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Sketches Of The History Of Man

In Two Volumes

Home, Henry

Edinburgh, 1774

Chap. V. Account of the remaining books of the Organon.

urn:nbn:de:gbv:45:1-697

C H A P. V.

Account of the remaining books of the Organon.

SECT. I. *Of the Last Analytics.*

IN the First Analytics, fyllogifms are confidered in refpect of their form; they are now to be confidered in refpect of their matter. The form lies in the neceffary connection between the premifes and the conclufion; and where fuch a connection is wanting, they are faid to be informal, or vicious in point of form.

But where there is no fault in the form, there may be in the matter; that is, in the propofitions of which they are compofed, which may be true or falfe, probable or improbable.

When the premifes are certain, and the conclufion drawn from them in due form, this is demonftration, and produces fcience. Such fyllogifms are called *apodictical*; and are handled in the two books of the Laft Analytics. When the premifes are not certain, but probable only, fuch fyllogifms are called *dialectical*; and of them he treats in the eight books of the Topicks. But there are fome fyllogifms which feem to be perfect both in matter and form, when they are not really fo: as, a face may feem beautiful which is but painted. Thefe being apt to deceive, and produce a falfe opinion, are called *sophifical*; and they are the fubject of the book concerning Sophifms.

To return to the Laft Analytics, which treat of demonftration



and of science: We shall not pretend to abridge those books; for Aristotle's writings do not admit of abridgement: no man can say what he says in fewer words; and he is not often guilty of repetition. We shall only give some of his capital conclusions, omitting his long reasonings and nice distinctions, of which his genius was wonderfully productive.

All demonstration must be built upon principles already known; and these upon others of the same kind; until we come at last to first principles, which neither can be demonstrated, nor need to be, being evident of themselves.

We cannot demonstrate things in a circle, supporting the conclusion by the premises, and the premises again by the conclusion. Nor can there be an infinite number of middle terms between the first principle and the conclusion.

In all demonstration, the first principles, the conclusion, and all the intermediate propositions, must be necessary, general, and eternal truths: for of things fortuitous, contingent, or mutable, or of individual things, there is no demonstration.

Some demonstrations prove only, that the thing is thus affected; others prove, why it is thus affected. The former may be drawn from a remote cause, or from an effect: but the latter must be drawn from an immediate cause; and are the most perfect.

The first figure is best adapted to demonstration, because it affords conclusions universally affirmative; and this figure is commonly used by the mathematicians.

The demonstration of an affirmative proposition is preferable to that of a negative; the demonstration of an universal to that of a particular; and direct demonstration to that *ad absurdum*.

The principles are more certain than the conclusion.

There cannot be opinion and science of the same thing at the same time.

In the second book we are taught, that the questions that may be

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be put, with regard to any thing, are four: 1. Whether the thing be thus affected. 2. Why it is thus affected. 3. Whether it exists. 4. What it is.

The last of these questions Aristotle, in good Greek, calls the *What is it* of a thing. The schoolmen, in very barbarous Latin, called this, the *quiddity* of a thing. This quiddity, he proves by many arguments, cannot be demonstrated, but must be fixed by a definition. This gives occasion to treat of definition, and how a right definition should be formed. As an example he gives a definition of the number *three*, and defines it to be the first odd number.

In this book he treats also of the four kinds of causes; efficient, material, formal, and final.

Another thing treated of in this book is, the manner in which we acquire first principles, which are the foundation of all demonstration. These are not innate, because we may be for a great part of life ignorant of them: nor can they be deduced demonstratively from any antecedent knowledge, otherwise they would not be first principles. Therefore he concludes, that first principles are got by induction, from the informations of sense. The senses give us informations of individual things, and from these by induction we draw general conclusions: for it is a maxim with Aristotle, That there is nothing in the understanding which was not before in some sense.

The knowledge of first principles, as it is not acquired by demonstration, ought not to be called science; and therefore he calls it *intelligence*.

SECT.



SECT. 2. *Of the Topics.*

The professed design of the Topics is, to shew a method by which a man may be able to reason with probability and consistency upon every question that may occur.

Every question is either about the genus of the subject, or its specific difference, or some thing proper to it, or something accidental.

To prove that this division is complete, Aristotle reasons thus: Whatever is attributed to a subject, it must either be, that the subject can be reciprocally attributed to it, or that it cannot. If the subject and attribute can be reciprocated, the attribute either declares what the subject is, and then it is a definition; or it does not declare what the subject is, and then it is a property. If the attribute cannot be reciprocated, it must be something contained in the definition, or not. If it is contained in the definition of the subject, it must be the genus of the subject, or its specific difference; for the definition consists of these two. If it is not contained in the definition of the subject, it must be an accident.

