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Three Kinds or Grades of Phantasia in Aristotle's De Anima*

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Phantasia/imagination (φαντασία) in Aristotle is one of the parts (μόρια) or faculties/powers (δυνάμεις) of the soul that cannot exist apart from sensation (αἴσθησις) and thought (διάνοια). The function of *phantasia* and its connection with *phantasmata* (φαντάσματα), the products of this faculty, plays a significant role in the psychological treatises of the Aristotelian Corpus. The purpose of this paper is to examine the concept of *phantasia* in Book III, Chapter 3 of *De Anima*, and to show that the Stageirite philosopher distinguishes three and not two kinds of *phantasia*, starting from the lowest, which is found in imperfect creatures, to the highest, which appears only in the human beings.

Introduction

Aristotle's *De Anima* ($\Pi \epsilon \varrho i \Psi \upsilon \chi \tilde{\eta} \varsigma$) is one of the major treatises. In this treatise the nature and the role of the soul ($\psi \upsilon \chi \tilde{\eta} \varsigma$) are analyzed and for this reason it is often characterized as Aristotle's psychology. Most of the discussion is concerned with 'mental' functions, however there is also a certain amount of physiology and biology. As Michael Durrant stresses «the *De Anima* presents the first *systematic* attempt to deal with a whole range of topics and problems falling under the general heading of 'Philosophical Psychology'»¹.

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In this paper I shall try to elaborate systematically the role of *phantasia*/imagination ($\phi \alpha \nu \tau \alpha \sigma i \alpha$) and its relation to *phantasmata* ($\phi \alpha \nu \tau \alpha \sigma \mu \alpha \tau \alpha$), namely the products of the faculty/power of *phantasia*, in Aristotle's *De Anima*. To be more precise, I shall examine the unified concept of *phantasia* in *De Anima* as follows:

I. I shall present briefly Aristotle's concepts of the various parts ($\mu \dot{0} \varrho \iota \alpha$) or faculties/powers ($\delta \upsilon \upsilon \dot{\alpha} \mu \epsilon \iota \varsigma$) of the soul. Namely, I shall focus my attention on the Aristotelian psychic faculties/powers and the way they correlate with the living beings.

II. I shall outline and explore the notion of *phantasia*, which is described by the Stageirite philosopher as: (a) the faculty/power ($\delta \dot{\nu} \nu \alpha \mu \varsigma$) by which a *phantasma* is presented to us («εἰ δή ἐστιν ή φαντασία καθ' ῆν λέγομεν φάντασμά τι ήμῖν γίγνεσθαι»)², (b) the faculty/power which is not sensation (αἴσθησις), or opinion ($\delta \delta \xi \alpha$), or knowledge (ἐπιστήμη), or intellect ($\nu o \tilde{\nu} \varsigma$), and (c) the type of motion (κίνησις), which is generated by actual perception («ή φαντασία ἂν εἴη κίνησις ὑπὸ τῆς αἰσθήσεως τῆς κατ' ἐνέργειαν γιγνομένη»)³. Furthermore, I shall argue that we need to be very careful about how we interpret the word «φάντασμα» in the Aristotelian texts.

III. Finally, I shall try to demonstrate that when we study in depth the notion of *phantasia* ($\phi \alpha \nu \tau \alpha \sigma i \alpha$), as it is described in Book III of *De Anima*, we can realize that Aristotle speaks about three and not two kinds or grades of *phantasia*.

I. Parts (Μόρια) or Faculties/Powers (Δυνάμεις) of the Soul

In Book II, Chapter 1 of *De Anima* Aristotle describes the soul as «ἐντελέχεια ή π ρώτη σώματος φυσικοῦ ὀργανικοῦ» («the first actuality of a natural organic

¹ Aristotle, *Aristotle's De Anima in Focus*, edited by Michael Durrant (London and New York: Routledge, 1993), p. 3.

² Aristotle, *De Anima*, III, 3, 428 a 1-2.

³ *Ibid.*, III, 3, 429 a 1-2.

body»)⁴. The soul is organically connected with the body. The soul is the form $(\mu o \rho \phi \dot{\eta} \text{ or } \epsilon \tilde{\iota} \delta o \varsigma)$ of the body, while the body is the matter $(\check{\upsilon} \lambda \eta)$ of the soul (hylomorphism). According to Aristotle, the soul is inseparable from the body. The soul and body are not two separate entities but *one* composite substance.

In addition, the philosopher distinguishes different parts ($\mu \delta \rho \mu \alpha$) or faculties/powers ($\delta \nu \nu \dot{\alpha} \mu \epsilon \iota \varsigma$) of the soul corresponding to different kinds of living beings. These parts perform, as we shall see later in the present paper, specific functions; however they form a unified whole.

Aristotle in Book III of *De Anima* refers to an infinite number of parts of the soul:

«ἔχει δὲ ἀπο
ρίαν εὐθὺς πῶς τε δεῖ μόρια λέγειν τῆς ψυχῆς καὶ πόσα.
τρόπον γάρ τινα ἄπειρα φαίνεται»⁵.

But which are the parts ($\mu \dot{0} \varrho \alpha$) or faculties/powers ($\delta \upsilon \upsilon \dot{\alpha} \mu \epsilon \iota \varsigma$) of the soul according to Aristotle? The Stageirite philosopher defines the soul as «τοῦτο ῷ ζῶμεν καὶ αἰσθανόμεθα καὶ διανοούμεθα πρώτως·» («that with which we primarily live, perceive and think»)⁶ and as that which is associated with the following faculties/powers ($\delta \upsilon \upsilon \dot{\alpha} \mu \epsilon \iota \varsigma$). In the next passages Aristotle distinguishes three faculties of the soul:

(a) De Generatione Animalium, Book II, Chapter 3, 736 b 8-14:

«Τὴν μὲν οὖν θρεπτικὴν ψυχὴν⁷ τὰ σπέρματα καὶ τὰ κυήματα τὰ <ἀ>χώριστα δῆλον ὅτι δυνάμει μὲν ἔχοντα θετέον, ἐνεργεία δ' οὐκ ἔχοντα, πρὶν ἢ καθάπερ τὰ χωριζόμενα τῶν κυημάτων ἕλκει τὴν τροφὴν καὶ ποιεῖ τὸ τῆς τοιαύτης ψυχῆς

⁴ *Ibid.*, II, 1, 412 b 5-6. This is the last of the three general definitions of the soul outlined by Aristotle in Book II, Chapter 1 of the treatise *De Anima*. The other two are the following: (i) *Ibid.*, II, 1, 412 a 19-21: «τὴν ψυχὴν οὐσίαν εἶναι ὡς εἶδος σώματος φυσικοῦ δυνάμει ζωὴν ἔχοντος», «the soul is substance in the sense of a natural body having life in potentiality» and (ii) *Ibid.*, II, 1, 412 a 21-22: «ἡ δ' οὐσία ἐντελέχεια[·] τοιούτου ἄρα σώματος ἐντελέχεια», «And substance is actuality. Therefore it is actuality of such as this body».

⁵ Aristotle, *op. cit.*, III, 9, 432 a 22-24: «in what sense we are to speak of parts of the soul and how many they are. For in a sense their number is innumerable».

⁶ *Ibid.*, II, 2, 414 a 12-13.

⁷ The emphasis in the present paper is added.

ἔργον· πρῶτον μὲν γὰρ ἄπαντ' ἔοικε ζῆν τὰ τοιαῦτα φυτοῦ βίον. ἑπομένως δὲ δῆλον ὅτι καὶ περὶ τῆς αἰσθητικῆς λεκτέον ψυχῆς καὶ περὶ τῆς νοητικῆς·»⁸

(b) De Anima, Book II, Chapter 4, 415 a 14-18 and Book III, Chapter 9, 432 b 6-7:

«Άναγκαῖον δὲ τὸν μέλλοντα περὶ τούτων σκέψιν ποιεῖσθαι λαβεῖν ἕκαστον αὐτῶν τί ἐστιν, εἶθ᾽ οὕτως περὶ τῶν ἐχομένων καὶ περὶ τῶν ἄλλων ἐπιζητεῖν. εἰ δὲ χρὴ λέγειν τί ἕκαστον αὐτῶν, οἶον τί τὸ νοητικὸν ἢ τὸ αἰσθητικὸν ἢ τὸ θρεπτικόν, πρότερον ἔτι λεκτέον τί τὸ νοεῖν καὶ τί τὸ αἰσθάνεσθαι·»⁹

«εἰ δὲ τρία ή ψυχή»¹⁰.

(c) Ethica Nicomachea, Book I, Chapter 7, 1098 a 1-5:

«ἀφοριστέον ἄρα τὴν τε θρεπτικὴν καὶ τὴν αὐξητικὴν ζωήν. ἑπομένη δὲ αἰσθητική τις ἂν εἶη· φαίνεται δὲ καὶ αὐτὴ κοινὴ καὶ ἵππῷ καὶ βοῗ καὶ παντὶ ζῷῷ. λείπεται δὴ πρακτική τις τοῦ λόγον ἔχοντος· τούτου δὲ τὸ μὲν ὡς ἐπιπειθὲς λόγῷ, τὸ δ' ὡς ἔχον καὶ διανοούμενον»¹¹.

As it has been shown these faculties are: (a) the nutritive $(\theta \varrho \epsilon \pi \tau \iota \kappa \eta)$, (b) the sensitive $(\alpha i \sigma \theta \eta \tau \iota \kappa \eta)$, and (c) the rational $(\nu o \eta \tau \iota \kappa \eta)$ faculty/power of the soul.

The nutritive faculty/power (θρεπτική δύναμη) of the soul, being the same as the reproductive (γεννητική) («ἐπεὶ δ' ἡ αὐτὴ δύναμις τῆς ψυχῆς θρεπτικὴ καὶ

⁸ Aristotle, *De Generatione Animalium*, II, 3, 736 b 8-14: «As regards *nutritive Soul*, then, it is clear that we must posit that semens and fetations which are not separated <from the parent> possess it *potentially*, though not in *actuality*—i.e., not until they begin to draw the nourishment to themselves and perform the function of nutritive Soul, as fetations which get separated <from the parent> do; for to begin with it seems that all things of this sort live the life of a plant. And it is clear we should follow a similar line also in our statements about *sentient* [or *sensitive*] *Soul* and *rational Soul*» trans. by A. Peck.

⁹ Aristotle, *De Anima*, II, 4, 415 a 14-18: «The enquirer who approaches this subject must ascertain what each of these faculties is before he proceeds to investigate the questions next in order and so forth. But if we are asked to state what each of these is; that is to say, what the *rational*, *sensitive and nutritive faculties/powers* respectively are, we must begin by stating what thinking is and what sense perception is» see R. D. Hicks.

¹⁰ *Ibid.*, III, 9, 432 b 6-7: «and if *the soul is tripartite*».

