THE TIMÆUS,

A DIALOGUE

ON NATURE.

INTRODUCTION.

то

THE TIMÆUS.

THE defign, fays Proclus, of Plato's Timæus evidently vindicates to itfelf the whole of phyfiology, and is converfant from beginning to end with the fpeculation of the univerfe. For the book of Timæus the Locrian concerning nature is composed after the Pythagoric manner; and Plato, thence deriving his materials, undertook to compose the present dialogue, according to the relation of the fcurrilous Timon. This dialogue, therefore, respects phyfiology in all its parts; speculating the fame things in images and in exemplars, in wholes and in parts. For it is filled with all the most beautiful modes of phyfiology, delivering things simple for the fake of fuchas are composite, parts on account of wholes, and images for the fake of exemplars; and it leaves none of the primary causes of nature unexplored.

But Plato alone, of all the phyfiologifts, has preferved the Pythagoric mode in fpeculations about nature. For phyfiology receives a threefold divifion, one part of which is converfant with matter and material caufes; but a fecond adds an inquiry into form, and evinces that this is the more principal caufe; and laftly, a third part manifefts that thefe do not rank in the order of caufes, but concaufes; and, in confequence of this, eftablifhes other proper caufes of things fubfifting in nature, which it denominates *producing*, *paradigmatical*, and *final* caufes. But this being the cafe, all the phyfiologifts prior to Plato, confining themfelves to fpeculations about matter, called this general receptacle of things by different names. For, with refpect to Anaxagoras himfelf, as it appears, though while others were dreaming he perceived that intellect was the first caufe of generated natures, yet he made no we of intellect in his demonstrations, but rather confidered certain airs and ethers

ethers as the caufes of the phænomena, as we are informed by Socrates in the Phædo. But the most accurate of those posterior to Plato, (such as the more early peripatetics,) contemplating matter in conjunction with form, confidered these as the principles of bodies; and if at any time they mention a producing cause, as when they call nature a principle of motion, they rather take away than establish his efficacious and producing prerogative, while they do not allow that he contains the reasons ¹ of his productions, but admit that many things are the progeny of chance. But Plato, following the Pythagoreans, delivers as the concauses of natural things, an all-receiving matter, and a material form, as subservient to proper causes in generation; but, prior to these, he investigates primary causes, i. e. the producing, the paradigmatical, and the final.

Hence, he places over the universe a demiurgic intellect and an intelligible caufe; in which last the universe and goodness have a primary sublistence, and which is eftablished above the artificer of things in the order of the defirable, or, in other words, is a fuperior object of defire. For, fince that which is moved by another, or a corporeal nature, is fufpended from a motive power, and is naturally incapable either of producing, perfecting, or preferving itfelf, it evidently requires a fabricative caufe for the commencement and continuance of its being. The concaufes, therefore, of natural productions must neceffarily be fuspended from true causes, as the fources of their existence, and for the fake of which they were fabricated by the father of all things. With great propriety, therefore, are all thefe accurately explored by Plato, and likewife the two depending from thefe, viz. form, and the fubject matter. For this world is not the fame with the intelligible and intellectual worlds, which are felf-fubfiftent, and confequently by no means indigent of a fubject, but it is a composite of matter and form. However, as it perpetually depends on thefe, like the shadow from the forming fubstance, Plato affimilates it to intelligible animal itfelf; evinces that it is a God through its participation of good, and perfectly defines the whole world to be a bleffed God, participating of intellect and foul.

Such, then, being Plato's defign in the Timæus, he very properly in the beginning exhibits, through images, the order of the universe; for it is

4

ufual

That Ariftotle himfelf, however, was not of this opinion, I have flown in the Introduction to my Translation of his Metaphysics.

ufual with the Pythagoreans ', previous to the tradition of a fcientific doctrine, to prefent the reader with a manifestation of the proposed inquiry, through fimilitudes and images: but in the middle part the whole of Cofmogony is delivered; and towards the end, partial natures, and fuch as are the extremities of fabrication, are wove together with wholes themfelves. For the repetition of the Republic, which had been fo largely treated of before, and the Atlantic hiftory, unfold through images the theory of the For, if we confider the union and multitude of mundane natures, world. we must fay, that the fummary account of the Republic by Socrates, which establishes as its end a communion pervading through the whole, is an image of its union; but that the battle of the Atlantics against the Athenians, which Critias relates, is an image of the diftribution of the world, and especially fo according to the two coordinate oppositions of things. For, if we make a division of the universe into celestial and fublunary, we must fay that the Republic is affimilated to the celeftial diffribution; fince Socrates himfelf afferts that its paradigm is established in the heavens; but that the Atlantic war corresponds to generation, which subsists through contrariety and mutation. And fuch are the particulars which precede the whole doctrine of physiology.