The furniture proper to fit a man for arguing dialectically may be reduced to these four heads: 1. Probable propositions of all sorts, which may on occasion be assumed in an argument. 2. Distinctions of words which are nearly of the same signification. 3. Distinctions of things which are not so far asunder but that they may be taken for one and the same. 4. Similitudes.

The second and the five following books are taken up in enumerating the topics or heads of argument that may be used in questions about the genus, the definition, the properties, and the accidents of a thing; and occasionally he introduces the topics for
proving

proving things to be the same, or different; and the topics for proving one thing to be better or worse than another.

In this enumeration of topics, Aristotle has shewn more the fertility of his genius, than the accuracy of method. The writers of logic seem to be of this opinion: for I know none of them that has followed him closely upon this subject. They have considered the topics of argumentation as reducible to certain axioms. For instance, when the question is about the genus of a thing, it must be determined by some axiom about genus and species; when it is about a definition, it must be determined by some axiom relating to definition, and things defined: and so of other questions. They have therefore reduced the doctrine of the topics to certain axioms or canons, and disposed these axioms in order under certain heads.

This method seems to be more commodious and elegant than that of Aristotle. Yet it must be acknowledged, that Aristotle has furnished the materials from which all the logicians have borrowed their doctrine of topics: and even Cicero, Quintilian, and other rhetorical writers, have been much indebted to the topics of Aristotle.

He was the first, as far as I know, who made an attempt of this kind: and in this he acted up to the magnanimity of his own genius, and that of ancient philosophy. Every subject of human thought had been reduced to ten categories; every thing that can be attributed to any subject, to five predicables: he attempted to reduce all the forms of reasoning to fixed rules of figure and mode, and to reduce all the topics of argumentation under certain heads; and by that means to collect as it were into one store all that can be said on one side or the other of every question, and provide a grand arsenal, from which all future combatants might be furnished with arms offensive and defensive in every cause, so as to leave no room to future generations to invent any thing new.

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The last book of the Topics is a code of the laws, according to which a fyllogistical disputation ought to be managed, both on the part of the assailant and defendant. From which it is evident, that this philosopher trained his disciples to contend, not for the truth merely, but for victory.

SECT. 3. *Of the book concerning Sophisms.*

A fyllogism which leads to a false conclusion, must be vicious, either in matter or form: for from true principles nothing but truth can be justly deduced. If the matter be faulty, that is, if either of the premises be false, that premise must be denied by the defendant. If the form be faulty, some rule of fyllogism is transgressed; and it is the part of the defendant to shew, what general or special rule it is that is transgressed. So that, if he is an able logician, he will be impregnable in the defence of truth, and may resist all the attacks of the sophist. But as there are fyllogisms which may seem to be perfect both in matter and form, when they are not really so, as a piece of money may seem to be good coin, when it is adulterate; such fallacious fyllogisms are considered in this treatise, in order to make a defendant more expert in the use of his defensive weapons.

And here the author, with his usual magnanimity, attempts to bring all the fallacies that can enter into a fyllogism under thirteen heads; of which six lie in the diction or language, and seven not in the diction.

The fallacies in diction are, 1. When an ambiguous word is taken at one time in one sense, and at another time in another. 2. When an ambiguous phrase is taken in the same manner. 3. and 4. are ambiguities in syntax; when words are conjoined in syntax that ought to be disjoined; or disjoined when they ought

ought to be conjoined. 5. is an ambiguity in profody, accent, or pronunciation. 6. An ambiguity arising from some figure of speech.

When a sophism of any of these kinds is translated into another language, or even rendered into unambiguous expressions in the same language, the fallacy is evident, and the syllogism appears to have four terms.

The seven fallacies which are said not to be in the diction, but in the thing, have their proper names in Greek and in Latin, by which they are distinguished. Without minding their names, we shall give a brief account of their nature.

1. The first is, Taking an accidental conjunction of things for a natural or necessary connection: as, when from an accident we infer a property; when from an example we infer a rule; when from a single act we infer a habit.

2. Taking that absolutely which ought to be taken comparatively, or with a certain limitation. The construction of language often leads into this fallacy: for in all languages it is common to use absolute terms, to signify things which carry in them some secret comparison; or to use unlimited terms, to signify what from its nature must be limited.

3. Taking that for the cause of a thing which was only an occasion, or concomitant.

4. Begging the question. This is done, when the thing to be proved, or some thing equivalent, is assumed in the premises.

