

OTHER VOLUMES IN THE SERIES OF CAMBRIDGE
COMPANIONS:

AQUINAS *Edited by* NORMAN KREZZMANN *and*
ELEANORE STUMP
BACON *Edited by* MARKO PELTONEN
BERKELEY *Edited by* KENNETH WINLER
DESCARTES *Edited by* JOHN COTTINGHAM
EARLY GREEK PHILOSOPHY *Edited by* A.A. LONG
HEGEL *Edited by* GUENTER ZOELLER
FOUCAULT *Edited by* GARY GOTLING
FREGE *Edited by* TOM RICKETS
FREUD *Edited by* ILROME NEU
HABERMAS *Edited by* STEPHEN K. WHITE
HEGEL *Edited by* FREDERICK BLSER
HEIDEGGER *Edited by* CHARLES GUIGNON
HOBBES *Edited by* TOM SORBELL
HUMI *Edited by* DAVID PATE NORTON
HUSSERL *Edited by* BARRY SMITH *and* DAVID
WOODRILL SMITH
WILLIAM JAMES *Edited by* RUTH ANNE FOTNAM
KANT *Edited by* PAUL GUYER
KIERKEGAARD *Edited by* ALASCAR HANNAY *and*
GORDON MARINC
LEIBNIZ *Edited by* NICHOLAS JOLLY
LOCKE *Edited by* VERA CHAPPELL
MARX *Edited by* TERRELL CARVER
MILL *Edited by* JOHN SKORUPSKI
NIETZSCHE *Edited by* BERND MAGNUS *and*
KATHIEN HIGGINS
PIERCE *Edited by* CHRISTOPHER HODGWAY
PLATO *Edited by* RICHARD KRASÉ
PLOTINUS *Edited by* LLOYD P. GERSON
SARTRE *Edited by* CHRISTINA HOWELS
SPINOZA *Edited by* DON GARRETT
WITTGENSTEIN *Edited by* HANS SLUGA *and*
DAVID STERN

The Cambridge
ARISTOTLE

Edited by Jonathan
University of Geneva

 **CAMBRIDGE**
UNIVERSITY PRESS

PUBLISHED BY THE PRESS SYNDICATE OF THE UNIVERSITY OF CAMBRIDGE
The Edinburgh Building, Trumpington Street, Cambridge, United Kingdom

CONTENTS

CAMBRIDGE UNIVERSITY PRESS
The Edinburgh Building, Cambridge CB2 2RU, UK <http://www.cup.cam.ac.uk>
48 West 20th Street, New York, NY 10011-4211, USA <http://www.cup.org>
10 Stamford Road, Oakleigh, Melbourne 3166, Australia

© Cambridge University Press 1995

This book is in copyright. Subject to statutory exceptions and to the provisions of relevant collective licensing agreements, no reproduction of any part may take place without the written permission of Cambridge University Press

First published 1995
Reprinted 1995 (twice), 1996 (twice), 1998

Printed in the United States of America

Typeset in Trump Med new

A catalogue record for this book is available from the British Library

Library of Congress Cataloguing-in-Publication Data is available

ISBN 0-521-41133-5 hardback
ISBN 0-521-42294-3 paperback

Last of contributors

Introduction

Aristotle's writings

- 1 Life and work
JONATHAN BARNES
- 2 Logic
RODIN SMITH
- 3 Metaphysics
JONATHAN BARNES
- 4 Philosophy of science
R. J. HANKINSON
- 5 Science
R. J. HANKINSON
- 6 Psychology
STEPHEN EVERSON
- 7 Ethics
D. S. BUCHINSON
- 8 Politics
C. C. W. TAYLOR
- 9 Rhetoric and poetics
JONATHAN BARNES

<i>Suggestions for reading</i>	387
<i>Bibliography</i>	295
<i>Index of passages</i>	385
<i>Index of names</i>	393
<i>Index of Greek terms</i>	395
<i>Index of subjects</i>	397

CONTRIBUTORS

JONATHAN BARNES is Professor of Philosophy at the University of Geneva. He was editor of *Phronesis* for twenty-five years. His numerous publications include the edition of Aristotle's *Nicomachean Ethics* (1982) and the revised edition of Aristotle's *Metaphysics* (1984).

STEPHEN BRADEN was educated at Balliol College, Oxford, and currently teaches at the University of Cambridge. His publications include a translation and commentary on a sequence of *Companions to Aristotle's Ethics*.

R.I. HANKINSON was educated at King's College, Cambridge, where he has taught at McGill University in Montreal and at the University of Texas at Austin, where he is currently a professor. He has written numerous articles and books, including *Galien: On the Therapeutic Method*.

D.S. RUTCHINSON studied at Balliol College, Oxford, and at the University of Toronto. He teaches ancient philosophy at the University of Toronto and is the author of *The Virtues of Aristotle*.

ROBIN SMITH is Professor of Philosophy at the University of Toronto. His publications include translations of Aristotle's *Prior Analytics* (1989) and *Posterior Analytics* (1992).

C. C. W. TAYLOR is a Fellow of Corpus Christi College, Oxford. He is the author of *Plato: Protagoras* (1976), and of many articles in ethics, philosophy of mind, and history of philosophy. He is co-author (with J. Costling) of *The Greeks on Pleasure* (1982) and co-editor (with J. Dancy and J. Moravcsik) of *Human Agency: Festschrift for J. O. Urmson* (1985).

INTRODUCTION

The essays which make up this yet another collection of New has striven to be – what its title Aristotle.

It is a philosophical compa its topic in a philosophical ma divine the various influences the historical origins of his ide is it primarily concerned to s intellectual context of his ag offer a philosophical exposi criticism of the theses and a ttle's writings.

Secondly, the *Companion* u sophical parts and aspects of A those parts and aspects which philosophical. The first chap about the man and his works, is very little about Aristotle about Aristotle as a man of sc whom the book is devoted. T works from our point of view author and of his contempor which he did not acknowledge are evident dangers in such cians which were plain to A disguise his original mode of mountable, nor is the enterpr

a legitimate interest in what Aristotle represents for us, as philosophers, now.