¹¹ Aristotle, *Ethica Nicomachea*, I, 7, 1098 a 1-5: «Let us exclude, therefore, the life of nutrition and growth. Next there would be a life of perception, but it also seems to be common even to the horse, the ox, and every animal. There remains, then, an active life of the element that has a rational principle; of this, one part has such a principle in the sense of being obedient to one, the other in the sense of possessing one and exercising thought» trans. by W. D. Ross.

γεννητική»)¹², exists in all living beings, including plants and animals. It is the first and most common faculty of the soul and is essential to all livings beings. Its works are reproduction and nutrition («ή γὰο θρεπτικὴ ψυχὴ καὶ τοῖς ἄλλοις ὑπάρχει, καὶ πρώτη καὶ κοινοτάτη δύναμίς ἐστι ψυχῆς, καθ' ῆν ὑπάρχει τὸ ζῆν ἅπασιν. ἦς ἐστὶν ἔργα γεννῆσαι καὶ τροφῆ χρῆσθαι»)¹³. It does it's own work better when the animal is asleep than when it is awake¹⁴.

Next comes the sensitive faculty/power ($\alpha i\sigma \theta \eta \tau \kappa \eta'$) of the soul, which exists in all animals. In plants there is no sensitive faculty/power apart from the nutritive. The sensitive part of the soul cannot exist without the nutritive, and it exists not in actuality ($\dot{\epsilon}\nu\epsilon\rho\gamma\epsilon i\alpha$), but only in potentiality ($\delta\nu\nu\dot{\alpha}\mu\epsilon\iota$)¹⁵.

Finally, species like man have in addition the rational ($\nu o\eta \tau \iota \kappa \delta \nu$) or discursive ($\delta \iota \alpha \nu o\eta \tau \iota \kappa \delta \nu$) faculty/power of the soul and the mind/intellect ($\nu o \tilde{\nu} \varsigma$):

«ἐνίοις δὲ πρὸς τούτοις ὑπάρχει καὶ τὸ κατὰ τόπον κινητικόν, ἑτέροις δὲ καὶ τὸ δ ιανοητικόν τε καὶ νοῦς, οἶον ἀνθρώποις καὶ εἴ τι τοιοῦτον ἕτερόν ἐστιν ἢ τιμιώτερον»¹⁶.

¹² Aristotle, *De Anima*, II, 4, 416 a 19-20.

¹³ *Ibid.*, II, 4, 415 a 23-26.

¹⁴ See also Aristotle, *De Anima*, II, 2, 413 b 7-8: «θρεπτικόν δὲ λέγομεν τὸ τοιοῦτον μόριον τῆς ψυχῆς οὖ καὶ τὰ φυόμενα μετέχει», «by the *nutritive part* we mean that part of the soul which is common even to plants». *Ibid.*, II, 3, 414 a 32-33: «ὑπάρχει δὲ τοῖς μὲν φυτοῖς τὸ θρεπτικὸν μόνον», «plants have only the *nutritive part». Ibid.*, III, 9, 432 a 28-29: «τὸ τε θρεπτικόν, ὃ καὶ τοῖς φυτοῖς ὑπάρχει καὶ πᾶσι τοῖς ζώοις», «the *nutritive part*, which belongs to plants and to all animals». Idem., *Ethica Eudemia*, II, 1, 1219 b 22-23: «ἐν τῷ ὕπνῳ γὰρ μᾶλλον ἐνεργεῖ τὸ θρεπτικὸν», «for the *nutritive part* functions more in sleep» etc.

¹⁵ See Aristotle, *De Anima*, II, 3, 414 a 32-414 b 1: «ὑπάρχει δὲ τοῖς μὲν φυτοῖς τὸ θρεπτικὸν μόνον, ἑτέροις δὲ τοῦτὸ τε καὶ τὸ αἰσθητικόν», «plants have only the nutritive part, while other [living beings] have this and in addition the *sensitive part*». *Ibid.*, II, 3, 415 a 1-3: «ἄνευ μὲν γὰρ τοῦ θρεπτικοῦ τὸ αἰσθητικὸν οὐκ ἔστιν τοῦ δ' αἰσθητικοῦ χωρίζεται τὸ θρεπτικὸν ἐν τοῖς φυτοῖς», «the *sensitive part* does not exist without the nutritive; but in plants the nutritive part exists without the *sensitive part* does not exist without the nutritive; but in plants the nutritive part exists without the *sensitive part* is in actuality not in potentiality». Idem., *Ethica Eudemia*, II, 1, 1219 b 23-24: «τὸ δ' αἰσθητικὸν καὶ ὀρεκτικὸν ἀτελῆ ἐν τῷ ὕπνω», «the *sensitive* parts are ineffective/incomplete in sleep» etc.

¹⁶ Aristotle, *De Anima*, II, 3, 414 b 16-19.

The ancient Aristotelian commentator, Philoponus, explains «διανοητικόν»¹⁷, namely the discursive faculty/power of the soul, as «δυνάμει νοῦς», namely as the «potential mind»:

«ἑτέροις καὶ τὸ διανοητικόν, ὅπερ ἐστὶ δυνάμει νοῦς, οἶον ἐν ἀνθρώποις»¹⁸.

The «potential mind» is analogous to the «passive mind», «which becomes all things» («τῷ πάντα γίνεσθαι»)¹⁹. Apart from the «potential mind» there is also the «ἐνεϱγεία or ἐντελεχεία νοῦς» (actuality mind), which is analogous to the «ποιητικὸς νοῦς» (active mind). So, according to the previous remarks we could say that in line 414 b 18 of *De Anima* the term «νοῦς» («mind») probably refers to the «active mind», which is the superior part of the soul. This part of the soul is strongly related to the discursive (διανοητικόν) part of the soul, and their difference is indiscernible (indistinguishable). Consequently, when Aristotle says that «others have also the discursive faculty/power and mind» («ἐτέϱοις δὲ καὶ τὸ διανοητικόν τε καὶ νοῦς») he probably means that: (a) the discursive faculty/power is this part of the soul where the passive mind acts, and (b) the mind is the active mind, which is the superior part of the soul²⁰.

¹⁷ *Ibid.*, II, 3, 414 b 18.

¹⁸ Ioannes Philoponus, Aristotelis de Anima, 15, 255, 4-5.

¹⁹ Aristotle, *op. cit.*, III, 5, 430 a 14-15. The «passive mind», which is called by Simplicius (Idem., *Aristotelis De Anima*, 11, 242, 17-18: «Ό τοιοῦτος ὁ ὡς ὕλη· πρὸς γὰρ τὸ ἔσχατον ἀποδίδοται καὶ ὅπως ὡς ὕλη, ἐδήλωσεν, ὅτι τῷ πάντα γίγνεσθαι») and Alexander of Aphrodisias (Idem., *De Anima*, 81, 24-25: «ὑλικὸς νοῦς καλεῖταί τε καὶ ἔστι (πῶν γὰρ τὸ δεκτικόν τινος ὕλη ἐκείνου)») as «ὑλικὸς νοῦς» («mind which is like matter»), is a mind which becomes all the intelligible objects («τὰ νοητά»). And since this mind is like matter, and matter as Aristotle says is identical to potentiality (Aristotle, *De Anima*, II, 1, 412 a 9: «ἔστι δ' ἡ μὲν ὕλη δύναμις»), then this mind is a «potential mind» («δυνάμει νοῦς»). This mind is receptive of the forms of the objects. It is a kind of substratum that receives the forms («εἴδη») of the intelligible objects.

²⁰ In a certain chapter of my dissertation [see Christina S. Papachristou, *The Cognitive Process in the Aristotelian Philosophy: Αἴσθησις (Sense), Αἴσθημα (Sensation), Φαντασία (Phantasia), Φάντασμα (Phantasma), Μνήμη (Memory), Μνημόνευμα (Mnemonic Image), Νοῦς (Mind), Νόημα (Noêma),* Ph.D. Thesis (in Greek) (Thessaloniki: Aristotle University of Thessaloniki, 2008), Part 4, Ch. 3, pp. 273-300] I consider and I try to rebut several arguments that commentators have advanced in favor of the thesis that in *De Anima*, III, 5 Aristotle is referring to two distinct minds, which correspond to the human (παθητικός νοῦς) and the active mind (ποιητικός νοῦς), which is analogous, as certain Aristotelian scholars believe, to the divine mind. Besides that, I argue that this

Aristotle in lines 413 b 11-13 determines the soul according to the following faculties/powers, the nutritive, sensitive, discursive and locomotive:

«νῦν δ' ἐπὶ τοσοῦτον εἰϱήσθω μόνον, ὅτι ἐστὶν ἡ ψυχὴ τῶν εἰϱημένων τούτων ἀρχὴ καὶ τούτοις ὥρισται, θρεπτικῷ, αἰσθητικῷ, διανοητικῷ, κινήσει»²¹.

As we can see in this passage, the philosopher adds another part or faculty of the soul, the locomotive ($\kappa i \nu \eta \sigma \iota \varsigma \Rightarrow \kappa \iota \nu \eta \tau \iota \kappa \delta \nu \kappa \alpha \tau \lambda \tau \delta \pi \sigma \nu$). This faculty is related to the local movement of animals and is also described as the «progressive motion» («ποφευτική κίνησις»):

«τί τὸ κινοῦν κατὰ τόπον τὸ ζῷόν ἐστιν;...ἀλλὰ περὶ τῆς κατὰ τόπον κινήσεως, τί τὸ κινοῦν τὸ ζῷον τὴν πορευτικὴν κίνησιν, σκεπτέον»²².

In lines 414 a 31-32 Aristotle adds another faculty of the soul, the appetitive (ὀρεκτικόν):

«δυνάμεις δ' εἴπομεν θρεπτικόν, ἀρεκτικόν²³, αἰσθητικόν, κινητικὸν κατὰ τόπον, διανοητικόν»²⁴.

And in lines 414 b 1-2 he says that:

²¹ Aristotle, *De Anima*, II, 2, 413 b 11-13.

²² *Ibid.*, III, 9, 432 b 8-14.