But after this the demiurgic, paradigmatic, and final caufes of the univerfe are delivered; from the prior fubfiftence of which the univerfe is fabricated, both according to a whole and according to parts. For the corporeal nature of it is fabricated with forms and demiurgic fections, and is diffributed with divine numbers; and foul is produced from the demiurgus, and is filled with harmonic reafons and divine and fabricative fymbols. The whole mundane animal too is connected together, according to the united comprehension which fubfifts in the intelligible world; and the parts which it contains are diffributed fo as to harmonize with the whole, both fuch as are corporeal and fuch as are vital. For partial fouls are introduced into its fpacious receptacle, are placed about the mundane Gods, and become mundane through the luciform vehicles with which they are connected, imitating their prefiding and leading Gods. Mortal animals too are fabricated and vivified by the celeftial Gods; and prior to thefe, the formation of man is delivered as a

* Ειναι γαρ τοις Πυθαγορειοις εθος, προ της επιστημενικης διδασκαλιας προτιθεναι την δία των όμοιων, και των εικονων των ζητουμενων σκεμματων δηλωσιν. Procl. in Tim. p. 10.

microcofm

microcofm, comprehending in himfelf partially every thing which the world contains divinely and totally. For we are endued with an intellect fubfifting in energy, and a rational foul proceeding from the fame father and vivific goddefs as were the caufes of the intellect and foul of the univerfe. We have likewife an ethereal vehicle analogous to the heavens, and a terreftrial body composed from the four elements, and with which it is alfo coordinate. If, therefore, it be proper to contemplate the univerfe multifarioufly both in an intelligible and fentible nature, paradigmatically, and as a refemblance, totally and partially, a difcourfe concerning the nature of man is very properly introduced in the fpeculation of the univerfe.

With respect to the form and character of the dialogue, it is acknowledged by all that it is composed according to the Pythagoric mode of writing. And this also must be granted by those who are the least acquainted with the works of Plato, that the manner of his composition is Socratic, philanthropic, and demonstrative. If, therefore, Plato any where mingles the Socratic and Pythagoric property together, this must be apparent in the prefent dialogue. For it contains, agreeably to the Pythagoric cuftom, elevation of intellect, together with intellectual and divine conceptions: it likewife fufpends every thing from intelligibles, bounds wholes in numbers, exhibits things myftically and fymbolically, is full of an elevating property, of that which transcends partial conceptions, and of the enunciative mode of composition. But from the Socratic philanthropy it contains an easy accommodation to familiar difcourfe, gentleness of manners, proceeding by demonstration, contemplating things through images, the ethical peculiarity, and every thing of this kind. Hence, it is a venerable dialogue, and deduces its conceptions from on high, from the first principles of things; but it mingles the demonstrative with the enunciative, and prepares us to understand physics, not only physically but theologically. For, indeed, Nature herfelf rules over the universe fuspended from the Gods, and directs the forms of bodies through the influence of their infpiring power; for fhe is neither herfelf a divinity, nor yet without a divine characteristic, but is full of illuminations from all the various orders of the Gods.

But if it be proper, as Timæus fays, that difcourfes fhould be affimilated to the things of which they are the interpreters, it will be neceffary that the dialogue fhould contain both that which is phyfical and that which is theological;

theological; imitating by this mean Nature which it contemplates. Further ftill, fince according to the Pythagoric doctrine things receive a triple division, into fuch as are intelligible, fuch as are physical, and fuch as rank in the middle of thefe, which the Pythagoreans ufually call mathematical, all thefe may very conveniently be viewed in all. For in intelligibles things middle and laft fublift in a caufal manner; and in mathematical natures both are contained, fuch as are first according to fimilitude, and fuch as are third after the manner of an exemplar. And laftly, in natural things the refemblances of fuch as are prior fublist. With great propriety, therefore, does Timæus, when deferibing the composition of the foul, exhibit her powers, and reasons, and the elements of her nature, through mathematical names : but Plato defines the characteristics of thefe from geometrical figures, and at the fame time leaves the causes of all thefe pre-fublisting in a primary manner in the intelligible intellect, and the intellect of the artificer of the universe.

And thus much for the manner of the dialogue; but its argument or hypothefis is as follows. Socrates coming into the Piræus for the fake of the Bendidian feftival, which was facred to Diana, and was celebrated prior to the Panathenaia¹, on the twentieth of the month Thargelion or June, difcourfed there concerning a republic with Polemarchus, Cephalus, Glauco, Adimantus, and Thrafymachus the fophift. But on the following day he related this difcourfe in the city to Timæus, Critias, Hermocrates, and a fourth namelefs perfon. On the third day they end the narration; and Timæus commences from hence his difcourfe on the univerfe, before Socrates, Critias, and Hermocrates; the fame namelefs perfon who was prefent at the fecond narration being now abfent from the third.

With refpect to the term *nature*, which is differently defined by different philofophers, it is neceffary to inform the reader, that Plato does not confider either matter or material form, or body, or natural powers, as worthy to be called nature; though nature has been thus denominated by others. Nor does he think proper to call it foul; but eftablishing its effence between foul and corporeal powers, he confiders it as inferior to the former through its being divided about bodies, and its incapacity of conversion to itfelf, but as furpaffing the latter through its containing the reasons of all

¹ Sacred to Minerva.