(And it may be worth observing that the term "philosophy," so far as the *Companion* is concerned, refers to what is sometimes called the analytical tradition of philosophy. Philosophers working in other traditions have studied Aristotle – there are, for example, Thomist interpretations of Aristotle and "continental" interpretations of Aristotle. The *Companion*, for wholly unpolemical reasons, does not address itself to these things.)

In principle, a work of this sort might be expected to have comprehensive aspirations: that is to say, the *Companion* might be expected to cover the whole of Aristotle's philosophy – or at any rate, most and the most important of his ideas. In practice, such aspirations cannot be realized within the covers of a single volume: the subject is too large, and too difficult. Too large: some aspects of Aristotle's thought which some philosophers would deem to be important have not been mentioned at all; and many points which many philosophers would consider important have been only lightly touched upon. Too difficult: comprehensive surveys of tough texts degenerate into superficial and unsatisfying summaries, and the *Companion* is intended to be a philosophical guidebook rather than a flat epitome: the contributors have sometimes chosen to labour hard in this or that area rather than skim softly over their whole domain. Nonetheless, the *Companion* claims to give a reasonably serious treatment of many of the most important aspects of Aristotle's philosophy.

The treatment is elementary. The *Companion* is intended for philosophical readers who are new to Aristotle. It is not a book for scholars who are already practised Aristotelians (they are too old for companions); nor, on the other hand, is it written for that fabulous creature, the general reader. It is for students, undergraduate and graduate, who have acquired – or would like to acquire – an incipient philosophical interest in Aristotle. The students are not supposed to know Greek or to have any prior acquaintance with Greek philosophy; and although they are assumed to be philosophy students (in a generous sense of the phrase), they are not supposed to be advanced philosophers. What they are supposed to be is determined and intelligent. For although the *Companion* purports to be introductory, it does not claim to be easy. Aristotle is a

difficult author and the subject is difficult. If the *Companion* made no other claim, it would be a poor guide to Aristotle.

The contributors to the *Companion* are not all of the same century; but they were not urged to write about Aristotle as if he were an ephemeral thing, and on Aristotle's philosophy it is not, in any event, it is tedious to read about Aristotle as if he were a relic of current orthodoxies. The *Companion* is not written for novelty, and it is not the place for arbitrary innovations: a preliminary center of gravity is provided. The *Companion* presents are, in principle, the most modern scholars in the field, and their work is regarded as initially reasonable, and their conclusions as ultimately defensible.

This may read like a recipe, but it is not. The *Companion* certainly lacks the spice of scholarship, but it is not a recipe. It was given no room for polemical flourishes, and it is not a recipe for readers to assess. But the editors of the *Companion* have not been afraid to let the contributors naturally adopted different methods and preferred different methods of interpretation. At the same time it becomes clear that the editors have not intervened. The editor has regularized the differences: he has regularized the differences. And this not merely for the sake of virtue, if it is a virtue at all.

Blandness is the vice of authority. If the *Companion* has avoided the vice, it certainly does not claim to serve up anything new. Whether or not there is anything new in the account of Aristotle's philosophy in the *Companion*, the intention of producing such a book is not to produce a new account of Aristotle's philosophy, nor to produce a new thought. I write this not as a disclaimer, but as an honest admission. I am not a reviewer, but as an honest admission. I suppose that you read a chapter of the *Companion* and suggested that Aristotle believed

If you turn over the page and say to yourself, "Oh, so Aristotle believed such-and-such or argued thus-and-so," then the *Companion* will have failed, and failed wretchedly. For you are meant, as you put the book down, to converse with yourself in the following sort of way: "Oh, so Aristotle is supposed to have believed such-and-such or argued thus-and-so. What an interesting - or perplexing, or perverse - thing to have thought. Might it be true? How best can it be defended (or attacked)? Should it perhaps be modified or qualified or otherwise embellished? Come to that, *did* Aristotle really mean exactly that? Perhaps a subtler version of the interpretation is possible? Perhaps a different interpretation altogether? Let me now look more nearly at Aristotle's own words and see what he actually says."

Well, no *Companion* will evoke such thoughts in every reader all the time; but if you never find yourself thinking in this way, then either you are not made for Aristotle or else you should return the *Companion* to the publisher and claim your money back.

Aristotle has not always had a good press. At some periods and in some quarters it has been urged that his influence on philosophy was malign. (And I recently heard a Nobel laureate assert - it was an assertion based on the most perfect ignorance - that Aristotle had a malign influence on the development of science.) Nonetheless, he has always been judged an important philosopher, and he has always been judged a difficult philosopher. And these twin judgments make it unastonishing that Aristotle's writings have been subjected, ever since antiquity, to profound and continuous critical attention. Learned articles and learned books, scholarly commentaries and popular accounts, philological inquiries and philosophical investigations, the products of solitary reflection and the proceedings of conferences and colloquia and symposia - scribble, scribble, scribble, for two thousand years, and never faster than in recent decades. No waste paper basket can keep up with the stuff.

Much of this secondary literature is without intellectual merit; indeed, it is produced for reasons that have little to do with the intellect. Yet the excellent material, though small in proportion, is comfortable enough in girth: a bibliography on Aristotle which included only eminent items would run to several hundred pages.

This luxuriant growth has had its pedagogical effect. At any rate,

students in many British universities seem to adopt - and are tacitly proach to Aristotle. First, you publish "Aristotelian topic": Aristotle says. Then you are given: a "articles and books on the topic more recent (the better)". You scholar X takes issue with scholar Y. Glancing quickly at a passage whether X retorted W and whether W ended out (of course he didn't) you do this well enough, you on Aristotle's Doctrine of the students will try to decide whether W ended out.

This is no doubt a calumny; I am persuaded that it is not far from the truth. I have seen many articles on Y's criticisms of Aristotle. To be sure, such things are both a cause and a symptom of modern scholarly interest in Aristotle. In place in the academic economy, to advance our understanding of Aristotle, you should have no trouble finding an Aristotle.