²³ See *Ibid.*, III, 9, 432 b 3-4, «πρὸς δὲ τούτοις τὸ ὀρεκτικόν, ὃ καὶ λόγῳ καὶ δυνάμει ἕτερον ἄν δόξειεν εἶναι πάντων», «In addition to these there is the *appetitive faculty*, which would seem to be different from all both in concept and in potentiality». *Ibid.*, III, 10, 433 a 21: «ἐν δή τι τὸ κινοῦν τὸ ὀρεκτικόν», «Thus that which produces movement is one in kind, *the appetitive faculty*». *Ibid.*, III, 10, 433 b 27-29: «ὅλως μὲν οὖν, ὥσπερ εἴρηται, ἡ ὀρεκτικὸν τὸ ζῷον, ταύτῃ ἑαυτοῦ κινητικόν· ὀρεκτικὸν δὲ οὐκ ἄνευ ϕαντασίας·», «thus, in general, as we have already said, the animal is capable of movement itself so far as it is *appetitive*· and it cannot be *appetitive* without imagination». Idem., *Ethica Eudemia*, II, 1, 1219 b 23-24: «τὸ δ' αἰσθητικὸν καὶ ὀρεκτικὸν ἀτελῆ ἐν τῷ ὕπνῷ», «the sensitive and *appetitive* parts are ineffective/incomplete in sleep» etc.

division is related to the duality of a single mind, and I put forward the view that this distinction could find its parallel in the distinction between the physical brain (the physical and biological matter contained within the skull) and the energetic function of thought [Charalambos S. Ierodiakonou, *Psychological Issues in the Writings of Aristotle* (in Greek) (Thessaloniki: Mastorides, 2004), p. 243]. Cf. also Christina S. Papachristou, «The Puzzling Role of the Brain in Aristotle's Theory of Sense Perception», herausgeber von Jochen Althoff, Sabine Føllinger, Georg Wöhrle, *Antike Naturwissenschaft und ihre Rezeption*, Band XVIII (Trier: Wissenschaftlicher Verlag, 2008), pp. 18-19.

²⁴ Aristotle, *De Anima*, II, 3, 414 a 31-32.

«εἰ δὲ τὸ αἰσθητικόν, καὶ τὸ ὀ
ρεκτικὸν· ὄρεξις μὲν γὰρ ἐπιθυμία καὶ θυμὸς καὶ βούλησις
»²⁵.

The previous remark allows us to assert that the appetitive power (ἀρεκτικόν) is part of the sensitive power (αἰσθητικόν) or that the possession of the sensitive faculty involves the possession of the appetitive faculty. In other words, ὀρεκτικόν belongs to everything that has sensation.

Elsewhere, specifically in lines 432 b 3-6, Aristotle says:

«ποὸς δὲ τούτοις τὸ ὀρεκτικόν, ὃ καὶ λόγῷ καὶ δυνάμει ἕτερον ἂν δόξειεν εἶναι πάντων. καὶ ἄτοπον δὴ τὸ τοῦτο διασπᾶν· ἔν τε τῷ λογιστικῷ γὰρ ἡ βούλησις γίνεται, καὶ ἐν τῷ ἀλόγῷ ἡ ἐπιθυμία καὶ ὁ θυμός·»²⁶

Therefore, the philosopher remarks here that the appetitive faculty is both rational ($\eta \beta o \psi \lambda \eta \sigma \iota \varsigma$, namely wish) and irrational ($\eta \epsilon \pi \iota \theta \upsilon \mu \iota \alpha \kappa \alpha \iota \delta \theta \upsilon \mu \delta \varsigma$, namely desire and spiritedness).

Aristotle in lines 432 a 28- 432 b 4 adds another part of the soul, the imaginative $(\phi \alpha \nu \tau \alpha \sigma \tau \kappa \delta \nu)^{27}$, which is distinct from the other parts ($\mu \delta \varrho \alpha$) or faculties ($\delta \nu \nu \dot{\alpha} \mu \epsilon \iota \varsigma$), and it is difficult to say with which of the parts it is identical or not:

²⁵ *Ibid.*, II, 3, 414 b 1-2: «and if any class of living things has the sensitive [faculty/power] it must also have the appetitive; where under appetite we include desire, spiritedness and wish».

²⁶ *Ibid.*, III, 9, 432 b 3-6: «In addition to these there is the appetitive faculty, which would seem to be different from all both in concept and in potentiality. And it is absurd to separate this; For in the rational part of the soul corresponds wish and in the irrational part of the soul desire and spiritedness».

²⁷ See Aristotle, *De Insomniis et De Divinatione per Somnun*, I, 458 b 29-31: «ἀλλ' εἴτε δὴ ταὐτὸν εἴθ' ἕτεϱον τὸ φανταστικὸν τῆς ψυχῆς καὶ τὸ αἰσθητικόν, οὐδὲν ἦττον οὐ γίνεται ἄνευ τοῦ ὁϱᾶν καὶ αἰσθάνεσθαί τι», «But whether *the imaginative faculty* of the soul and the sensitive are the same or different, nevertheless the affection does not occur without our seeing or perceiving something». *Ibid.*, I, 459 a 14-22: «ἐπεὶ δὲ πεϱὶ φαντασίας ἐν τοῖς πεϱὶ ψυχῆς εἴϱηται, καὶ ἔστι μὲν τὸ αὐτὸ τῷ αἰσθητικῷ τὸ φανταστικόν, τὸ δ' εἶναι φανταστικῷ καὶ αἰσθητικῷ ἕτεϱον, ἔστι δὲ φαντασία ἡ ὑπὸ τῆς κατ' ἐνέϱγειαν αἰσθήσεως γινομένη κίνησις, τὸ δ' ἐνύπνιον φάντασμά τι φαίνεται εἶναι (τὸ γὰϱ ἐν ὕπνῷ φάντασμα ἐνύπνιον λέγομεν, εἴθ' άπλῶς εἴτε τϱόπον τινὰ γινόμενον), φανεϱὸν ὅτι τοῦ αἰσθητικῶ μέν ἐστι τὸ ἐνυπνιάζειν, τούτου δ' ἦ φανταστικόν», «And since *phantasia* has been discussed in [the treatise] on the soul, and *the imaginative faculty* is the same as the sensitive, though their function is different for the *imaginative* and the sensitive; and *phantasia* is the movement produced by the active sense, and the dream appears to be a kind of *phantasma* (for a *phantasma* which appears in sleep, is what we call a dream, whether it occurs simply or in a particular way), it is obvious that dreaming is the work of the sensitive faculty, but belongs to this faculty qua *imaginative* see D. Gallop.

«περὶ ὦν καὶ νῦν εἴρηται, τό τε θρεπτικόν, ὃ καὶ τοῖς φυτοῖς ὑπάρχει καὶ πᾶσι τοῖς ζώοις, καὶ τὸ αἰσθητικόν, ὃ οὐτε ὡς ἄλογον οὐτε ὡς λόγον ἔχον θείη ἄν τις ἑαδίως. ἔτι δὲ τὸ φανταστικόν, ὃ τῷ μὲν εἶναι πάντων ἕτερον, τίνι δὲ τούτων ταὐτὸν ἢ ἕτερον, ἔχει πολλὴν ἀπορίαν, εἴ τις θήσει κεχωρισμένα μόρια τῆς ψυχῆς. πρὸς δὲ τούτοις τὸ ὀρεκτικόν, ὃ καὶ λόγῷ καὶ δυνάμει ἕτερον ἂν δόξειεν εἶναι πάντων»²⁸.

Consequently, according to the previous analysis, the parts ($\mu \delta \varrho \alpha$) or faculties ($\delta \upsilon \nu \dot{\alpha} \mu \epsilon \iota \varsigma$) of the soul—«with an order of succession within...living beings...going from the most widely shared to the less widely shared capacities»²⁹—can be summed up in the following table:

Aristotle's Division of the Parts or Faculties/Powers of the Soul

1. Nutritive (Θρεπτικόν) or Reproductive (Γεννητικόν)

2. Appetitive (desire, spiritedness, wish) [Όρεκτικόν (ἐπιθυμία, θυμός, βούλησις)]

3. Sensitive (Αἰσθητικόν)

4. Locomotive/Motive according to place (Κινητικόν κατὰ τόπον)

5. Imaginative (Φανταστικόν)

6. (a) Rational (Νοητικόν) or Discursive $(\Delta ι ανοητικόν)^{30} \Rightarrow$ Passive Mind (Παθητικός Νοῦς)

 $^{^{28}}$ Aristotle, *De Anima*, III, 9, 432 a 28-432 b 4: «those [parts] which we have just discussed, the nutritive, which belongs both to plants and to all animals, and the sensitive, which could not easily be classed either as irrational or rational. There is also the imaginative, which is different from all of them, while it is very difficult to say with which of them it is identical or not identical, if someone will set up separate parts of the soul. In addition to these there is the appetitive, which would seem to be different from all both in concept and in potentiality».

²⁹ Ronald Polansky (ed.), *Aristotle's De Anima: A Critical Commentary* (Cambridge, New York: Cambridge University Press, 2007), p. 9.

³⁰ For a useful analysis of the meanings νοητικόν and διανοητικόν cf. Klaus Oehler, Die Lehre vom Noetischen und Dianoetischen Denken bei Platon und Aristoteles: Ein Beitrag zur Erforschung der

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(b) Mind $(No\tilde{v}\varsigma) \Rightarrow$ the Active Mind $(\Pi ointiko \varsigma No\tilde{v}\varsigma)$ acts on the Passive Mind

Table 1

II. Phantasia (Φαντασία) and Phantasma (Φάντασμα) in De Anima III, 3^{31}

It is generally agreed that Aristotle analyses the function of *phantasia* $(\phi \alpha \nu \tau \alpha \sigma (\alpha)^{32}$ and its relation to *phantasmata* $(\phi \alpha \nu \tau \alpha \sigma \mu \alpha \tau \alpha)$ in his psychological treatises³³. *Phantasia* $(\phi \alpha \nu \tau \alpha \sigma (\alpha)^{34}$ is the main subject of discussion in *De Anima* III, 3³⁵.

³² Even though the Greek word '*phantasia*' is usually translated it as 'imagination', I prefer to leave the word untranslated. I believe that the word 'imagination' does not convey Aristotle's notion of '*phantasia*' as honestly and as understandably as possible.

³³ Aristotle's psychological treatises are *De Anima* (Περὶ Ψυχῆς) and *Parva Naturalia* (Μικρὰ Φυσικά). The *Parva Naturalia* is a collection of short treatises: (1) *De Sensu et Sensibilibus* (Περὶ Αἰσθήσεως καὶ Αἰσθητῶν). (2) *De Memoria et Reminiscentia* (Περὶ Μνήμης καὶ Ἀναμνήσεως). (3) *De Somno et Vigilia* (Περὶ Ἅπνου καὶ Ἐγρηγόρσεως). (4) *De Insomniis* (Περὶ Ἐνυπνίων). (5) *De Divinatione per Somnun* (Περὶ τῆς Καθ' Ἅπνου Μαντικῆς). (6) *De Longitudine et Brevitate Vitae* (Περὶ Μακροβιότητος καὶ Βραχυβιότητος). (7) *De Iuventute et Senectute* (Περὶ Νεότητος καὶ Γήρως). (8) *De Vita et Morte* (Περὶ Ζωῆς καὶ Θανάτου). (9) *De Respiratione* (Περὶ Ἀναπνοῆς). In addition the Stageirite philosopher investigates briefly several psychological phenomena in his political [e.g. *Politica* (Πολιτικά)], metaphysical [e.g. *Metaphysica* (Μετὰ τὰ Φυσικά)], ethical [e.g. *Ethica Nicomachea* (Ἡθικὰ Νικομάχεια)], and biological [e.g. *De Motu Animalium* (Περὶ Ζώων Κινήσεως)] treatises.