VOL. 11.

things,

things, and generating and vivifying every part of the vifible world. For nature verges towards bodies, and is infeparable from their fluctuating empire. But foul is feparate from body, is established in herfelf, and fubfifts both from herfelf and another; from another, that is, from intellect through participation, and from herfelf on account of her not verging to body, but abiding in her own effence, and at the fame time illuminating the obscure nature of matter with a fecondary life. Nature, therefore, is the last of the caufes which fabricate this corporeal and fenfible world, bounds the progreffions of incorporeal effences, and is full of reafons and powers through which the governs mundane affairs. And the is a goddets indeed, confidered as deified; but not according to the primary fignification of the word. For the word God is attributed by Plato, as well as by the antient theologists, to beings which participate of the Gods. Hence every pure intellect is, according to the Platonic philosophy, a God according to union; every divine foul according to participation; every divine dæmon according to contact; divine bodies are Gods as flatues of the Gods; and even the fouls of the most exalted men are Gods according to fimilitude; while in the mean time fupereffential natures only are primarily and properly Gods. But nature governs the whole world by her powers, by her fummit comprehending the heavens, but through thefe ruling over the fluctuating empireof generation, and every where weaving together partial natures in amicable conjunction with wholes.

But as the whole of Plato's philofophy is diffributed into the contemplation of intelligibles and fenfibles, and this very properly, fince there is both an intelligible and fenfible world, as Plato himfelf afferts in the courfe of the dialogue; hence in the Parmenides he comprehends the doctrine of intelligibles, but in the Timæus of mundane natures. And in the former of these dialogues he scientifically exhibits all the divine orders, but in the latter all the progreffions of fuch as are mundane. Nor does the former entirely neglect the speculation of what the universe contains, nor the latter of intelligibles themfelves. And this becaufe fenfibles are contained in intelligibles paradigmatically, and intelligibles in feufibles according to fimilitude. But the latter abounds more with physical speculations, and the former with fuch as are theological; and this in a manner adapted to the perfons after whom the dialogues are called : to Timæus on the one hand, who

who had composed a book on the universe, and to Parmenides on the other, who had written on true beings. The divine Jamblichus, therefore, afferts very properly, that the whole theory of Plato is comprehended in these two dialogues, the Parmenides and Timæus. For the whole doctrine of mundane and supermundane natures is accurately delivered in these, and in the most confummate perfection; nor is any order of beings left without investigation.

We may behold too the fimilitude of proceeding in the Timæus to that in the Parmenides. For, as Timæus refers the caufe of every thing in the world to the firft artificer, fo Parmenides fufpends the progreffion of all things from *the one*. And as the former reprefents all things as participating of demiurgic providence, fo the other exhibits beings participating of a uniform effence. And again, as Timæus prior to his phyfiology prefents us through images with the theory of mundane natures, fo Parmenides prior to his theology excites us to an inveftigation of immaterial forms. For it is proper, after being exercifed in difcourfes about the beft polity, to proceed to a contemplation of the univerfe; and, after an athletic contention through ftrenuous doubts about ideas, to betake ourfelves to the myftic fpeculation of the unities of beings. And thus much for the hypothefis or argument of the dialogue.

But as a more copious and accurate inveftigation of fome of its principal parts will be neceffary, even to a general knowledge of the important truths which it contains, previous to this I fhall prefent the reader with an abftract of that inimitable theory refpecting the connection of things, which is the bafis of the prefent work, and of the whole philofophy of Plato. For by a comprehensive view of this kind we shall be better prepared for a minute furvey of the intricate parts of the dialogue, and be convinced how infinitely superior the long lost *philofophy* of *Pythagoras* and *Plato* is to the *experimental farrago* of the moderns.

Since the first cause is the good 1 , and this is the fame with the one, as is evident from the Parmenides, it is necessary that the whole of things should be the most excellent, that is, the most united that can possible be conceived. But perfect union in the whole of things can no otherwise take place than

¹ See the fixth Book of the Republic.

by the extremity of a fuperior order coalefcing, RATA oxeow, through habitude or alliance, with the fummit of an order which is proximately inferior. Again, with refpect to all beings, it is neceffary that fome fhould move or be motive only, and that others fhould be moved only; and that between thefe there fhould be two mediums, the felf-motive natures, and those which move and at the fame time are moved. Now that which is motive only, and confequently effentially immovable, is intellect, which poffeffes both its effence and energy in eternity; the whole intelligence of which is firmly eftablished in indivisible union, and which though a cause prior to itself participates of deific illumination. For it poffeffes, fays Plotinus, twofold energies; one kind indeed as intellect, but the other in confequence of becoming as it were intoxicated, and deifying itfelf with nectar. But that which is felf-motive is foul, which, on account of poffeffing its energy in transition and a mutation of life, requires the circulations of time to the perfection of its nature, and depends on intellect as a more antient and confequently fuperior caufe. But that which moves and is at the fame time moved is nature, or that corporeal life which is diffributed about body, and confers generation, nutrition and increase to its fluctuating effence. And laftly, that which is moved only is body, which is naturally paffive, imbecil and inert.