For you will be interested in Aristotle. You think that X thinks that W is a trifling truth. If you are proud of Aristotle, then you are starting in the wrong course, if W is someone like Aquinas, then the interest in Aristotle is not in Aristotle. More on Aristotle says by reading Aristotle about Aristotle. And this is not always the temptation to read W is a bit easier to read than Aristotle. . . . But a truth it is to find it horribly difficult to see like a tourist who travels through

Thus the purely philosophical reason for the study of Aristotle is not to be urged. There is the only possible motive for studying Aristotle purely historical? After all, Aristotle is an historical figure, in studying his thought you are doing history, like it or not; and historical curiosity is far from an ignoble motive.

I have heard it said that philosophers ought to feel such historical curiosity, that it would be wrong for someone to study philosophical issues and yet have no interest at all in the way in which past philosophers had addressed these issues. This asseveration – which is presumably meant to convey a moral truth – seems to me to be as plausible as the parallel claim that biologists ought to feel historical curiosity about the work of past biologists. That is to say, the asseveration seems to me to be wholly implausible. I have also heard it said that philosophers *necessarily* feel a historical interest in their subject, philosophy – unlike biology or truffle-hunting – is in an important sense inseparable from its history, so that to be a philosopher is *ipso facto* to have an interest in the history of philosophy. This metaphysical asseveration can hardly be evaluated until it has been articulated with rather more clarity and precision. But it seems fairly clear that, however articulated, the claim will turn out to be false – for it will surely have the consequence that neither Gottlob Frege nor Ludwig Wittgenstein were philosophers. (And no philosopher will hold that neither of these great men did philosophy.)

Here is another asseveration. If you are a philosopher, then it is very likely that you will have an interest in the history of philosophy, or at least in the work of some of the more eminent figures in that history. If you are fascinated by philosophical questions, then you are likely to be fascinated by the way in which others have attempted to answer – and to formulate – philosophical questions. (And more particularly: if you are a philosopher working in a given tradition, then you are likely to be interested in the earlier representatives of the tradition.) This asseveration is not platitudinous; nor is it universally true. But I take it to be a truth, a general psychological truth.

“But suppose that I’m not an intellectual necrophiliac: – suppose

- 3 And it has in fact led to much third rate work: secure in the knowledge that my aim is a philosophical aim, I allow myself to get away with shoddy scholarship, assured by the thought that I am, after all, a historian, I expect to get by with sloppy philosophizing.

that I don't have a taste for Aristotle or any other dead thinkers: unrewarding or frustrating or nice people who do not like me: people who cannot abide the thought, unfortunate; but they are why they should be forced to eat: have no taste, and can develop pity. But it is not a sin: you gritted teeth and with rage in your eyes at all.

In 1831 Immanuel Bekker edited the first complete edition of Aristotle's works. 'Bekker's Aristotle' is the most authoritative and up-to-date text of Aristotle's works. There is a later and superior edition, inasmuch as scholars of Aristotle have since then preferred Bekker. Thus I might say: "Aristotle's *Nicomachean Ethics* at HA A 6, 491a9–14" I give first the title of the work, then the book number, then the Greek letter alpha and refer to the first book number (the Arabic numeral "1"), then the column number, line number, and the right-hand column on the four hundred page.

Different scholars prefer different ways of referring to books used in the *Companion* are listed in the *Companion*. I refer to books by numbers rather than by Greek letters. I do not refer to books at all; different scholars use different chapter divisions, and I refer to chapters rather than to sections. But Bekker will rarely be used in editions of the Greek texts printed in the *Companion*. I give the most decent translations given in the *Companion* or at the head of the page.

1. Scholars customarily speak of Aristotle's works as divided into books and the books as divided into chapters. The books correspond roughly to the chapters correspond roughly to the sections. The 2.4th section of the first

Bekker's Aristotle contains several works which are not by Aristotle himself: written by later (and unknown) hands, they found their way – for uncertain and no doubt various reasons – into the corpus of Aristotle's writings. It is customary to stigmatize the spurious with square brackets. Thus a reference to the *Problems* will normally read “[Aristotle], *Prob.*” rather than “Aristotle, *Prob.*”

Conversely, not quite all of Aristotle's genuine works are to be found in Bekker, for his lost works (that is to say, those of his works which did not survive antiquity and were unknown to the medieval manuscript tradition) have left scattered traces here and there – a reference, a description, a paraphrase, a quotation. Most of these “fragments” are short and insubstantial; they are standardly referred to by an Arabic numeral followed by the symbol “R” (the reference designates the number of the fragment in the third edition of Valentin Rose's *Aristoteles quae inservantur librorum fragmenta*, published in Leipzig in 1886. (There are often more recent and better texts than Rose's; but it remains convenient to use Rose numbers as references.) Substantial fragments of two lost works survive – perhaps. First, there is a text, nearly complete, of the *Constitution of the Athenians* (which many scholars ascribe to the “school of Aristotle” rather than to Aristotle himself); it was discovered on an Egyptian papyrus at the end of the last century; references give the sections into which the first editor divided the text. Secondly, many scholars believe that most of the *Protrepticus* has been preserved, in paraphrase, by the philosopher Iamblichus in his own work of the same name.² Here it is convenient to key references to the fullest edition of the texts, Ingemar Düring's *Aristotle's Protrepticus*, which was published in Göteborg in 1961.

Everything in Bekker's Aristotle, together with a generous selection of the “fragments” is translated into English in *The Complete Works of Aristotle* – the revised version of the “Oxford Translation”, edited by Jonathan Barnes and published in Princeton in 1984. There are many other good translations available, for most of Aristotle's works have been translated into English several times. Every translation translates, and even the best translations contain errors. Readers who are not able to check an English version against the original Greek are not, however, entirely helpless: checking one English

version against another will often detect errors of infelicity, even if it will not reveal errors of the infelicity avoided.