³⁴ Some indicative readings for the Aristotelian notion of *phantasia* are listed below: Jakob Freudenthal, Ueber den Begriff des Wortes Φαντασία bei Aristoteles (Göttingen: 1863). David A. Rees, «Aristotle's Treatment of Φαντασία», in J. P. Anton and G. L. Kustas (eds.), Essays in Ancient Greek Philosophy, (Albany, New York: State University of New York Press, 1971), pp. 491-504. Malcolm Schofield, «Aristotle on Imagination», in G. E. R. Lloyd and G. E. L. Owen (eds.), Aristotle on Mind and the Senses: Proceedings of the Seventh Symposium Aristotelicum [Cambridge: Cambridge University Press, 1978 (1975¹)], pp. 99-140. Joyce Engmann, «Imagination and Truth in Aristotle», Journal of the History of Philosophy 14 (1976): pp. 259-65. Martha C. Nussbaum, «The Role of

Geschichte des Bewussteinsproblems in der Antike (München: Zetemata, Heft 29, C. H. Beck, 1962), pp. 131-244.

³¹ An earlier version of this topic was presented at the 35th Annual Conference of the Panhellenic Association of Philologist: *Aristotle: Leading Teacher and Thinker* (October 6-8, 2008, Benaki Museum, Athens). Cf. Christina S. Papachristou, «The Influence of the Aristotelian Theory of *Phantasia* in the Stoic Philosophy and in the Scientific Work of George J. Romanes» (in Greek), in Anastasios Stephos – Spiros Touliatos (eds.), *Seminar 36: Aristotle: Leading Teacher and Thinker*, (Athens: Ellinoekdotiki, Panhellenic Association of Philologist, 2009), pp. 72-89.

«εἰ δή ἐστιν ἡ φαντασία καθ' ἢν λέγομεν φάντασμά τι ἡμῖν γίγνεσθαι»³⁶.

According to the contemporary view of 'imagination' – *phantasia* – we define 'imagination' as the capacity or power of the mind to create, to recombine or reproduce and to call up mental images of objects, events, faces or scenes, which are not present to the senses³⁷.

Aristotle's concept of *phantasia* in comparison to the contemporary concept of 'imagination' has a wider meaning. David Ross, in his book entitled *Aristotle*, lists the main functions of *phantasia* as: (a) the formation of after-images; (b) memory $(\mu\nu\eta\mu\eta)$; (c) recollection $(\alpha\nu\alpha\mu\nu\eta\sigma\iota\varsigma)$; (d) dreams $(\epsilon\nu\nu\sigma\nu\iota\alpha)$; (e) in relation to desire $(\epsilon\pi\iota\theta\nu\mu\iota\alpha)$; (f) in relation to thought (τὸ νοητικόν)³⁸.

Phantasia in Aristotle's Explanation of Action», in *Aristotle's De Motu Animalium: Text with Translation, Commentary, and Interpretative Essays* by Martha C. Nussbaum (Princeton, New Jersey: Princeton University Press, 1978), pp. 221-269. Kevin White, «The Meaning of *Phantasia* in Aristotle's *De Anima*, III, 3-8», *Dialogue* 24 (1985): pp. 483-505. Deborah K. W. Modrak, «Phantasia Reconsidered», *Archiv für Geschichte der Philosophie* 66 (1986): pp. 47-69. Michael V. Wedin, *Mind and Imagination in Aristotle* (New Haven and London: Yale University Press, 1988). Dorothea Frede, «The Cognitive Role of *Phantasia* in Aristotle», in M. C. Nussbaum and A. O. Rorty (eds.), *Essays on Aristotle's De Anima*, [Oxford: Clarendon Press, 1996 (1992¹)], pp. 279-295. Victor Caston, «Why Aristotle Needs Imagination», *Phronesis* 41, Number 1 (1996): pp. 20-55. Kenneth Turnbull, «De Anima iii 3*», in L. P. Gerson (ed.), *Aristotle: Critical Assessments, Vol. I: Psychology and Ethics*, (London and New York: Routledge, 1999), pp. 83-120 etc.

³⁵ Castoriadis argues that «Aristotle discovers the imagination philosophically – *phantasia* – but what he says about it thematically, when he treats it *ex professo* (fixing the imagination in its alleged place, between sensation, of which it would be a reproduction, and intellection, thereby governing for 25 centuries what everybody thinks about it) is of little consequence next to what he has truly to say about it, which he says elsewhere, and which he has no way of reconciling with what he thinks about *phusis*, the soul, thinking and being». See Cornelius Castoriadis, *The Imaginary Institution of Society*, translated by Kathleen Blarney [Cambridge: MIT Press, 1998 (1975¹)], pp. 174-175.

³⁶ Aristotle, *De Anima*, III, 3, 428 a 1-2: *«phantasia* is the faculty/power by which a *phantasma* [(mental) representation] is presented to us».

³⁷ See Ted Honderich (ed.), *The Oxford Companion to Philosophy* (Oxford, New York: Oxford University Press, 1995), p. 395.

³⁸ See Sir David Ross, *Aristotle*, with a new introduction by John L. Ackrill [New York: Routledge, 1995 (1923¹)], pp. 90-91.

³⁹ Malcolm Schofield, «Aristotle on Imagination», in G. E. R. Lloyd and G. E. L. Owen (eds.), *Aristotle on Mind and the Senses: Proceedings of the Seventh Symposium Aristotelicum* [Cambridge: Cambridge University Press, 1978 (1975¹)], p. 99.

«μάλιστα δ' ἔοικεν ἴδιον τὸ νοεῖν· εἰ δ' ἐστὶ καὶ τοῦτο φαντασία τις ἢ μὴ ἄνευ φαντασίας, οὐκ ἐνδέχοιτ' ἂν οὐδὲ τοῦτ' ἄνευ σώματος εἶναι»⁴⁰.

Aristotle remarks that *phantasia* ($\phi \alpha v \tau \alpha \sigma (\alpha)$) is different from sensation ($\alpha i \sigma \theta \eta \sigma \iota \varsigma$), and thought ($\delta \iota \alpha v \circ \iota \alpha$)⁴¹. And that means that Aristotle's conception of *phantasia* differs from that of Plato's *Sophist*. In other words, *phantasia* for Aristotle is not «a mixture of sensation and judgement» (« $\sigma \circ \mu \mu \epsilon \iota \varsigma \alpha i \sigma \theta \eta \sigma \epsilon \sigma \kappa \alpha i \delta \delta \xi \eta \varsigma$ »), as Plato believed⁴². Also the Stageirite philosopher asserts that *phantasia* ($\phi \alpha v \tau \alpha \sigma (\alpha)$ is a kind of motion ($\kappa (\nu \eta \sigma \iota \varsigma)$) in the soul that cannot exist apart from sensation ($\alpha i \sigma \theta \eta \sigma \iota \varsigma$) —it is caused by the activity of sensation⁴³— and supposition ($(\omega \pi \delta \lambda \eta \psi \iota \varsigma)$, and the term ' $\omega \pi \delta \lambda \eta \psi \iota \varsigma'$, as Philoponus notes, includes «knowledge, right thinking/practical wisdom and opinion» (« $\omega \pi \delta \lambda \eta \psi \iota \varsigma \kappa \alpha \tau' \dot{\epsilon} \pi \iota \sigma \tau \eta \mu \eta \varsigma \kappa \alpha i \phi \varphi \circ v \eta \sigma \epsilon \omega \varsigma \kappa \alpha i \delta \delta \xi \eta \varsigma \lambda \dot{\epsilon} \gamma \epsilon \tau \alpha \iota »$)⁴⁴. *Phantasia*, according to Aristotle, is an affection ($\pi \dot{\alpha} \theta \sigma \varsigma$) and «this affection is in our own power whenever we wish». So, it is up to us to imagine, but it is not up to us to believe, «for the belief that we hold must be either false or true»:

«φαντασία γὰς ἕτεςον καὶ αἰσθήσεως καὶ διανοίας· αὐτή τε οὐ γίγνεται ἄνευ αἰσθήσεως, καὶ ἄνευ ταύτης οὐκ ἔστιν ὑπόληψις⁴⁵. ὅτι δ' οὐκ ἔστιν ἡ αὐτὴ νόησις

 $^{^{40}}$ Aristotle, *De Anima*, I, 1, 403 a 8-10: «Thinking seems to be peculiar to the soul; But if thinking is a kind of *phantasia*, then it would not be possible even for thinking to be independent of the body».

⁴¹ *Ibid.*, III, 3, 427 b 14-15.

⁴² See Plato, Sophist, 264 a 4-264 b 3: «{ΞΕ.} Τὶ δ' ὅταν μὴ καθ' αύτὸ ἀλλὰ δι' αἰσθήσεως παϱῆ τινι, τὸ τοιοῦτον αὖ πάθος ẵϱ' οἶόν τε ὀϱθῶς εἰπεῖν ἕτεϱόν τι πλῆν φαντασίαν; {ΘΕΑΙ.} Οὐδέν. {ΞΕ.} Οὐκοῦν ἐπείπεϱ λόγος ἀληθὴς ἦν καὶ ψευδής, τούτων δ' ἐφάνη διάνοια μὲν αὐτῆς πρὸς ἑαυτὴν ψυχῆς διάλογος, δόξα δὲ διανοίας ἀποτελεύτησις, «φαίνεται» δὲ ὃ λέγομεν σύμμειξις αἰσθήσεως καὶ δόξης, ἀνάγκη δὴ καὶ τούτων τῷ λόγῷ συγγενῶν ὄντων ψευδῆ [τε] αὐτῶν ἔνια καὶ ἐνίοτε εἶναι».

⁴³ Aristotle, *De Anima*, III, 3, 428 b 11-13: «ἡ δὲ φαντασία κίνησίς τις δοκεῖ εἶναι καὶ οὐκ ἄνευ αἰσθήσεως γίγνεσθαι ἀλλ' αἰσθανομένοις καὶ ὧν αἴσθησίς ἐστιν». *Ibid.*, III, 3, 429 a 1-2. *Phantasia* is a type of motion that arises by actual sensation. Sensation is activated by the presence of the external object.

⁴⁴ Ioannes Philoponus, *Aristotelis de Anima*, 15, 492, 12.