5. Mistaking the question. When the conclusion of the syllogism is not the thing that ought to be proved, but something else that is mistaken for it.

6. When that which is not a consequence is mistaken for a consequence; as if, because all Africans are black, it were taken for granted that all blacks are Africans.

7. The last fallacy lies in propositions that are complex, and



imply two affirmations, whereof one may be true, and the other false; so that whether you grant the proposition, or deny it, you are intangled: as when it is affirmed, that such a man has left off playing the fool. If it be granted, it implies, that he did play the fool formerly. If it be denied, it implies, or seems to imply, that he plays the fool still.

In this enumeration, we ought, in justice to Aristotle, to expect only the fallacies incident to categorical syllogisms. And I do not find, that the logicians have made any additions to it when taken in this view; altho' they have given some other fallacies that are incident to syllogisms of the hypothetical kind, particularly the fallacy of an incomplete enumeration in disjunctive syllogisms and dilemmas.

The different species of sophisms above mentioned are not so precisely defined by Aristotle, or by subsequent logicians, but that they allow of great latitude in the application; and it is often dubious under what particular species a sophistical syllogism ought to be classed. We even find the same example brought under one species by one author, and under another species by another. Nay, what is more strange, Aristotle himself employs a long chapter in proving by a particular induction, that all the seven may be brought under that which we have called *mistaking the question*, and which is commonly called *ignoratio elenchi*. And indeed the proof of this is easy, without that laborious detail which Aristotle uses for the purpose: for if you lop off from the conclusion of a sophistical syllogism all that is not supported by the premises, the conclusion, in that case, will always be found different from that which ought to have been proved; and so it falls under the *ignoratio elenchi*.

It was probably Aristotle's aim, to reduce all the possible variety of sophisms, as he had attempted to do of just syllogisms, to certain definite species: but he seems to be sensible that he had fallen

fallen short in this last attempt. When a genus is properly divided into its species, the species should not only, when taken together, exhaust the whole genus; but every species should have its own precinct so accurately defined, that one shall not encroach upon another. And when an individual can be said to belong to two or three different species, the division is imperfect; yet this is the case of Aristotle's division of the sophisms, by his own acknowledgement. It ought not therefore to be taken for a division strictly logical. It may rather be compared to the several species or forms of action invented in law for the redress of wrongs. For every wrong there is a remedy in law by one action or another: but sometimes a man may take his choice among several different actions. So every sophistical syllogism may, by a little art, be brought under one or other of the species mentioned by Aristotle, and very often you may take your choice of two or three.

Besides the enumeration of the various kinds of sophisms, there are many other things in this treatise concerning the art of managing a syllogistical dispute with an antagonist. And indeed, if the passion for this kind of litigation, which reigned for so many ages, should ever again lift up its head, we may predict, that the Organon of Aristotle will then become a fashionable study: for it contains such admirable materials and documents for this art, that it may be said to have brought it to a science.

The conclusion of this treatise ought not to be overlooked: it manifestly relates, not to the present treatise only, but also to the whole analytics and topics of the author. I shall therefore give the substance of it.

“ Of those who may be called inventors, some have made important additions to things long before begun, and carried on through a course of ages; others have given a small beginning to things which, in succeeding times, will be brought to greater perfection. The beginning of a thing, though small, is the

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“ chief part of it, and requires the greatest degree of invention ;
 “ for it is easy to make additions to inventions once begun. Now
 “ with regard to the dialectical art, there was not something done,
 “ and something remaining to be done. There was absolutely
 “ nothing done : for those who professed the art of disputation,
 “ had only a set of orations composed, and of arguments, and
 “ of captious questions, which might suit many occasions. These
 “ their scholars soon learned, and fitted to the occasion. This
 “ was not to teach you the art, but to furnish you with the mate-
 “ rials produced by the art : as if a man professing to teach you
 “ the art of making shoes, should bring you a parcel of shoes of
 “ various sizes and shapes, from which you may provide those
 “ who want. This may have its use ; but it is not to teach the
 “ art of making shoes. And indeed, with regard to rhetorical
 “ declamation, there are many precepts handed down from an-
 “ cient times ; but with regard to the construction of syllogisms,
 “ not one.

“ We have therefore employed much time and labour upon
 “ this subject ; and if our system appears to you not to be in the
 “ number of those things, which, being before carried a certain
 “ length, were left to be perfected ; we hope for your favourable
 “ acceptance of what is done, and your indulgence in what is left
 “ imperfect.”

C H A P.