In the following table the first column lists the titles of Aristotle. Spurious items are marked with an asterisk. The column indicates which Bekker edition the title refers to. The second column gives the abbreviation used in this edition.

Some scholars use Latin titles for Aristotle's works in modern language: here I have used English, with two Latin exceptions. I have used Latin, I think, and prefer different abbreviations, because Latin is a hutchpotch, sometimes abbreviating, sometimes abbreviating, sometimes a Latin. These minor inaccuracies are, I think, pleasing; but they should not be

<i>Categories</i>	Ca.
<i>de Interpretatione</i>	Int.
<i>Prior Analytics</i>	Pr. An.
<i>Posterior Analytics</i>	Post. An.
<i>Topics</i>	Top.
<i>Sophistical Refutations</i>	Soph. Ref.
<i>Physics</i>	Ph.
<i>On the Heavens</i>	Met. A.
<i>On Generation and Corruption</i>	Met. B.
<i>Meteorology</i>	Met. E.
* <i>On the Universe</i>	Univ.
<i>On the Soul</i>	De An.
<i>Sense and Sensibilia</i>	De Sens.
<i>On Memory</i>	De Mem.
<i>On Sleep</i>	De Somn.
<i>On Dreams</i>	De Somn. II
<i>On Divination in Sleep</i>	De Somn. III
<i>On Length and Shortness of Life</i>	De Long. et Brev. Vitae
<i>On Youth, Old Age, Life and Death</i>	De Juventute, Senectute, Vita et Morte
<i>On Respiration</i>	De Resp.
* <i>On Breath</i>	De Spir.
<i>History of Animals</i>	De Hist. An.

² Iamblichus lived from about A.D. 245 to about A.D. 325.

³ Book 10, and perhaps other parts.

<i>Parts of Animals</i>	639-697	PA
<i>Movement of Animals</i>	697-704	MA
<i>Progression of Animals</i>	704-714	IA
<i>Generation of Animals</i>	715-739	GA
* <i>On Colours</i>	791-799	Col
* <i>On Things Heard</i>	800-804	And
* <i>Physiognomies</i>	805-814	Physiog
* <i>On Plants</i>	815-830	Plant
* <i>On Marvellous Things Heard</i>	830-847	Mirab
* <i>Mechanics</i>	847-858	Mech
* <i>Problems</i>	859-967	Prob
* <i>On Indivisible Lines</i>	966-972	Lin. Insec
* <i>The Situations and Names of Winds</i>	973	Vent
* <i>On Melissus, Xenophanes and Gorgias</i>	974-980	MXG
<i>Metaphysics</i>	980-1093	Met
<i>Nicomachean Ethics</i>	1094-1181	NE
* <i>Magna Moralia</i> ⁴	1181-1213	MM
<i>Eudemian Ethics</i>	1214-1249	EE
* <i>On Virtues and Vices</i>	1249-1251	VV
<i>Politics</i>	1252-1342	Pol
* <i>Economics</i>	1343-1353	Econ
<i>Rhetoric</i>	1354-1420	Rhet
* <i>Rhetoric to Alexander</i>	1420-1447	Rhet. ad Alex
<i>Poetics</i>	1447-1462	Poet

ABBREVIATIONS

An	<i>On the Soul</i>
An.Post	<i>Posterior Analytics</i>
An.Pr	<i>Prior Analytics</i>
And	* <i>On Things Heard</i>
Coel	<i>On the Heavens</i>

4 Book K - 11 probably spurious

5 But some have argued for authenticity.

Cat	<i>Categories</i>
Col	* <i>On Colours</i>
Div.Somn	<i>On Divination in Sleep</i>
Econ	* <i>Economics</i>
EE	<i>Eudemian Ethics</i>
GA	<i>Generation of Animals</i>
GC	<i>On Generation and Corruption</i>
HA	<i>History of Animals</i>
IA	<i>Progression of Animals</i>
Insomn	<i>On Dreams</i>
Int	<i>de Interpretatione</i>
Iuv	<i>On Youth, Old Age, and Senescence</i>
Lin.Insec	* <i>On Indivisible Lines</i>
Long.Vit	<i>On Length and Shortness of Life</i>
MA	<i>Movement of Animals</i>
Mech	* <i>Mechanics</i>
Mem	<i>On Memory</i>
Meteor	<i>Meteorology</i>
Met	<i>Metaphysics</i>
Mirab	* <i>On Marvellous Things Heard</i>
MM	* <i>Magna Moralia</i>
Mund	* <i>On the Unmoved Mover</i>
MXG	* <i>On Melissus, Xenophanes, and Gorgias</i>
NE	<i>Nicomachean Ethics</i>
PA	<i>Parts of Animals</i>
Phys	<i>Physics</i>
Physiog	* <i>Physiognomies</i>
Plant	* <i>On Plants</i>
Poet	<i>Poetics</i>
Pol	<i>Politics</i>
Prob	* <i>Problems</i>
Resp	<i>On Respiration</i>
Rhet	<i>Rhetoric</i>
Rhet.ad Alex	* <i>Rhetoric to Alexander</i>
SE	<i>Sophistical Refutations</i>
Sens	<i>Sense and Sensibilia</i>
Somn	<i>On Sleep</i>
Spizit	* <i>On Breath</i>
Top	<i>Topics</i>
Vent	* <i>The Situations and Names of Winds</i>
VV	* <i>On Virtues and Vices</i>

should we be tempted to draw inferences of a personal nature from Aristotle's philosophical works. such inferences are rarely reliable, and Aristotle's writings are in any case uncommonly impersonal.

But a few personal documents do survive: a couple of poems, one of them in praise of Plato, snippets from letters, a few of which may just possibly be genuine; and Aristotle's will. The text of the will is apparently authentic, and although it is in several places difficult to follow and difficult to translate, the general drift is clear. I quote it here in full: it needs no commentary.³

All will be well; but should anything happen, Aristotle has made the following provisions:

Antipater is to be executor in all matters and in perpetuity, but until Nicanor⁴ arrives, Aristomenes, Timarchus, Hipparchus, Droteles, and Theophrastus (if he is willing and able) are to take care of the children and of Herpyllis⁵ and of the estate.