⁴⁵ The term «ὑπόληψις» has puzzled many Aristotelian scholars. For example Philoponus, as we have already noticed, says that «ὑπόληψις κατ' ἐπιστήμης καὶ φρονήσεως καὶ δόξης λέγεται». Robert D. Hicks notices that «ὑπόληψις» and «διάνοια» are closely related, «for in 429 a 23

καὶ ὑπόληψις, φανερόν. τοῦτο μὲν γὰρ τὸ πάθος ἐφ' ἡμῖν ἐστίν, ὅταν βουλώμεθα⁴⁶ (πρὸ ὀμμάτων γὰρ ἔστι τι ποιήσασθαι, ὥσπερ οἱ ἐν τοῖς μνημονικοῖς τιθέμενοι καὶ εἰδωλοποιοῦντες)⁴⁷, δοξάζειν δ' οὐκ ἐφ' ἡμῖν· ἀνάγκη γὰρ ἢ ψεύδεσθαι ἢ ἀληθεύειν»⁴⁸.

In this passage it is important the phrase $\langle \pi \varrho \dot{\rho} \dot{\rho} \psi \mu \dot{\alpha} \tau \omega \nu \gamma \dot{\alpha} \varrho \, \check{\epsilon} \sigma \tau \iota \tau \iota \pi \sigma \iota \dot{\eta} \sigma \alpha \sigma \theta \alpha \iota \rangle^{49}$, which means our ability to voluntarily ($\langle \ddot{\sigma} \tau \alpha \nu \beta \sigma \upsilon \lambda \dot{\omega} \mu \epsilon \theta \alpha \rangle$) set before our eyes mental images, as do those who use memorization techniques, which are based on sight and the powers of visualization. Therefore, *phantasia* in the above passage seems to be associated or even identified with *visual imagery*, that is, the

⁴⁶ Aristotle in lines 427 b 17-18 of the treatise *De Anima* says that «this affection [namely *phantasia*] is in our power, whenever we wish». But Aristotle's concept of *phantasia* is connected not only with mental images formed in the course of waking thought, but also with dream images ($\dot{\epsilon}\nu\dot{\nu}\pi\nu\iota\alpha$) formed while we are asleep. And while we are asleep, as Aristotle remarks, perception and judgement do not occur. Therefore, dream images, which are one of the works of *phantasia*, do not occur whenever we wish (see *De Insomniis*, I, 459 a 15-23 and III, 462 a 27-31).

⁴⁷ Aristotle by the phrase «those who set things out in mnemonic systems» («οἱ ἐν τοῖς μνημονικοῖς τιθέμενοι») he probably means those who used Mnemonics, the mnemonic art, which was invented by a Greek lyric poet, Simonides of Ceos (556-469 B.C.).

ύπολαμβάνει is obviously added to explain διανοεῖται [«(λέγω δὲ νοῦν ῷ διανοεῖται καὶ ὑπολαμβάνει ἡ ψυχὴ)»]...The term ὑπόληψις is not a technical term, and is chosen here because it will include ἐπιστήμη, δόξα, and φοόνησις» [see Aristotle, *De Anima*, with translation, introduction and notes by Robert D. Hicks [New York: Arno Press, 1976 (1907¹)], p. 457]. David W. Hamlyn asserts that the word ὑπόληψις «is a difficult word to translate since it appears to express a very general notion which functions somewhat as the notion of judgement did in the writings of the Absolute Idealists...» [see Aristotle, *De Anima, Books II and III* (with certain passages from Book I), translated with introduction and notes by D. W. Hamlyn, Clarendon Aristotle Series (Oxford: Clarendon Press, 1968), p. 130]. David W. Hamlyn and Ronald Polansky [see Ronald Polansky, *op. cit.*, 2007), p. 411] translate the word ὑπόληψις as «supposition». For further discussion and definition of the term «ὑπόληψις» see Françoise Caujolle-Zaslawsky, «L' Emploi d' Hupolèpsis dans le *De Anima*, III, 3», sous la direction de Gilbert Romeyer-Dherbey, etudes réunies par Cristina Viano, *Corps et Âme: Sur le De Anima d' Aristote* (Paris: J. Vrin, 1996), pp. 349-365.

⁴⁸ Aristotle, *De Anima*, III, 3 427 b 14-21: «Because *phantasia* is different from sensation and thought; this [namely *phantasia*] cannot exist apart from sensation and supposition. It is manifest that [*phantasia*] is not the same kind of thinking as supposal. For this affection is in our own power whenever we wish (for it is possible to represent an object before our eyes, as do those who set things out in mnemonic systems and form [mental] images of them), but believing/forming opinions is not in our own power; For it is necessary to be either false or true».

⁴⁹ Vasileios Tatakis translates the passage «πρὸ ἀμμάτων γὰρ ἔστι τι ποιήσασθαι» as «for it is possible to represent an object before the soul's eye». He justifies the translation of «πρὸ ἀμμάτων» as «before the soul's eye» by citing the passage «ἡ δ' ἕξις τῷ ὄμματι τούτῷ γίνεται τῆς ψυχῆς», namely, «and this eye of the soul acquires its formed state» (*Ethica Nicomachea*, VI, 13, 1144 a 29-30).

ability to form mental images, or to 'see with the mind's eye'. For example, if someone asks us to describe in detail a lion that is not physically present, we will probably find ourselves 'looking at' or 'visualizing' lions with 'our mind's eye'.

Moreover, I would like to note that we should be very careful about how we interpret the product of the faculty of *phantasia*, $\phi \dot{\alpha} v \tau \alpha \sigma \mu \alpha$, in the Aristotelian texts. My suggestion is that the word « $\phi \dot{\alpha} v \tau \alpha \sigma \mu \alpha$ », which is mentioned twelve times in *De Anima*⁵⁰, may conveniently and aptly be translated as: (a) «representation» or «image» in contexts where « $\phi \dot{\alpha} v \tau \alpha \sigma \mu \alpha$ » is related only with the faculty of *phantasia* (e.g. «εἰ δή ἐστιν ἡ φαντασία καθ' ἡν λέγομεν φάντασμά τι ἡμῖν γίγνεσθαι»)⁵¹, and (b) as «mental representation» or «mental image», when «φάντασμα» is described by the philosopher as the substratum upon which the mind works (e.g. «(διὸ οὐδέποτε νοεῖ ἄνευ φαντάσματος ἡ ψυχή)»)⁵².

III. Indefinite/Indeterminate (Ἀόριστος), Sensitive (Αἰσθητική) and Calculative or Deliberative (Λογιστική or Βουλευτική) Phantasia (Φαντασία)

On the basis of Aristotle's discussion concerning the role and function of *phantasia* in certain chapters and passages of the treatise *De Anima*, we could say that

⁵⁰ The word «φάντασμα» is mentioned twelve times in the treatise *De Anima*. See Aristotle, *De Anima*, III, 3, 428 a 1-2: «εἰ δή ἐστιν ἡ φαντασία καθ' ἡν λέγομεν φάντασμά τι ἡμῖν γίγνεσθαι». *Op. cit.*, III, 7, 431 a 14-17: «τῆ δὲ διανοητικῆ ψυχῆ τὰ φαντάσματα οἶον αἰσθήματα ὑπάρχει. ὅταν δὲ ἀγαθὸν ἢ κακὸν φήση ἢ ἀποφήση, φεύγει ἢ διώκει (διὸ οὐδέποτε νοεῖ ἄνευ φαντάσματος ἡ ψυχή)». *Op. cit.*, III, 7, 431 b 2-8: «τὰ μὲν οὖν εἴδη τὸ νοητικὸν ἐν τοῖς φαντάσματα νοεῖ, καὶ ὡς ἐν ἐκείνοις ὥρισται αὐτῷ τὸ διωκτὸν καὶ φευκτόν, καὶ ἐκτὸς τῆς αἰσθήσεως, ὅταν ἐπὶ τῶν φαντασμάτων ἦ, κινεῖται· οἶον αἰσθανόμενος τὸν φρυκτὸν ὅτι πῦρ, [τῆ κοινῆ] γνωρίζει, ὁρῶν κινούμενον, ὅτι πολέμιος. ὁτὲ δὲ τοῖς ἐν τῆ ψυχῆ φαντάσματιν ἢ νοήμασιν ὥσπερ ὀρῶν λογίζεται καὶ βουλεύεται τὰ μέλλοντα πρὸς τὰ παρόντα». *Op. cit.*, III, 8, 432 a 8-14: «ὅταν τε θεωρῆ, ἀνάγκη ἅμα φαντάσματι θεωρεῖν· τὰ γὰρ φαντάσματα ὥσπερ αἰσθήματά ἐστι, πλὴν ἄνευ ὕλης. ἔστι ὅ ἡ φαντασμάτων ἐς τὸ ἀληθὲς ἢ ψεῦδος. τὰ δὲ πρῶτα νοήματα τίνι διοίσει τοῦ μὴ φαντάσματα εἶναι; ἢ οὐδὲ τἆλλα φαντάσματα, ἀλλ' οὐκ ἄνευ φαντασμάτων». *Op. cit.*, III, 11, 434 a 9-10: «ὥστε δύναται ἕν ἐκ πλειόνων φαντασμάτων ποιεῖν)».

⁵¹ Aristotle, *op. cit.*, III, 3, 428 a 1-2.

⁵² *Ibid.*, III, 7, 431 a 16-17.

the philosopher distinguishes three kinds or grades of *phantasia* (φαντασία): (a) indefinite/indeterminate (ἀόριστος), (b) sensitive (αἰσθητική) and (c) calculative (λογιστική) or deliberative (βουλευτική) *phantasia*. Let us now examine each one of these kinds or grades of *phantasia* in more detail.

(a) Indefinite/Indeterminate *Phantasia* (Αόριστος Φαντασία)

«Σκεπτέον δὲ καὶ περὶ τῶν ἀτελῶν, τί τὸ κινοῦν ἐστίν, οἶς ἁφὴ μόνον ὑπάρχει αἴσθησις, πότερον ἐνδέχεται φαντασίαν ὑπάρχειν τούτοις, ἢ οὖ,...φαντασία δὲ πῶς ἂν ἐνείη; ἢ ὥσπερ καὶ κινεῖται ἀορίστως, καὶ ταῦτ' ἔνεστι μέν, ἀορίστως δ' ἔνεστιν»⁵³.

Certain Aristotelian commentators have interpreted the passage cited above as follows: Themistius explains that imperfect animals (τὰ ἀτελέστεǫα ζῶα), which are the lowest forms of animals, have *phantasia*, but in an inarticulate (ἀδιάǫθωτον) and confused (συγκεχυμένην) way:

«φαντάζεται ἀορίστως, ὥστε ἔχει μὲν φαντασίαν, ἀδιάρθωτον δὲ καὶ συγκεχυμένην»⁵⁴.

