about by currents which may chance to keep it at sea or may chance to leave it fatally stranded, the ascidian displays but little adjustment of acts to ends in comparison with the cephalopod; which, now crawling over the beach, now exploring the rocky crevices, now swimming

through the open water, now darting after a fish, now hiding itself from some larger animal in a cloud of ink, and using its suckered arms at one time for anchoring itself and at another for holding fast its prey; selects, and combines, and proportions, its movements from minute to minute, so as to evade dangers which threaten, while utilizing chances of food which offer: so showing us varied activities which, in achieving special ends, achieve the general end of securing continuance of the activities.

Among vertebrate animals we similarly trace up, along with advance in structures and functions, this advance in conduct. A fish roaming about at hazard in search of something to eat, able to detect it by smell or sight only within short distances, and now and again rushing away in alarm on the approach of a bigger fish, makes adjustments of acts to ends that are relatively few and simple in their kinds; and shows us, as a consequence, how small is the average duration of life. So few survive to maturity that, to make up for destruction of unhatched young and small fry and half-grown individuals, a million ova have to be spawned by a cod-fish that two may reach the spawning age. Conversely, by a highly-evolved mammal, such as an elephant, those general actions performed in common with the fish are far better adjusted to their ends. By sight as well, probably, as by odour, it detects food at relatively great distances; and when, at intervals, there arises a need for escape, relatively-great speed is attained. But the chief difference arises from the addition of new sets of adjustments. We have combined actions which facilitate nutrition—the breaking off of succulent and fruit-bearing branches, the selecting of edible growths throughout a comparatively wide reach; and, in case of danger, safety can be achieved not by flight only, but, if necessary, by defence or attack: bringing into combined use tusks, trunk, and ponderous feet. Further, we see various subsidiary acts adjusted to subsidiary ends—now the going into a river for coolness, and using the