When my daughter comes of age, they are to marry her to Nicanor, and should anything happen to her (may it not in so, and it surely will not do so) before her marriage or after she has married but before there are any children, then Nicanor is to be responsible for administering the affairs of my son and the others in a fashion worthy both of himself and of us. Let Nicanor take care both of my daughter and of my son Nicanachus in whatever way he judges appropriate to their situation, as though he were both father and brother to them.

If anything should happen to Nicanor before this (may it not do so, either before he has taken my daughter or after he has taken her but before there are any children, then if he has made any arrangements, let these take effect. If Theophrastus wishes to live with my daughter, let the same provisions stand as with Nicanor; if he does not, then the executors are to consult with Antipater and administer the affairs both of my daughter and of my son in whatever way they think best.

The executors and Nicanor, remembering me and Herpyllis and how good she was to me, are to take care of everything – and in particular, if she wants to take a husband, they are to see to it that she is given away in a fashion not unworthy of us. In addition to what she has previously been

given, they are to give her a tale of women servants, if she wishes, and iron Pyrrha. If she wants to live in the garden, if in Stagira the far wants, the executors are to furnish and satisfactory to Herpyllis.

Nicanor is also to take care of the a fashion worthy of us to his own pings which we received. They are marriage of my daughter, five han has. They are also to give Thale, in one who was bought), a thousand d from the money which has already are either to buy him a slave or to the marriage of my daughter, as are not sell any of the slaves who serve come of age, set them free as they c

They are to take care too that r Gryllin are completed and set up (which I intended to commission), a of Aristonestus which is already con since he died childless. They are t Demeter in Nemea or wherever see

Wherever they make my grave th too, just as she instructed.⁸ And N prayed for on his behalf) is to set up Zeus the Saviour and Athena the Sa

II. ARISTOTLE'S LIFE

He was born in 384 BC, in the south of Greece. His father, Nicomachus, was sent to King Amyntas of Macedonia. Aristotle was born in his own right.

In 367 he moved to Athens, where he joined an intellectual circle which centred on Plato. He began to teach some philosophy as a boy in Stagira.

³ Aristotle's uncle.

⁴ Pythas was Aristotle's first wife.

³ The will is found in Digenes Laertius, *Lives of the Philosophers* V. 1–16, see also below, pp. 195–196.

⁴ The Macedonian governor of Athens.

⁵ Aristotle's adopted son.

⁶ Aristotle's second wife.

Plato's philosophical dialogues, and maybe he moved to Athens precisely in order to study philosophy with Plato. But there is no positive evidence for these easy suppositions. Nor do we know exactly what Aristotle found at Athens.

Plato was a celebrated figure – perhaps a controversial figure. His fame had attracted intellectuals from abroad, and the Platonic circle – “Plato's Academy” – included some of the most eminent philosophers and scientists of the age. The circle met, either at Plato's house or in the public gymnasium of the Academy. There were discussions. And there was teaching. For the Academy was also in some sense a school, (and there was a keen rivalry between it and the establishment which the orator Isocrates had set up for the political education of the Athenian youth). Aristotle may properly be called a student at the Academy insofar as he received teaching there, and in addition the Academy may have had some of the features of a modern club – senior and junior membership, officers, regular meetings, dinners. But we may not imagine the Academy as a University or a College: in particular, we may not think of formal syllabuses and formal lecture-courses, of examinations and degrees.

He stayed in Athens for the next twenty years, always associated with the Academy, and he surely spent much of his time in listening to philosophers and scientists, and eventually in writing and teaching himself. It is reasonable to suppose that the Academicians debated the matters which Plato discussed in his dialogues – ethics and political theory, psychology, metaphysics and epistemology and logic. In addition, we know that Plato encouraged the study of mathematics and of astronomy. And there is some reason to think that other, less abstract, sciences were not excluded.

Plato died in 347, and Aristotle left Athens. Why he left is uncertain, but political reasons have been hypothesized. Aristotle had Macedonian connexions, and the Athenians are reported (on admittedly dubious authority)¹¹ to have set up an inscription in his honour, thanking him in particular for intervening with the king of Macedonia in their interest. But in 347 the northern town of Olynthus

9 For the earliest evidence for these features refers to the period after Plato's death.

10 *An Ancient Life of Aristotle*, see Düring, *op. cit.*, p. 215.

had just fallen to the Macedonian party in Athens, led by the orator. Aristotle was not – then a situation may have been delicate.

However that may be, he went, demurely, to Atarneus, on the coast of the “Aegean” of the place, had connexion appears to have been a small town. Hermias welcomed Aristotle, and he went to the town of Assos to live in, where he met together in a courtyard all they needed.¹² Aristotle was and when, in 341, Atarneus was tortured to death, Aristotle was

From Atarneus Aristotle moved to the island of Lesbos. There he met who was to become his most important pupil. It is supposed that he devoted part of his time to marine biology.

After Mytilene, a brief period of Philip II, King of Macedonia invited Aristotle to the court of his son, Alexander.¹³ Thus began the powerful mind of the age and the excited the romantic imagination. But what Aristotle said to Alexander, we do not know. (It is in vain to look for any influence on the bloody Caesar will find nothing – or virtually nothing) in his writings which betrays interest in empire.)

In 335 Aristotle returned

11 The report comes from the Epicurean philosopher, Philodemus, or his sources, but may nevertheless be true.

12 Theophrastus too was invited, and he went, whom Alexander later

and on accidents, 1 book; Pre-Topics, 1 book; Topics aimed at definitions, 3 books; Feelings, 1 book; Division, 1 book; Mathematics, 1 book; Definitions, 13 books; Arguments, 2 books; On Pleasure, 1 book; Propositions, 1 book.

[C] On the Voluntary, 1 book; On the Noble, 1 book.

[D] Theses for arguments, 23 books; Theses on love, 4 books; Theses on friendship, 2 books; Theses on the soul, 1 book.