Philoponus says that zoophytes (animals that resemble plants)⁵⁵ have an indefinite kind of *phantasia*, because the movements of these creatures are indeterminate:

«ἐν τοῖς ζωοφύτοις, φησίν, ἀορίστως ἐστὶν ἡ φαντασία, ὡς δηλοῖ τὸ ἀόριστον τῆς κινήσεως αὐτῶν. ἀόριστον δὲ καλεῖ τῶν ζωοφύτων τὴν κίνησιν διὰ τὸ μὴ ὁμοίως συστέλλεσθαί τε καὶ διαστέλλεσθαι, ἀλλά ποτε μὲν μᾶλλον, ποτὲ δὲ ἦττον ἢ ἀορίστως λέγει ἀντὶ τοῦ ἀμυδρῶς καὶ πεπλανημένως»⁵⁶.

⁵³ *Ibid.*, III, 11, 433 b 31-434 a 5: «We must also consider what it is that produces movement in the imperfect animals, which have no sense but touch, whether they have *phantasia* or not,... But how could they have *phantasia*? Or is it that as their movements are indefinite/indeterminate, they have *phantasia*...but indefinitely?» based on D. W. Hamlyn's translation, but with some alterations.

⁵⁴ Themistius, *Libros Aristotelis de Anima Paraphrasis*, 5, 3, 122, 11-12: «they imagine indeterminately, and so they have *phantasia*, but in an inarticulate and confused form».

⁵⁵ Zoophytes or animal plants, such as corals, sea anemones and sponges, molluscs etc. are the lowest forms of animals.

⁵⁶ Philoponus, Aristotelis de Anima, 15, 592, 26-29.

Thomas Aquinas explains that imperfect animals (animalia imperfecta) possess an indeterminate *phantasia* (*phantasia* indeterminata). This *phantasia* is indeterminate because the motion of *phantasia* (motus phantasiae) does not remain in this kind of creatures after the sense object is gone:

«Videtur tamen hoc esse contrarium ei quod supra dixerat: quia si pars decisa habet sensum et appetitum, habet etiam phantasiam; si tamen phantasia est idem cum imaginatione, ut videtur. Dicendum est igitur, quod animalia imperfecta, ut in tertio dicetur, habent quidem phantasiam, sed indeterminatam, quia scilicet motus phantasiae non remanet in eis post apprehensionem sensus: in animalibus autem perfectis remanet motus phantasiae, etiam abeuntibus sensibilibus. Et secundum hoc, dicitur hic quod imaginatio non est eadem omnibus animalibus. Sed quaedam animalia sunt, quae hac sola vivunt, carentia scilicet intellectu, et directa in suis operationibus per imaginationem, sicut nos dirigimur per intellectum»⁵⁷.

From the above analysis we conclude that imperfect or indefinite creatures, which have no sense except that of touch⁵⁸, possess an indefinite/indeterminate kind of *phantasia*. Representations of touch⁵⁹ (*phantasmata*) or tactile representations are the products of this kind of *phantasia*. In imperfect animals tactile representations are usually diffuse and indefinite, and do not remain in them, after the sense object is gone⁶⁰ (see *table 2*).

⁵⁷ Sancti Thomae de Aquino, *Corpus Thomisticum. Sentencia Libri De Anima, Liber II*, textum Taurini 1959 editum ac automato translatum a Roberto Busa SJ in taenias magneticas denuo recognovit Enrique Alarcón atque instruxit <<u>http://www.corpusthomisticum.org/can2.html></u>: «Nevertheless, this seems to be contrary to what he said above; because if a part cut off has sense and appetite, it also has phantasy; provided that phantasy is the same as imagination, as it seems. It must be said, therefore, that imperfect animals, as is said in the third book, do really have phantasy, but it is one which is indeterminate because the motion of phantasy does not remain in them after the apprehension of the sense; however in perfect animals the motion of phantasy remains even after the sensible thing is gone. And according to this it is said here that imagination is not the same for all animals. But there are certain animals which live by this alone, lacking the intellect and being directed in their operations by imagination, just as we are directed by the intellect» trans. by R. A Kocourek.

⁵⁸ Imperfect creatures cannot sense objects at a distance, but only the percepts of touch. Polansky asserts that the word « $\dot{\alpha}\phi\dot{\eta}$ in 434 a 1 may apply to both [touch and taste]» [see Ronald Polansky, *op. cit.*, p. 527].

⁵⁹ I translate *phantasmata* that are generated by the sense of touch, as representations of touch or tactile representations. The same applies to the rest of the senses, e.g. representations of taste, sight, smell and hearing.

⁶⁰ They lack the capacity for retaining sensory impressions (*phantasmata*).

Imperfect Animals

(zoophytes, molluscs etc.)

∜

Only the Contact Sense = they can sense only objects in contact with them and in this way they can discriminate which objects are pleasant or unpleasant to them

↓ Indefinite/Indeterminate *Phantasia*

11

Phantasmata (Representations of Touch or Tactile Representations) = diffuse and indefinite and do not remain in imperfect animals after the sense object is gone

Table 2

(b) Sensitive Phantasia (Αἰσθητική Φαντασία)

Regarding the next kind or grade of *phantasia*, we should remark the following: Aristotle says that *sensitive phantasia* is generated by sense perception $(\alpha i \sigma \theta \dot{\alpha} v \epsilon \sigma \theta \alpha i)$. It does not occur without sense perception. Such kind of *phantasia* is found in all animals other than man (see Aristotle's classification of animals, *table 4*), namely the irrational animals:

«ταύτης μέν οὖν καὶ τὰ ἄλλα ζῷα μετέχει»⁶¹.

«ή μέν οὖν αἰσθητικὴ φαντασία, ὥσπερ εἴρηται, καὶ ἐν τοῖς ἄλλοις ζώοις ὑπάρχει»⁶².

At this point we can pose the question: If such kind of *phantasia* is shared by all animals, even the 'imperfect' ones, then, what will be the difference between the indefinite ($\dot{\alpha}\dot{0}00000$) and sensitive ($\alpha\dot{0}0\eta\tau\iota\kappa\dot{\eta}$) kind of *phantasia*? We shall return to this question later.

⁶¹ Aristotle, *op. cit.*, III, 10, 433 b 29-30: «So in the later [sensitive *phantasia*] and other animals partake».

⁶² *Ibid.*, III, 11, 434 a 5-7: «Sensitive *phantasia*, then, as it has been said, exists also in the other animals».

In order to fully understand what the Stageirite philosopher is saying about sensitive *phantasia* (αἰσθητικὴ φαντασία) —and as we shall examine later about calculative or deliberative *phantasia* (λογιστικὴ ἢ βουλευτικὴ φαντασία)—, it is necessary first to explain some of his views related to desire (ἐπιθυμία) and animal movement (κίνησις). Aristotle identifies two kinds of desire (ἐπιθυμία). David Ross says that «desire, however, is of two kinds, wish [βούλησις] or rational desire, which desires the good, and appetite [ὄqεξις] or irrational desire, which desires the apparent good. Or, to put the antithesis otherwise, wish is for future good, appetite for present pleasure mistaken for absolute pleasure and absolute good»⁶³:

«ή γὰρ βούλησις ὄρεξις…ή γὰρ ἐπιθυμία ὄρεξίς τίς ἐστιν»⁶⁴.

The Stageirite philosopher stresses that appetite is the cause of movement or the moving power in animals:

«(κινεῖται γὰρ τὸ κινούμενον ἢ ὀρέγεται, καὶ ἡ ὄρεξις κίνησίς τίς ἐστιν ἢ ἐνέργεια), τὸ δὲ κινούμενον τὸ ζῷον· ῷ δὲ κινεῖ ὀργάνω ἡ ὄρεξις, ἤδη τοῦτο σωματικόν ἐστιν·»⁶⁵

Also, in another perhaps important remark Aristotle specifically notes that animals cannot be appetitive without *phantasia* («ὀϱεκτικὸν δὲ οὐκ ἄνευ φαντασίας·»)⁶⁶. Appetite moves the animal but not without the mediation of *phantasia*. And this kind of *phantasia* is what the philosopher calls sensitive *phantasia*.

Very slight traces of sensitive *phantasia* are found in indefinite animals, since these creatures have the capacity to perceive objects that are in contact with them and in this way they can discriminate which objects are pleasant or unpleasant to them. But they cannot sense objects at a distance, and as Aquinas says «the motion of

⁶³ Sir David Ross, op. cit., p. 91.

⁶⁴ Aristotle, *op. cit.*, III, 10, 433 a 23-26: «For wish is appetite;...for desire is a form of appetite».

⁶⁵ *Ibid.*, III, 10, 433 b 17-19: «(for the animal which is set in motion is set in motion in so far as it desires, and desire is a kind of motion or actuality), and that which is set in motion is the animal; and the instrument by which desire moves it is something bodily».

⁶⁶ *Ibid.*, III, 10, 433 b 28-29.

phantasy does not remain in them after the apprehension of the sense»⁶⁷. However in animals other than indefinite creatures, in other words in animals that possess more than one sense (normal animals), and for this reason they can discriminate even the objects at a distance, the product of *phantasia* or *phantasma* remains in them even after the sense object is gone. Therefore, the difference between the indefinite and sensitive kind or grade of *phantasia* is based on their capacity to perceive and retain a sense object (see *table 3*).

Irrational Animals ↓
Senses of Taste, Touch, Smell, Sight and Hearing = they can sense: (a) objects in contact with them, and (b) objects at a non contact-distance with them ↓
Sensitive *Phantasia* ↓ *Phantasmata* (Images/Representations of Taste, Touch, Smell, Sight and Hearing) = these animals have the ability to retain *phantasmata* after the sense object is gone

Table 3

Finally there is a passage in *De Anima* that has puzzled many ancient commentators and contemporary scholars. Aristotle in Book III, Chapter 3, says that the ant, the bee and the scolex do not have *phantasia*:

«εἶτα αἴσθησις μἐν ἀεὶ πάǫεστι, φαντασία δ' οὐ. εἰ δὲ τῆ ἐνεǫγεία τὸ αὐτό, πᾶσιν ἀν ἐνδέχοιτο τοῖς θηρίοις φαντασίαν ὑπάǫχειν· δοκεῖ δ' οὐ, οἶον μύǫμηκι ἢ μελίττῃ ἢ σκώληκι»⁶⁸.

David W. Hamlyn says that this passage «is puzzling since it is doubtful whether Aristotle would have denied imagination to ants and bees»⁶⁹. I agree with Hamlyn's

⁶⁷ St. Thomas Aquinas, *The Commentary of St. Thomas Aquinas on Aristotle's Treatise On the Soul*, translated by R. A. Kocourek (St. Paul, Minnesota: College of St. Thomas, 1946), p. 19.