Now, in confequence of the profound union fubfifting in things, it is neceffary that the higheft beings or intelligibles fhould be wholly fupereffential, nara oxeous, according to proximity or alliance; that the highest intellects fhould be beings, the first of fouls intellects, and the highest bodies lives, on account of their being wholly abforbed as it were in a vital nature. Hence, in order that the most perfect union possible may take place between the last of incorporeals and the first of bodies, it is necessary that the body of the world fhould be confummately vital; or indeed, according to habitude and alliance, life itfelf. But it is neceffary that a body of this kind fhould be perpetually generated, or have a fubfiftence in perpetually becoming to be. For after intellect, which eternally abides the fame both in effence and energy, and foul, which is eternally the fame in effence but mutable in energy, that nature must fucceed which is perpetually mutable both in effence and energy, and which confequently fubfifts in a perpetual differion of temporal extension, and is co-extended with time. Such a body, therefore,

fore, is very properly faid to be generated, at the fame time that this generation is perpetual; becaufe, on account of its divisibility and extension, it alone derives its existence from an external cause : likewise, because it is a composite, and because it is not at once wholly that which it is, but possesses its being in continual generation. This body, too, on account of the perpetuity of its duration, though this is nothing more than a flowing eternity, may be very properly called a whole with a total fubfiftence: for every thing endued with a total fubfiftence is eternal; and this may be truly afferted of the body of the world, when we confider that its being is co-extended with the infinite progressions of time. Hence, this divine or celestial body may be properly called όλος όλικως, or a whole totally, just as the limb of an animal is mapos maphaness, or a part partially. But between whole totally and hart hartially two mediums are neceffarily required, viz. hart totally and whole partially (μερος όλικως and όλος μερικως). The parts, therefore, with a total fubfistence which the world contains, are no other than the celeftial orbs, which are confequently eternal and divine, after the fame manner as the whole body of the world, together with the fpheres of the elements; and the wholes partially are no other than the individuals of the various fpecies of animals, fuch as a man, a horfe, and the like.

Now this divine body, on account of its fuperiority to fublunary natures, was called by Ariftotle a fifth body, and was faid by Plato to be composed for the most part from fire. But in order to a more perfect comprehension of its nature, it is neceffary to obferve, that the two elements which, according to Plato, are fituated in the extremes, are fire and earth, and that the characteristic of the former is visibility, and of the latter tangibility; fo that every thing becomes visible through fire, and tangible through earth. Now the whole of this celeftial body, which is called by the antients heaven, confifts of an unburning vivific fire, like the natural heat which our bodies contain, and the illuminations of which give life to our mortal part. But the stars are for the most part composed from this fire, containing at the fame time the fummits of the other elements. Hence, heaven is wholly of a fiery characteristic, but contains in a causal manner the powers of the other elements; as, for inftance, the folidity and ftability of earth, the conglutinating and unifying nature of water, and the tenuity and transparency of air. For. For, as earth comprehends all things in a terreftrial manner, to the heavens contain all things according to a fiery characteristic.

But the following extraordinary paffage from Proclus admirably unfolds the nature of this divine body, and the various gradations of fire and the other elements. "It is neceffary to underftand (fays he ') that the fire of the heavens is not the fame with fublunary fire, but that this is a divine fire confubfiftent with life, and an imitation of intellectual fire ; while that which fubfifts in the fublunary region is entirely material, generated and corruptible. Pure fire, therefore, fubfifts in the heavens, and there the whole of fire is contained; but earth according to caufe, fubfifting there as another fpecies of earth, naturally affociating with fire, as it is proper it fhould, and poffeffing nothing but folidity alone. For, as fire there is illuminative, and not burning, fo earth there is not grofs and fluggifh, but each fubfifts according to that which is the fummit of each. And as pure and true fire is there, fo true earth fubfifts here, and the wholenefs, oborns, of earth "; and fire is here according to participation, and materially, as earth is according to a primary fubfiftence. So that in heaven the fummit of earth is contained, and in earth the dregs and fediment of fire. But it is evident that the moon has fomething folid and dark, by her obstructing the light; for obstruction of light is alone the province of earth. The stars too obstruct our fight, by caffing a fhadow of themfelves from on high. But fince fire and earth fubfift in heaven, it is evident that the middle elements muft be there alfo; air first of all, as being most diaphanous and agile, but water, as being most vaporous: each at the fame time fublisting far purer than in the fublunary region, that all things may be in all, and yet in an accommodated manner in each.

"However, that the whole progreffion and gradations of the elements may become apparent, it is neceffary to deduce the fpeculation of them from on high. Thefe four elements, then, fire, air, water, and earth, fublift firft of all in the demiurgus of wholes, uniformly according to caufe. For all

caules

In Tim. p. 152.

² For it is neceffary that the first fublistence of each of the elements should be, as we have before observed, according to part total, in order to the perfect union of the world; and this part total is called by the Platonists oroms, or a vubolenefs.

caufes are previoufly affumed in him, according to one comprehension; as well the intellectual, divine, pure, and vigorous power of fire, as the containing and vivific caufe of air; and as well the prolific and regerminating effence of water, as the firm, immutable, and undeviating form of earth. And this the theologist Orpheus knowing, he thus speaks concerning the demiurgus:

	His body 's boundlefs, ftable, full of light.
And	
	Th' extended region of furrounding air
	Forms his broad fhoulders, back and bofom fair.
Again,	
•	His middle zone's the fpreading fea profound.
And	
	The diftant realms of Tartarus obscure
	Within earth's roots his holy feet fecure;
	For thefe carth's utmost bounds to Jove belong,
	And form his bafis, permanent and ftrong.