[E] Politics, 2 books; Lectures on Politics (like those of Theophrastus), 8 books; On Just Acts, 2 books.

[F] Collection of Arts, 2 books; Art of Rhetoric, 2 books; Art, 1 book; Art (another work), 2 books; Mechanics, 1 book; Collection of the Art of Theudectes, 1 book; Treatise of the Art of Poetry, 2 books; Rhetorical Enchiridion, 1 book; On Grandeur, 1 book; Division of Enchiridion, 1 book; On Diction, 2 books; On Advice, 1 book; Collection, 2 books.

[G] On Nature, 3 books; Physics, 1 book; On the Philosophy of Anaximander, 3 books; On the Philosophy of Speusippus and Xenocrates, 1 book; Excerpts from the Timaeus and from the works of Anaximander, 1 book; On Melissus, 1 book; On Alcmaeon, 1 book; Against the Pythagoreans, 1 book; On Gorgias, 1 book; On Xenophanes, 1 book; On Zeno, 1 book; On the Pythagoreans, 1 book.

[H] On Animals, 5 books; Dissections, 8 books; Selection of Dissections, 1 book; On Composite Animals, 1 book; On Mythological Animals, 1 book; On Sterility, 1 book; On Plants, 1 book; Physiognomics, 1 book; Medicine, 2 books.

[I] On Unes, 1 book; Storm Signs, 1 book; Astronomy, 1 book; Optics, 1 book; On Motion, 1 book; Memory, 1 book.

[J] Homeric Problems, 6 books; Poetics, 1 book.

[K] Physics (physically ordered), 38 books; Additional problems, 2 books; Standard problems, 2 books; Mechanics, 1 book; Problems from Democritus, 2 books; On the Magnet, 1 book; Conjunctions of Stars, 1 book; Miscellaneous, 12 books; Explanations (arranged by subject), 14 books.

[L] Claims, 1 book; Olympic Victors, 1 book; Pythian Victors in Music, 1 book; On Music, 1 book; On Pythia, 1 book; Use of Pythian Victors, 1 book; Victories at the Dionysia, 1 book; On Tragedies, 1 book; Theatrical Records, 1 book; Proverbs, 1 book; Rules for Messing, 1 book; Laws, 4 books.

[M] Categories, 1 book; On Interpretation, 1 book.

[N] Constitutions of 158 States (arranged by type: democratic, oligarchic, tyrannic, aristocratic).

[O] Letters to Philip; Letters about the Selymbrians; Letters to Alexander (2), to Antipater (3), to Mentor (2), to Aristo (2), to Olympias (2), to Heghæsthan (1), to Theastagoras (1), to Philoxenus (1), to Democritus (2).

[P] Poems, beginning: "Hilly mountains . . ."; Elegies, beginning: "Dear . . .".

The bulk, as Diogenes insists, is 150 items, running in all to something perhaps of about six thousand more or less in bulk is the range.

As it survives, the catalogue has no clear vestiges of an original ordering. The titles proposed on the text are not wholly consistent, in Group [A], with what we know of youthful works, at least some of which Group [B] has no evident homology. Group [C] has a coherent set of logical titles, but is not logical in content, logic (thus a part of the items in the list. With a few exceptions connect the titles in Group [C] with ethics thus accounts for less than a third of [E] belongs either to logic or to ethics"; and in the latter case we have also Group [K], on the history of poetry. Group [I] is rhetoric and poetic. Groups [M] deal with science. In Group [N] Aristotle's public works. Group [O] is poetry.

The surviving works, some of which are on modern pages.¹⁷ We therefore have a list of works which the catalogue knows as Aristotle's total oeuvre inasmuch as it lists works as *On the Soul*, the *Parts of Animals*, and contains only a small number of titles in major areas of study we know of elsewhere. Thus Aristotle's list of Olympic victors and of Pythian victors at the Dionysia in Athens – representative of his search, and his 158 Constitutions.

¹⁷ The revised Oxford translation of Aristotle's works, including the fragments, but the fragments are not numbered.

¹⁸ Nor does it contain the *Metaphysics*, which represent individual books or parts.

were a formidable exercise in descriptive political science.²⁰ Nonetheless, our modern corpus represents most of Aristotle's main interests and all of his main philosophical interests. The amount of space which the corpus allots to different subjects may not be proportional to the space and time which Aristotle actually devoted to those subjects; but it is reasonable to believe that the corpus does not wildly misrepresent Aristotle's interests and achievements.

Whence came our corpus? There was a story current in antiquity which told a romantic tale about Aristotle's library: Theophrastus inherited it on Aristotle's death; it then passed to Theophrastus's nephew Nleus, who took it to a city called Scepsis in Asia Minor, where he hid it away in a cave. Two centuries later the manuscripts were rediscovered, moulding and worm-eaten. They were transferred first to Athens and then to Rome, where the Peripatetic philosopher Andronicus eventually prepared an edition.

There is a modern story which carries the tale further. For two centuries after Theophrastus's death, Aristotelianism had little or no philosophical influence; for the essential documents were buried in Scepsis and not to be read. Then the edition of Andronicus returned Aristotle to the world: the sun rose, and the philosophical world was warm and light again. And the Aristotle which we read – "Bekker's Aristotle"²¹ – derives directly from Andronicus.

The ancient story may be true, in whole or in part – it is hard to decide whether to be sceptical about Scepsis. But the modern story should be dismissed. The ancient story does not state or imply that Aristotle's works disappeared for two centuries: it says only that his books disappeared. Private individuals probably, and the Lyceum at Athens surely, preserved copies or reports of at least some of his works; and it is fanciful to believe that his thought was simply forgotten. It is true that, after Theophrastus, the Peripatetic school suffered a decline; but there is no reason to explain this by the Scepsis story – nor is it true that once Andronicus had done his work Aristotle immediately resumed his rightful position in the sky.