⁶⁸ Aristotle, *op. cit.*, III, 3, 428 a 8-11: «And then sense is always present, but not *phantasia*. But if *[phantasia]* was the same in actuality [with sense], it would be possible for all beasts to have *phantasia*; but it seems not to be the case; as the ant, the bee and the scolex».

remark and I argue that it is not possible for Aristotle to deny some kind of *phantasia* to the ants and the bees, since:⁷⁰

(a) in *Historia Animalium* I, 1 488 a 7-10 he includes ants and bees among the political animals:

«Πολιτικὰ δ' ἐστὶν ὧν ἕν τι καὶ κοινὸν γίνεται πάντων τὸ ἔϱγον· ὅπεϱ οὐ πάντα ποιεῖ τὰ ἀγελαῖα. Ἔστι δὲ τοιοῦτον ἄνθϱωπος, μέλιττα, σφήξ, μύϱμηξ, γερανός»⁷¹.

(b) in *De Partibus Animalium* II, 2, 648 a 6-7 he says that bees are more intelligent than many other animals:

«διὸ καὶ μέλιτται καὶ ἄλλα τοιαῦτα ζῷα φρονιμώτερα τὴν φύσιν ἐστὶν ἐναίμων πολλῶν»⁷².

(c) in *Metaphysica* I, 1, 980 b 22-25 he notices that bees are prudent/intelligent and have memory:

«φύσει μὲν οὖν αἴσθησιν ἔχοντα γίγνεται τὰ ζῷα, ἐκ δὲ ταύτης τοῖς μὲν αὐτῶν οὐκ ἐγγίγνεται μνήμη, τοῖς δ' ἐγγίγνεται. καὶ διὰ τοῦτο ταῦτα φοονιμώτεοα καὶ μαθητικώτεοα τῶν μὴ δυναμένων μνημονεύειν ἐστί, φοόνιμα μὲν ἄνευ τοῦ μανθάνειν ὅσα μὴ δύναται τῶν ψόφων ἀκούειν (οἶον μέλιττα κἂν εἴ τι τοιοῦτον ἄλλο γένος ζῷων ἔστι), μανθάνει δ' ὅσα πρὸς τῆ μνήμη καὶ ταύτην ἔχει τὴν αἴσθησιν»⁷³.

⁶⁹ See Aristotle, *De Anima, Books II and III* (with certain passages from Book I), translated with introduction and notes by David W. Hamlyn, Clarendon Aristotle Series (Oxford: Clarendon Press, 1968), p. 54.

⁷⁰ Cf. Aristotle, *De Anima*, with translation, introduction and notes by Robert D. Hicks [New York: Arno Press, 1976 (1907¹)], pp. 462-463.

⁷¹ Aristotle, *Historia Animalium* I, 1, 488 a 7-10: «Political animals are those that have one and common activity for all; and that thing is not in effect for all the gregarious animals. Such political animals are the human being, the bee, the wax, the ant and the crane».

⁷² Idem., *De Partibus Animalium*, II, 2, 648 a 6-7: «wherefore bees and other such as these animals are of a more prudent/intelligent nature than many blooded animals».

⁷³ Idem., *Metaphysica* I, 1, 980 a 27-980 b 25: «Now animals are by nature born with the power of sensation and from this some acquire the faculty of memory, whereas others do not. Accordingly the former are more intelligent and capable of learning than those, which cannot remember. Such as cannot hear sounds (as the bee, and any other similar type of creature) are intelligent, but cannot learn; those only are capable of learning which possess this sense in addition to the faculty of memory» trans. by H. Tredennick.

and (d) in *De Memoria et Reminiscentia* I, 450 a 12-17 Aristotle notes that memory involves *phantasia*:

«ή δὲ μνήμη, καὶ ἡ τῶν νοητῶν, οὐκ ἄνευ φαντάσματός ἐστιν· ὥστε τοῦ νοῦ μὲν κατὰ συμβεβηκὸς ἂν εἴη, καθ' αύτὸ δὲ τοῦ πρώτου αἰσθητικοῦ. διὸ καὶ ἑτέροις τισὶν ὑπάρχει τῶν ζώων, καὶ οὐ μόνον ἀνθρώποις καὶ τοῖς ἔχουσι δόξαν ἢ φρόνησιν»⁷⁴.

Furthermore, as David Ross points out, Aristotle «says none of these things about grubs [scolexes]»⁷⁵, except that: (a) «a scolex is that out of which in its entirety an animal is produce whole, by differentiation and growth of the foetus» (« $\sigma \kappa \omega \lambda \eta \xi \delta$ ' έστιν έξ οῦ ὅλου ὅλον γίνεται τὸ ζῷον, διαρθρουμένου καὶ αὐξανομένου τοῦ κυήματος»)⁷⁶, (b) «just as the animal is perfect but the scolex and the egg are imperfect» («ῶσπερ δὲ τὸ μὲν ζῷον τέλειον, ὁ σκώληξ καὶ τὸ δ' ψ̀ὸν ἀτελές»)⁷⁷ etc. So, according to the American entomologist William Forbes, the σκώληξ has to be «the first stage of the life-history of an insect or other creature which he [Aristotle] did not recognize as produced by birth or hatching from a real egg. Sometimes he actually had an egg in mind (when he refers to it as hard shelled but soft inside), while in other cases it is obviously the first-stage larva»⁷⁸.

Accordingly, in view of all of these facts, I accept Torstrik's emendation of the text «δοκεῖ δ' οὔ, οἶον μύρμηκι ἢ μελίττῃ ἢ σκώληκι»⁷⁹, as «δοκεῖ, οἶον μύρμηκι μὲν ἢ μελίττῃ ἢ σκώληκι δ' οὔ» («it seems that it [*phantasia*] is found in the ant and

⁷⁴ Idem., *De Memoria et Reminiscentia* I, 450 a 12-17: «and memory even of *noêmata* is not without a *phantasma*; therefore memory belongs to the rational part only *per accidens*, while *per se* to the primary part of the sensitive part. Therefore some other animals have memory, and not only human beings and those beings that have opinion or judgment».

⁷⁵ Aristotle, *De Anima*, edited with introduction and commentary by Sir David Ross (Oxford: Clarendon Press, 1961), p. 286. William Forbes stresses that the word $\sigma \kappa \omega \lambda \eta \xi$ in the Aristotelian texts «is not a 'grub' in general as usually translated, and never a 'worm' (vermis or vermiculus)», but it corresponds in a way with the «earthworm» and «the maggot-like larvae of the wasps» [cf. William T. M. Forbes, «The Silkworm of Aristotel», in *Classical Philology*, Vol. 25, No. 1 (Jan. 1930): p. 23].

⁷⁶ Aristotle, *Historia Animalium*, I, 5, 489 b 9-11.

⁷⁷ Idem., *De Generatione Animalium*, II, 1, 733 a 1-2.

⁷⁸ See William T. M. Forbes, *op. cit.* p. 23.

⁷⁹ Aristotle, *De Anima.*, III, 3, 428 a 10-11.

the bee, but not in the scolex»). And, as Robert Hicks⁸⁰, Edwin Wallace⁸¹, and David Ross⁸² point out, Torstrik's emendation of the text is based on the reading of Themistius⁸³ and Sophonias⁸⁴.

Therefore, from the previous analysis, we may conclude that the ants and the bees, which are intelligent creatures and have memory, should be included to the animals that possess the sensitive kind of *phantasia* ($\alpha i \sigma \theta \eta \tau \iota \kappa \eta \phi \alpha \nu \tau \alpha \sigma i \alpha$). Whereas the scolex, which has to be «the first stage of the life-history of an insect or other creature», does not have *phantasia*.

Aristotle's Classifi	ication of Animals
Blooded Animals ⁸⁵	Bloodless Animals ⁸⁶

⁸⁰ Aristotle, *De Anima*, with translation, introduction and notes by Robert D. Hicks [New York: Arno Press, 1976 (1907¹)], p. 462.

⁸³ Themistius, op. cit., 5, 3, 90, 5-8: «ἔπειτα αἴσθησις μὲν πᾶσιν ὑπάρχει τοῖς ζώοις, φαντασία δὲ τοῖς μὲν τοῖς δὲ οὖ, μύρμηκι μὲν ἴσως καὶ μελίττῃ καὶ πολλῷ μᾶλλον κυνὶ καὶ ἵππῷ καὶ ὅσα μετέχει αἰσθήσεως, σκώληκι δὲ οὖ».

⁸⁴ Sophonias, Aristotelis Libros De Anima Paraphrasis, 55, 27-32: «μύφμηξι μέν γὰφ καὶ μελίτταις καὶ τοῖς ὁμοίοις, ἔτι δὲ καὶ τοῖς ὑπὲφ ταῦτα, καὶ ἀπλῶς οἶς τισιν οὐκ ἀόφιστος οὐδ' ἀνεπίστφοφος κίνησις, ἀνάγκη παφεῖναι φαντασίαν, πφὸς ἣν ποιοῦνται τεταγμένην τὴν κίνησιν σκώλυκες δὲ καὶ μυῖαι καὶ ὅσα ἄλλα ἀτάκτως καὶ ἀοφίστως ὁφῶνται κινούμενα καὶ μάλιστα τὰ ἐκ σήψεως ἐπετείως γινόμενα ἢ οὐ δοκοῦσιν ὅλως ἔχειν ἢ ἀμυδφάν τινα».

⁸⁵ Aristotle, *Historia Animalium*, II, 15, 505 b 28-32: «Ἐστι δὲ ταῦτα (namely ἔναιμα) ἄνθρωπός τε καὶ τὰ ζωοτόκα τῶν τετραπόδων, ἔτι δὲ καὶ τὰ ἀοτόκα τῶν τετραπόδων καὶ ὄρνις καὶ ἰχθὺς καὶ κῆτος, καὶ εἴ τι ἄλλο ἀνώνυμόν ἐστι διὰ τὸ μὴ εἶναι γένος ἀλλ' άπλοῦν τὸ εἶδος ἐπὶ τῶν καθ' ἕκαστον, οἶον ὄφις καὶ κροκόδειλος».

⁸⁶ Idem., *De Partibus Animalium*, IV, 5, 678 a 27-31: «Τὰ δὲ καλούμενα μαλάκια καὶ μαλακόστρακα πολλὴν ἔχει πρὸς ταῦτα διαφοράν· εὐθὺς γὰρ τὴν τῶν σπλάγχνων ἅπασαν οὐκ ἔχει φύσιν. ὁμοίως δ' οὐδὲ τῶν ἄλλων ἀναίμων οὐδέν. ἔστι δὲ δύο γένη λοιπὰ τῶν ἀναίμων, τά τε ὀστρακόδερμα καὶ τὸ τῶν ἐντόμων γένος».

⁸¹ Aristotle, *Aristotle's Psychology*, with introduction and notes by Edwin Wallace (New York: Arno Press, 1976), p. 263.

⁸² Aristotle, *De Anima*, edited with introduction and commentary by Sir David Ross (Oxford: Clarendon Press, 1961), pp. 286-287.