" But from these demiurgic causes a progression of the elements into the universe takes place, but not immediately into the fublunary world. For how can the most immaterial things give subsistence to the most material without a medium; or things immovable be immediately hypoftatic of fuch as are moved in all directions? Since the progression of things is nowhere without a medium, but fublifts according to a well-ordered fubjection ; and generations into thefe material, diffipated, and dark abodes, take place through things of a proximate order. Since, therefore, the elements in the demiurgus are intellects and imparticipable intellectual powers, what will be their first progression? Is it not manifest that they will yet remain intellectual powers, but will be participated by mundane natures? For from imparticipable intellect the proximate progression is to that which is participated. And, univerfally, progression takes place from imparticipables to things participated, and from fupermundane to mundane forms. But what are thefe things which yet reman intellectual, but are participated, and what fubjection do they poffets? Is it not evident that they are no longer intellectual (i. e. effentially intellectual)? But I call those natures intellectual which are the forms of intellect, and of a truly intellectual effence. But becoming

becoming participated, and being no longer intellectual, it is evident that they are no longer immovable natures. But, not being immovable, they must be felf-motive. For these are proximately suspended from immovable natures; and from things effentially intellectual a progression takes place to fuch as are fo according to participation, and from things immovable to fuch as are felf-motive. These elements, therefore, sublist in life, and are felfmotive and intellectual according to participation. But the progreffion from this must be manifest. For the immediate descent from life is to animal; fince this is proximate to life. And from that which is effentially felfmotive, to that which is felf-motive according to a participation of life. For, fo far as it proceeds from life to animal, it fuffers a mutation. But fo far as it proceeds from that which is immaterial to things immaterial ', (that is, fuch as may be called immaterial when contrasted with mutable matter,) and from divine life to a divine effence, it becomes affimilated to them. If, therefore, you take away from hence that which is immaterial and immutable, you will produce that which is mutable and material. And through this, indeed, they are diminished from such as are before them; but on account of the fymmetry and order of their motions, and their immutability in their mutations, they become affimilated to them. If, therefore, you take away this order, you will behold the great confusion and inconftancy of the elements; and this will be the laft progression, and the very dregs and fediment of all the prior gradations of the elements.

"Of the elements, therefore, fome are immovable, imparticipable, intellectual and demiurgic; but others are intellectual and immovable according to effence, but participated by mundane natures. Others again are felfmotive, and effentially lives; but others are felf-motive and vital, but are not lives. Some again are alter-motive, or moved by another, but are moved in an orderly manner; and, laftly, others have a difordered, tumultuous, and confuied fubfiftence."

Such then is the progreffion of the elements, and fuch the nature of a celeftial body. But, if the body of the world be fpherical, and this muft neceffarily be the cafe, as a fphere is the most perfect of figures, and the world the best of effects, there must be fome part in it corresponding to a

centre,

¹ He means the divine bodies of the ftars, and the body of the heavens; which, compared with fublunary bodies, may be juftly called *immaterial bodies*.

centre, and this can be no other than earth. For, in an orderly progression of things, that which is most distant, and the last, is the worst; and this we have already shown is the earth. But in a sphere, that which is most distant from the fuperficies is the centre; and, therefore, earth is the centre of the world. This conclusion, indeed, will doubtlefs be ridiculed by every fagacious modern, as too abfurd in fuch an enlightened age as the prefent to deferve the labour of a confutation. However, as it follows by an inevitable confequence from the preceding theory, and this theory is founded on the harmonious union of things, we may fafely affert that it is confubfiftent with the universe itself. At such a period, indeed, as the prefent, when there is fuch a dire perversion of religion, and men of every description are involved in extreme impiety, we cannot wonder that the fpirit of profane innovation fhould caufe a fimilar confusion in the fystem of the world. For men of the prefent day being deftitute of true fcience, and not having the leaft knowledge of the true nature and progressions of things, in the first place make the universe an unconnected production, generated in time, and of courfe naturally fubject to diffolution; and, in the next place, allow of no effential diffinction in its principal parts. Hence, the earth is by them hurled into the heavens, and rolled about their central fun in conjunction with the celeftial orbs. The planets are fuppofed to be heavy bodies fimilar to our fluggifh earth; the fixed ftars are all fo many funs; and the fun himfelf is a denfe, heavy body, occafionally fuffering dimnefs in his light, and covered with dark and fuliginous fpots. With refpect to this last particular, indeed. they boaft of ocular conviction through the affiftance of the telefcope; and what reafoning can invalidate the teftimony of the eyes? I answer, that the eyes in this particular are more deceived when affifted by glaffes, than when truffing to their own naked power of perceiving. For, in reality, we do not perceive the heavenly bodies themfelves, but their inflammations in the air : or, in other words, certain portions of air enkindled by the fwiftnefs of their courfe. This at least cannot be denied to be possible; and, if fo, it is not at all wonderful that a grofs aërial inflammation should, when viewed through a telefcope, appear dim and clouded with fpots. But this is not an hypothefis of my own invention, but is derived from Ammonius Hermeas, who, as we are informed by Olympiodorus in the Phædo, was of this opinion, as alfo was Heraclitus long before him; who, fpeaking (fays Olympiodorus) VOL. II.

piodorus) in his obfcure way concerning the fun, fays of that luminary "enkindling meafures and extinguishing meafures,"—that is, enkindling an image of himfelf in the air when he rifes, the fame becoming extinguished when he fets.