20 The *Constitution of the Athenians* is preserved not in the manuscript tradition, but on a papyrus which chanced to survive in an Egyptian rubbish-pit. Most scholars suppose that Aristotle did not write the *Constitutions* himself – he may have edited some general supervision, but they were surely the work of his pupils. There is little evidence for this suggestion.

21 Above, p. 202

The edition of Andronicus, also reasonable to think that of his. What did Andronicus do? edition – differ from what Aristotle roughly put, is probably thus: works which we now read.

I do not mean that Andronicus wrote many actual sentences in the sense of putting them together and of Theophrastus into appropriate subjects.²² We read in eight books. The catalogue in the *Topics* (but it does contain a book), which surely answers to *Species* (1 book) may correspond to 100 v. For 100 1–2 we perhaps *Topics* (1 book) and perhaps a might derive from *Topics ante* *Questioning and Answering* (2 these items together and turned

Any specific suggestions of the tive; but it is reasonable to a speculatively illustrate. And a way in which we read Aristotle form a more or less unified picture posed by Andronicus – and was intended by Aristotle himself. the *Topics* – or any other treat Aristotelian unity.

How did Andronicus dare to of the material which he edited these questions, starting from metrics.

Several ancient authors praised it lacking in polish. There but the rest is rough. The rough

22 So Porphyry, who cited Andronicus the works of his master. Platon

love Aristotle's thought, you will come to love his style⁴⁵, but it is undeniable: the syntax is spare, ornamentation is rare, transitions are abrupt, and connections opaque: the language rarely seems to have been chosen with any aesthetic aim, and often enough the intellectual aim is hard to discern – reading Aristotle, as the poet Thomas Gray put it, is like eating dried hay. Did Aristotle's ancient admirers really admire this stuff? Perhaps not; for their judgments of Aristotle's style probably referred to his "exoteric" and not to his "esoteric" works.

The distinction in Aristotle's works between the esoteric and the exoteric is an ancient one. Roughly speaking, the exoteric works were supposed to have been written for a broad public: they were serious, but they were not tough and technical – and they were no doubt written with style and elegance. None of these works has survived, and of them we can form only a partial and frustrating impression from the few fragments which have by chance been preserved. By contrast, the esoteric works were technical things, made for the use of philosophers and for use within the school: they were not "written up for publication" and they were not given a literary polish – indeed, they were not literary texts at all. All Aristotle's surviving works are esoteric in this sense.

Modern scholars have offered a further gloss on the esoteric. The surviving works, it is commonly said, are lecture-notes: they are the notes which Aristotle jotted down and then lectured from (and in some cases perhaps they are notes taken down by his pupils).⁴⁶ This idea fits snugly with the notion of the esoteric; for Aristotle's lectures, and hence any lecture notes, will have been paradigmatically esoteric – things "within the school." The idea also explains why Aristotle's works are so abrupt and unliterary; for you do not think of your lecture notes as publishable prose. Again, it explains why there are relatively few illustrations and almost no jokes: such things get added in the lecture room – only bad lecturers write down their witticisms in advance.

Most interestingly, the idea explains the various inconsistencies and incongruities which have been discovered – or imagined – in

⁴⁵ Several examples of this sort of thing survive from late antiquity. Thus what we refer to as Ammonius's *Commentary on Aristotle's Prior Analytics* is in fact a record of Ammonius's lectures taken down and preserved by his pupils.

Aristotle's works. For lecture-notes their contents emended and added. By the time he died, Aristotle's lectures on ethics a dozen times betrayed the fact: there will have been the first version of the lecture, and there will have been overwriting in numerous passages which will have been maintaining an entirely different version. . . . Moreover, Aristotle's later material as it became dated, ultimately, the texts which will be "doubles": both X and Y will be present to supplant rather than to supplant.

The idea is seductive; but it is Aristotle taught and worked in a century professor of philosophy, the idea with things.

Or perhaps we may embrace the dangerous supposition? Consider the Aristotelian "doubles". . . . Sometimes a passage X is introduced which says pretty well the same thing. Now Aristotle is normally spare and laconic; the tempting hypothesis is that the two versions of the same sentence were intended to stand together. It is difficult to be sure, but it is hard not to think that such a thing is a palpable repetition, or a deliberate and intended difference which were intended to stand together. . . . find it hard not to think that such a thing is a doublet.

In that case, Aristotle certainly allow that revisions took place.

attempted, more audaciously, to write a history of his intellectual development. Instead of a static and systematic Aristotle, we have a dynamic figure.

The modern conclusion, that Aristotle's philosophical ideas must have developed and that the surviving works represent different strata of his thought, will no doubt seem blindingly obvious – surely every philosopher's thought develops and leaves traces of its development in his writings? And as an abstract thesis – as the formal claim that Aristotle sometimes changed his mind – it can scarcely be denied. Yet it has proved surprisingly difficult to make the abstract concrete and to add matter to the form – to describe the actual development of Aristotle's ideas.

The pioneer of "developmental studies" was the German scholar Werner Jaeger. His book *Aristotle – Fundamentals of His Development*, which was first published in German in 1934, determined the course of Aristotelian scholarship for half a century. Jaeger started from two facts about Aristotle's career: first, the fact that Aristotle was Plato's pupil and spent some twenty years as an apprentice in the Academy; secondly, the fact that after Plato's death, Aristotle immersed himself in empirical studies, and notably in detailed biological research. Thus Aristotle moved from Platonism to empiricism. As a young man in the Academy, he fell under the philosophical influence of Plato – how could he not have done? And for a while he embraced Platonism, transcendent ideas and all – how else might the young man have reacted? As he matured he gradually came to find Plato's metaphysical notions less than satisfactory. Methodological reflection and the actual practice of philosophizing led him more and more in the direction of empiricism: of an empirical method, which gave observation the authority over theory, and of an empiricist epistemology, which insisted that all our concepts and all our knowledge must ultimately be based on the data of perception. This empiricism was confirmed during his scientific interlude in the eastern Aegean, where he was preoccupied by his zoological studies. When he returned to Athens and to philosophy, the empiricism stuck – and it marked the whole of his thought, most notably his political theorizing.