(Invertebrates)
1. Hard-Shelled Animals (Clams, Oysters, etc.)
2. Weak-Shelled Animals (Crabs etc.)
3. Cephalopoda (Squids, Cuttle-Fishes etc.)
4. Insects
5. Zoophytes (Anemones, Holothuria, Sponges etc.)

Table 4

(c) Calculative or Deliberative *Phantasia* (Λογιστική or Βουλευτική Φαντασία)

The third kind or grade of *phantasia* is that which is calculative (λογιστική) or deliberative (βουλευτική):

«φαντασία δὲ πᾶσα ἢ λογιστικὴ ἢ αἰσθητική»⁸⁷.

«ἡ δὲ βουλευτικὴ [φαντασία] ἐν τοῖς λογιστικοῖς»⁸⁸.

It should be underlined here that the epithets/adjectives «λογιστική» (calculative) and «βουλευτική» (deliberative) are equivalent. The verbs «λογίζομαι» and «βουλεύομαι» are synonymous, since they both mean, «to determine, to consider».

But what kind of *phantasia* is that which is calculative or deliberative? Is there a *phantasma* involved? The Stageirite philosopher notices that:

«ἡ μὲν οὖν αἰσθητικὴ φαντασία, ὥσπερ εἴρηται, καὶ ἐν τοῖς ἄλλοις ζώοις ὑπάρχει, ἡ δὲ βουλευτικὴ ἐν τοῖς λογιστικοῖς (πότερον γὰρ πράξει τόδε ἢ τόδε, λογισμοῦ ἤδη ἐστὶν ἔργον· καὶ ἀνάγκη ἑνὶ μετρεῖν^{89.} τὸ μεῖζον γὰρ διώκει. ὥστε

⁸⁷ Aristotle, *De Anima*, III, 10, 433 b 29.

⁸⁸ *Ibid.*, III, 11, 434 a 7.

⁸⁹ The Greek translator and commentator of the treatise *De Anima*, Andreas Papatheodorou, notices that pleasure, interest and duty are some of the standards or criteria of measurement that intelligent

δύναται ἕν ἐκ πλειόνων φαντασμάτων ποιεῖν). καὶ αἴτιον τοῦτο τοῦ δόξαν μὴ δοκεῖν ἔχειν, ὅτι τὴν ἐκ συλλογισμοῦ οὐκ ἔχει, αὕτη δὲ ἐκείνην»⁹⁰.

The third kind or grade of *phantasia* is found in those animals, which possess reason, or, as Sir David Ross asserts, «the deliberative imagination, the rational imagination...is monopoly of reasoning beings, i.e. of men»⁹¹. For whether a person will do this or that is the work of calculation, of reasoning. Of course, rational beings do not always act according to a plan (use of calculative or deliberative *phantasia*), but they can also act according to the awareness of the moment (use of sensitive *phantasia*).

What the philosopher meant by saying «καὶ αἰτιον τοῦτο τοῦ δόξαν μὴ δοκεῖν ἔχειν, ὅτι τὴν ἐκ συλλογισμοῦ οὐκ ἔχει, αὕτη δὲ ἐκείνην», was that other animals than man are thought not to have opinion (δόξα), because their desires have no deliberation. Only animals with intellect—and therefore language— have the *phantasia* that comes from inference. This kind of *phantasia* appears as an intermediate between sense perception (αἰσθάνεσθαι) and *nous* or mind (νοῦς). It involves having and combining several mental images (*phantasmata*) into one. This is the difference between human beings and animals. The elaboration, organization and unification of images (*phantasmata*) are typical characteristics of human beings (see *table 5*).

It should be noticed that the activity of calculative or deliberative *phantasia* involves the use of *phantasmata* with (a) propositional and (b) pictorial or quasi-pictorial content:

(a) propositional content

animals use in order to pursue whichever is superior [see Aristotle, *De Anima*, II-III, text, translation and notes by Andreas Papatheodorou (in Greek) (Athens: «Papyrus» Publications, no date), p. 92].

⁹⁰ *Ibid.*, III, 11, 434 a 5-12: « Sensitive *phantasia*, then, as it has been said, exists also in the other animals, but deliberative *phantasia* in those that are calculative; for the decision whether it will do this or that, is already a work of calculation; and there must be a single standard to measure by; for one pursues what is superior. Hence one has the ability to make one *phantasma* out of many *phantasmata*. And the reason why [these animals] are thought not to have opinion is that they do not have opinion which comes from inference, though this [opinion] involves that [*phantasia*]».

⁹¹ See Aristotle, *De Anima*, edited with introduction and commentary by Sir David Ross (Oxford: Clarendon Press, 1961), p. 319.

«ή δ
ἑ βουλευτικὴ ἐν τοῖς λογιστικοῖς (πότε
ϱον γὰ
ϱ πράξει τόδε ἢ τόδε, λογισμοῦ ἤδη ἐστὶν ἔργον.» 92

(b) pictorial or quasi-pictorial content

«ότὲ δὲ τοῖς ἐν τῆ ψυχῆ φαντάσμασιν ἢ νοήμασιν ὥσπεǫ ὁǫῶν λογίζεται καὶ βουλεύεται τὰ μέλλοντα ποὸς τὰ παρόντα·»⁹³

The above examples (a) and (b) are excellent Aristotelian remarks with respect to contemporary ideas about mental images⁹⁴.

Rational Animals	
\Downarrow	
Senses of Taste, Touch, Smell, Sight and Hearing = they can sense: (a) in contact with	
them, and (b) objects at a non contact-distance with them	
\downarrow	
Sensitive Phantasia	
\Downarrow	
Phantasmata (Images/Representations of Taste, Touch, Smell, Sight and Hearing) =	
these animals have the ability to retain and to combine <i>phantasmata</i> after the sense	
object is gone	
\Downarrow	

⁹² Aristotle, *De Anima*, III, 11, 434 a 7-8. See note 88.

⁹³ *Ibid.*, III, 7, 431 b 6-8: «and when by the *phantasmata* or the *noemata* in the soul it calculates, as if seeing them, and deliberates what is going to happen in the future in relation to the present».

⁹⁴ Two of the most important contemporary theories of mental images or mental imagery are the "Analog or Pictorial Representation Account" (Kosslyn, Sheppard etc.) and the "Propositional Representation Account" (Pylyshyn, Fodor etc.). The "Analog or Pictorial Representation Account" says that visual informations are stored in the brain in an analog or a picture-like (quasi-pictorial) code. The "Propositional Representation Account" on the contrary argues that visual informations are stored in the brain in a propositional or a word-like code. Cf. S. M. Kosslyn – T. M. Ball – B. J. Reiser, «Visual Images Preserve Metric Spatial Information: Evidence from Studies of Image Scanning», *Journal of Experimental Psychology: Human Perception and Performance*, Vol. 4 (1978): pp. 47-60. Zenon W. Pylyshyn, «The Imagery Debate: Analogue Media versus Tacit Knowledge», *Psychological Review*, 88 (1981): pp. 16-45. Ned J. Block, *Imagery* (Cambridge, MA: MIT Press, 1981).

Calculative or Deliberative Phantasia	
\Downarrow	
Phantasmata (Mental Images/Mental Representations of Taste, Touch, Smell, Sight	
and Hearing either pictorial or quasi – pictorial or propositional content) = these	
animals have the ability to retain and to combine <i>phantasmata</i> after the sense object is	
gone	
\uparrow	
Nous	

Table 5

IV. Conclusion

On the basis of the analysis undertaken above it appears that Aristotle's treatment of *phantasia*/imagination is a complicated subject. *Phantasia* is a faculty of the soul, the imaginative ($\phi \alpha \nu \tau \alpha \sigma \tau \iota \kappa \delta \nu$), that is placed between sensation ($\alpha \iota \sigma \theta \eta \sigma \iota \varsigma$) and thought ($\delta \iota \alpha \nu \sigma \iota \alpha \delta \nu \sigma \iota \kappa \delta \nu$). On the one hand it depends on sensation, is a kind of affection ($\pi \alpha \theta \sigma \varsigma$), and on the other is a necessary condition for memory, motion, desire, dreaming, thinking etc. In other words it is connected with a wide variety of psychological phenomena.

Furthermore, it has been noted that *phantasmata*, are the products of the function of *phantasia*, resulting from sense perception ($\alpha i \sigma \theta \dot{\alpha} v \varepsilon \sigma \theta \alpha i$). *Phantasmata* are (mental) representations or (mental) images of sense objects. They have several functions, as for example remembering and thinking process.

Thereafter, I have tried to show that a detailed study of the notion of *phantasia* in *De Anima*, Book III, leads us to the conclusion that the Stageirite philosopher discriminates not two —as it is commonly argued— but three kinds or grades of *phantasia*: (a) Indefinite/indeterminate *phantasia* ($\dot{\alpha}$ óq $\iota\sigma\tau\sigma\varsigma$ $\phi\alpha\nu\tau\alpha\sigma$ í α) which is to be found in the imperfectly developed creatures — they have no sense except that of touch—, as for example zoophytes and molluscs, which have the power of formatting diffuse and indefinite *phantasmata*. (b) Sensitive *phantasia* ($\dot{\alpha}$ i $\sigma\theta\eta\tau$ uch $\phi\alpha\nu\tau\alpha\sigma$ í α)

Thomas J. T. Nigel notes that «the impact on latter thinkers of Aristotle's account of cognition in general, and of imagery and imagination in particular, was enormous, and extended far beyond those who were avowed Aristotelians»⁹⁵. Indeed, Aristotle's treatment of *phantasia* in *De Anima* exerted an important influence on Hellenistic philosophy⁹⁶ and Western thought (Medieval and Modern)⁹⁷.

Beyond this, if we shed further light on Aristotle's theory of *phantasia* and *phantasmata*, we shall find deep conceptual relationship with the current debate over the issue of mental images or mental imagery. But this is another issue that needs further investigation⁹⁸.

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⁹⁵ See Thomas J. T Nigel, «Aristotle's Influence», *Stanford Encyclopedia of Philosophy* <<u>http://plato.stanford.edu/entries/mental-imagery/aristotle-influence.html></u>.

⁹⁶ Cf. the Stoics' theory of *phantasia*.

⁹⁷ E.g. St. Thomas Aquinas's account on imagination (imaginatio), Rene Descartes' views on the function of the faculty of imagination etc.

⁹⁸ Cf. Christina S. Papachristou, «The *Mental Images (Phantasmata)* in Aristotle's *De Anima* and in S. Kosslyn's Contemporary Work» (in Greek), in Demetra Sfendoni-Mentzou (ed.), *The Aristotelian Philosophy and the Contemporary Scientific Thought* (Thessaloniki: Aristotle University of Thessaloniki, 2006), pp.112-134.

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