Nor let the moderns fondly imagine that their fyftem of aftronomy was adopted by Pythagoras and his followers, for this opinion is confuted by Spanheim and Dickinfon; and this, fays Fabricius¹, with no contemptible arguments: and we are informed by Simplicius², long before them, that the Pythagoreans by the fire in the middle did not mean the fun, but a demiurgic vivific fire, feated in the centre of the earth. The prophecy of Swift, therefore, in his Gulliver's Travels, that the boafted theory of gravitation would at one time or other be exploded, may certainly be confidered as a moft true prediction, at leaft fo far as relates to the celeftial orbs.

But to return from this digreffion. The inerratic fphere, according to the Platonic philosophy, has the relation of a monad to the multitude of flars which it contains; or, in other words, it is the proximate caufe of this multitude which it contains, and with which it has a coordinate fubfiftence. But, according to the fame philosophy, all the planets are fixed in folid fpheres, in conformity to the motions of which they perpetually revolve; but, at the fame time, have peculiar motions of their own befides those of the fpheres 3. These sheres too are all concentric, or have the same centre with the earth and the univerfe, and do not confift of hard impenetrable matter, as the moderns have ignorantly fuppofed; for being divine or immaterial bodies, fuch as we have already defcribed, they have nothing of the denfity and gravity of this our earth, but are able to permeate each other without division, and to occupy the fame place together; just like the illuminations emitted from feveral lamps, which pafs through the whole of the fame room at once, and pervade each other without confusion, divultion, or any apparent diffinction. So that thefe fpheres are fimilar to mathematical bodies, fo far as they are immaterial, free from contrariety, and exempt from every paffive quality; but are different from them, fo far as they are full of motion and life. But they are concealed from our fight through the

- ¹ Vid. Biblioth. Græc. vol. 1. de Orpheo.
- * In Ariftot. de Cœlo, lib. 2.
- ³ For Plato makes no mention of epicycles and eccentric circles.

tenuity

tenuity and fubility of their nature, while, on the contrary, the fire of the planets which are carried in them is vifible through the folidity which it poffcffes. So that earth is more predominant in the planets than in the fpheres; though each fubfifts, for the most part, according to the characteristic of fire. But let it be carefully remembered, that the peculiarity of all fire is the *being vifible*, but that neither heat nor fluidity belongs to every fpecies of fire: and that the property of all earth is the *being tangible*, but that gravity and fubfiding downwards do not belong to all.

But, in confequence of each of these spheres being a obothe, or part with a total fubfistence, as we have already explained, it follows that every planet has a number of fatellites furrounding it, analogous to the choir of the fixed stars? and that every fphere is full of Gods, angels, and dæmons, fubfifting according to the properties of the fpheres in which they refide. This theory indeed is the grand key to the theology of the antients, as it flows us at one view why the fame God is fo often celebrated with the names of other Gods : which led Macrobius formerly to think that all the Gods were nothing more than the different powers of the fun; and has induced certain fuperficial moderns, to frame hypothefes concerning the antient theology fo ridiculous, that they deferve to be confidered in no other light than the ravings of a madman, or the undifciplined conceptions of a child. But that the reader may be fully convinced of this, let him attend to the following extraordinary paffages from the divine commentaries of Proclus on the Timæus. And, in the first place, that every planet is attended with a great number of fatellites, is evident from the following citation ;--" There are other divine animals attending upon the circulations of the planets, the leaders of which are the feven planets; and thefe revolve and return in their circulations in conjunction with their leaders, just as the fixed flars are governed by the circulation of the inerratic fphere."- Elderal xal anna (wa Sela Ely oupavia ouvertoμενα ταις των πλανωμενων περιφοραίς, ών ήγεμονες εισιν δι έπζα.--Και συμπεριπολει, και συναποκαθισταται ταις έαυτων αρχαις, ώσπερ και τα απλανη κρατειται ύπο της όλης πεμιΦορας . And in the fame place he informs us, that the revolution of these fatellites is fimilar to that of the planets which they attend; and this, he acquaints us a little before, is according to Plato a spiral revolution. Kai yap tauta τρεπομενα εστι, και πλανην εχοντα τοιαυτην, διαν ειρηκεν περι των έπ]α μικρώ προτερον.

Vid. Procl. in Tim. p. 279.

312

Again,

428

Again, with respect to their number—" about every planet there is a number (of fatellites) analogous to the choir of the fixed flars, all of them fubfifting with proper circulations of their own "."—Evit yap xas' ixaorny apilpuosavalors to the article of the fixed flars, there is one monad, the wholeinquired why, with respect to the fixed flars, there is one monad, the wholenels ($\delta \lambda \sigma \tau_{RS}$) of them; but among the planets there is both a $\delta \lambda \sigma \tau_{RS}$, wholenels or totality, that is the fiphere of each, and a leader befides in each, that is the apparent orb; he answers in the fame place, that as the motion of the planets is more various than that of the fixed flars, fo their possible of government is more abundant, for they proceed into a greater multitude. He adds—But in the fubluary regions there is ftill a greater number of governors; for the monads (that is, totalities) in the heavens generate a number analogous to themfelves. So that the planets being fecondary to the fixed flars, require a twofold government; one of which is more total and the other more partial.