Holding in mind this general thesis, which postulates a move from Platonism to empiricism, Jaeger then scrutinized the surviving works. The thesis allowed him to date them (or their parts) relatively

to one another: if A is more empiricist than B, then A is more Platonist than B, then A must be earlier than B. We may have thus been arranged in chronological order, or we may have thus been arranged in chronological order, or we may have thus been arranged in chronological order. We may have thus been arranged in chronological order.

Most scholars have taken Jaeger's thesis as a general thesis. I have accepted not only the general thesis but also the details with which Jaeger himself supported it. My general thesis is roughly right, but I disagree over the dating of this thesis. I think that the empiricism to be found here and there in Aristotle's works is the dislike not only Jaeger's details but also the general thesis they nevertheless applaud his method. I think that Aristotle was an Angry Young Man who, after his master's metaphysics and advice, later mellowed and reflected and discovered that Platonism was not the answer. I think that Aristotle moved from Platonism to empiricism.

For my own part, I am mildly sceptical. It is entirely reasonable to think that Aristotle's views changed: perhaps they changed in the way that Jaeger perhaps they simply changed, and perhaps they simply changed, and perhaps they simply changed. It is possible to establish with some confidence that a large part of the text was written before Plato's death, if we are in a position to say that Aristotle's intellectual biography thus far is not too far from the truth. I have served to command general's.

There are good reasons for scepticism about Aristotle's youthful attitude. He was profoundly influenced by his teacher, and steeped in Plato's thought – Plato's writings and to Plato's ideas. In some of them implicit, there are passages which are submitted to a sustained criticism. In the *Republic* and the *Laws*, there are passages in which Plato's views are evident. I think that the puzzlement (thus the last two

a participle, or the spread of particles and prepositions and conjunctions.) Suppose, then, that the "style" of A turns out to be markedly different from the "style" of B. (A's sentences are on average considerably longer than B's; A has a decided penchant for one or two particles which are rare in B; and so on.) Then one plausible explanation of this difference will be that A and B were written at different periods. And if a third work, C, can be shown to lie between A and B in these stylistic dimensions, then it will become tempting to hypothesize that C was written between A and B.

Stylometry makes use of computer searches and it employs subtle statistical tests. For these reasons it has attracted several cranks and repelled many scholars. But there is no doubt that it is, in general, a potentially serious business. Here, the question is whether it has a serious application to Aristotle's works. And there are I think, reasons for giving the question a moderately pessimistic answer – reasons which I shall postpone for a paragraph or two.

Traditional scholars have traditionally appealed to "philosophical" rather than to "stylistic" arguments, arguments which tend to run somewhat on the following lines: Suppose that A is inconsistent with B, or that A addresses the same issue as B but in a different fashion – then A is later than B provided that A is more mature than B. Now in its most general form, this sort of argument is quite hopelessly crude. For the judgment that A is "more mature" than B is disquietingly subjective; and the assumption that as philosophers grow older they "mature" – and mature in a more or less linear fashion – needs only to be stated to be biased off the stage. There is a restricted version of the argument which seems rather more promising. Suppose that A solves a problem which B left unsolved – then A is later than B. Or rather (to avoid any indeterminacy or subjectivity of judgment): Suppose that B says, "Here is a problem which I can not solve, viz. . . ." while A says, "I have now solved the old problem, thus . . ." In such a case we may surely date A after B. No doubt – but our "philosophical" argument now has virtually no practical utility; for there are virtually no Aristotelian texts which pair off in the way the restricted version of the argument requires.

Is there no hope for a *via media* between the hopelessly crude and the uselessly impractical? There is; and in a few cases it seems to me that tolerably plausible arguments are available. But these few cases are indeed few.

There is a third general reason for being pessimistic about these hypotheses. I have already referred to the fact that Aristotle's surviving writings underwent various revisions and modifications. One might well wonder when Aristotle's morning's work? After a week's work? After a month's work? After a year's work? And we might equally wonder when his evening's work? These are real enough questions, and they cannot be answered except by speculation and conjecture. But the question of Aristotle's chronology should say the presumed fact that Aristotle's works underwent the question of Aristotelian chronology.

Suppose that work A was first written in 335, and work B was written ten years later, lightly retouched and revised in 325, and work C was written a decade later. Suppose that work D was written fully in 335, looked at again a year later, and revised in 336. Well, which was written first, A or B? The question of Aristotle's chronology on these grounds that the first version of A was written before B will you put B before A (on the grounds that the first version of B was later than A)? Or will you say that the definitive version of B was later than A? Clearly, you will say neither of these things. It is absurd to talk about chronology in this way. Aristotle's texts were subject to revision and modification. It makes no sense to ask whether A was written before B. It makes no sense to attempt to date Aristotle's writings.²⁹

For these reasons, then, I do not want to advocate anything as definite as a chronology of Aristotle's works, and there, as I have said, we can only hope for a few cases which have a certain plausibility. These few cases are not without philosophical interest, and they are that the core of the theory of Aristotle's works.

29. Of course, Aristotle's writings do not include neither the sentence "The physics" nor the sentence "The physics" but even one or two before Met B" and "Met B was simply too late for our tradition that it is too late even for the

- [read Xenakis: His Life in Music](#)
- [read **A Buzz in the Meadow: The Natural History of a French Farm**](#)
- [download **A Choir of Ill Children**](#)
- [download online **The Journey of Robert Monroe: From Out-of-Body Explorer to Consciousness Pioneer**](#)

- <http://reseauplatoparis.com/library/Investing-in-Real-Estate--7th-Edition-.pdf>
- <http://yachtwebsitedemo.com/books/Handwriting-in-America--A-Cultural-History.pdf>
- <http://honareavalmusic.com/?books/The-Case-for-a-Carbon-Tax--Getting-Past-Our-Hang-ups-to-Effective-Climate-Policy.pdf>
- <http://www.uverp.it/library/The-Journey-of-Robert-Monroe--From-Out-of-Body-Explorer-to-Consciousness-Pioneer.pdf>