But with respect to the fatellites, the first in order about every planet are Gods; after thefe, dæmons revolve in lucid orbicular bodies; and thefe are followed by partial fouls fuch as ours, as the following beautiful paffage abundantly evinces. "But that in each of these (the planetary spheres) there is a multitude coordinate to each, you may infer from the extremes. For if the inerratic fphere has a multitude coordinate to itfelf, and earth is, with refpect to terreftrial animals, what the inerratic fphere is to fuch as are celestial, it is neceffary that every wholenefs should posses certain partial animals coordinate to itfelf, through which also the fpheres derive the appellation of wholeneffes. But the natures fituated in the middle are concealed from our fenfe, while, in the mean time, those contained in the extremes are apparent; one fort through their transcendently lucid effence, and the other through their alliance to ourfelves. But if partial fouls are diffeminated about thefe fpheres, fome about the fun, fome about the moon, and others about each of the remaining fpheres 3; and if prior to fouls there are dæmons filling up the herds of which they are the leaders; it is evidently beautifully faid that each of the fpheres is a world. And this is agreeable to the doctrines of theologists, when they teach us that there are Gods in every sphere

prior

² Page 275. ³ This Plato himfelf afferts in the following dialogue.

prior to dæmons, the government of fome receiving its perfection under that of others. As for inftance with refpect to our queen the Moon, that the contains the goddels Hecate and Diana; and with refpect to our fovereign the Sun, and the Gods which he contains, theologifts celebrate Bacchus as fubfifting there,

The Sun's affeffor, who with watchful eye Infpects the facred pole:

They also celebrate Jupiter as feated there, Ofiris, and a folar Pan, as likewife other divinities, of which the books of theologifts and theurgifts are full; from all which it is evident how true it is that each of the planets is the leader of many Gods, which fill up its proper circulation 1."-'Ori de nai εν έκαστη τουτων πληθος εστιν έκαστη συστοιχον, κατασκευασειας αν απο των ακρων. Ει γαρ ή απλανης εχει συστοιχον έαυτη πληθος, και ή γη των χθονιων ζωων εστι, ώς εκεινη των ουρανιων, αναγκη και έκαστην όλοτητα παντως εχειν μερικα αττα συστοιχα προς αυτη ζωα, δια και όλοτητες λεγονται. Λανθανει δε ήμων τα μεσα την αισθησιν, των ακρων δηλων οντων, των μεν, δια την ύπερλαμπρον ουσιαν, των δε δια την προς ήμας συγγενειαν. Ει δε και μερικαι ψυχαι περι αυτους εσπαρησαν, αλλαι μεν περι ήλιον, αλλαι δε περι σεληνην, αλλαι δε περι έκαστον των λοιπων, και προ των ψυχων δαιμονες συμπληρουσι τας αγελας ών ειτιν ήγεμονες. δηλου ότι καλως ειρηται κοσμου έκαστην ειναι των σΦαιρων, και των Θεολογων ήμας ταυτα διδασκοντων, όποταν περι έκαστους θεους εν αυτοις ειναι, προ των δαιμονων, αλλους ύπο των αλλων τελουντας ήγεμονιαν, όιον, και περι της δεσποινης ήμων Σεληνης, ότι και ή Έκατη θεα εστιν εν αυτη, και ή Αρτεμις, και περι του βασιλεως Ήλιου και των εκει θεων, τον εκει Διονυσον ύμνουντες, Ήελιος παρεδρος επισκοπεων πολον αγνον, τον Δια τον εκει, τον Οσιριν, τον Πανα τον ήλιαπον, τους αλλους, ών δι βιζλοι πληρεις εισι των Θεολογων και των Θεουργων, εξ ών άπαντων δηλον, όπως αληθες, και των πλανωμενων έκαστον αγελαρχην ειναι πολλων Θεων, συμπληρουντων αυτου την ιδιαν περιΦοραν.

Now, from this extraordinary paffage, we may perceive at one view why the Sun in the Orphic hymns is called Jupiter, why Apollo is called Pan, and Bacchus the fun; why the Moon feems to be the fame with Rhea, Ceres, Proferpine, Juno, Venus, &c. and, in fhort, why any one divinity is celebrated with the names and epithets of fo many of the reft. For from this fublime theory it follows that every fphere contains a Jupiter, Neptune, Vulcan, Vefta, Minerva, Mars, Ceres, Juno, Diana, Mercury, Venus, Apollo, and in fhort every deity, each fphere at the fame time conferring on thefe Gods the peculiar characteriftic of its nature; fo that, for inflance,

Procl. in Tim. p. 279.

in

430

in the fun they all poffefs a folar property, in the moon a lunar one, and fo of the reft. From this theory too we may perceive the truth of that divine faying of the antients, that all things are full of Gods; for more particular orders proceed from fuch as are more general, the mundane from the fupermundane, and the fublunary from the celeftial; while earth becomes the general receptacle of the illuminations of all the Gods. "Hence (fays Proclus ') there is a terreftrial Ceres, Vefta, and Ifis, as likewife a terreftrial Jupiter and a terrestrial Hermes, established about the one divinity of the earth; just as a multitude of celestial Gods proceeds about the one divinity of the heavens. For there are progressions of all the celestial Gods into the earth; and earth contains all things, in an earthly manner, which heaven comprehends celeftially. Hence we fpeak of a terrestrial Bacchus, and a terrestrial Apollo, who beftows the all-various streams of water with which the earth abounds, and openings 'prophetic of futurity." And if to all this we only add that all the other mundane Gods fubfift in the twelve above mentioned, and that the first triad of these is demiurgic or fabricative, viz. Jupiter, Neptune, Vulcan; the fecond, Vesta, Minerva, Mars, defensive; the third, Ceres, Juno, Diana, vivific; and the fourth, Mercury, Venus. Apollo, elevating and harmonic :--- I fay, if we unite this with the preceding theory, there is nothing in the antient theology that will not appear admirably fublime and beautifully connected, accurate in all its parts, fcientific and divine. Such then being the true account of the Grecian theology, what opinion must we form of the wretched fystems of modern mythologifts; and which most deferves our admiration, the impudence or ignorance of the authors of fuch fyftems? The fyftems indeed of thefe men are fo monftroufly abfurd, that we may confider them as inftances of the greateft diffortion of the rational faculty which can poffibly befall human nature, while connected with fuch a body as the prefent. For one of these confiders the Gods as merely fymbols of agriculture, another as men who once lived on the earth ², and a third as the patriarchs and prophets of the Jews. Surely fhould thefe fystems be transmitted to posterity, the historian by whom they are related must either be confidered by future generations as an impostor, or his narration must be viewed in the light of an extravagant romance.

I only add, as a conclusion to this fublime theory, that though the whole

^{*} In Lim. p. 282. ^{*} See my notes on the Cratylus.

of

of the celeftial region is composed from the four elements, yet in fome places fire in conjunction with earth (*i. e.* earth without gravity and denfity) predominates; in others fire, with the fummit of water; and in others again fire with the fummit of air: and according to each of these an all-various mutation fubfifts. Hence fome bodies in the heavens are visible, and these are fuch as have fire united with the folid; but others are still more visible ', and these are fuch as have fire mingled with the fplendid and diaphanous nature of air. And hence the spheres of the planets, and the inerratic sphere itself, possible a more attenuated and diaphanous effence; but the stars are of a more folid composition. But fire every where prevails, and all heaven is characterized through the power of this exalted clement. And neither is the fire there caustic (for this is not even the property of the first of the fublunary elements, which Aristotle calls fiery, $\pi upperdes$) nor corruptive of any thing, nor of a nature contrary to earth; but it perpetually fhines with a pure and transparent light, with vivisic heat, and illuminating power.

And fuch are the outlines of the fystem of the world, according to Pythagoras and Plato; which, ftrange as the affertion may feem, appears to have been but little known from the æra of the emperor Justinian to the prefent time. That beautiful mode in which as we have flown the elements fubfift both in the heavens and the earth, has not been even fufpected by modern natural philosophers to have any existence; and astronomers have been very far from the truth in their affertions concerning the celeftial fpheres. In confequence of indolence, or ignorance, or prejudice, or from all three in conjunction, the moderns have invented fyftems no lefs differdant with the nature of things than different from each other. They have just been able to gain a glimpfe of the beautiful union of things in the vegetable and animal tribes belonging to the earth, and have difcovered that the lowest of the animal fpecies and the higheft of the vegetable approximate fo near to each other, that the difference between the two can fcarcely be perceived; but this is the very fummit of their refearches; they are unable to trace the connection of things any further, and reft fatisfied in admitting that

The chain continues, but with links unknown.

* That is, in themfelves: but they are invisible to us, on account of their possessing but little of the resisting nature of earth; and this is the reason why we cannot see the celestial spheres.

The divine nature of the celeftial bodies cannot be feen through the telefcope, and incorporeals are not to be viewed with a microfcopic eye: but thefe inftruments are at prefent the great flandards of truth; and whatever oppofes or cannot be afcertained by the teftimony of thefe, is confidered as mere conjecture, idle fpeculation, and a perversion of the reasoning power.

But let us now proceed to a fummary view of fome of the principle parts of this most interesting dialogue. And, in the first place, with respect to the hiftory which is related in the beginning, concerning a war between the inhabitants of the Atlantic island and the Athenians :---Crantor, the most early of Plato's commentators, confidered this relation (fays Proclus) as a mere hiftory unconnected with allegory; while other Platonifts, on the contrary, have confidered it as an allegory alone. But both thefe opinions are confuted by Proclus and the best of the Platonists; because Plato calls it a very wonderful, but at the fame time true, narration. So that it is to be confidered as a true hiftory, exhibiting at the fame time an image of the opposition of the natures which the universe contains. But according to Amelius¹ it repretents the opposition between the inerratic fphere and the fixed ftars; according to Origen^a, the contest between dæmons of a superior and those of an inferior order; according to Numenius, the difagreement between more excellent fouls who are the attendants of Pallas, and fuch as are converfant with generation under Neptune. Again, according to Porphyry, it infinuates the conteft between dæmons deducing fouls into generation, and fouls afcending to the Gods. For Porphyry gives a three-fold diffinction to dæmons; afferting that fome are divine, that others fubfift according to habitude, xara oxiou, among which partial fouls rank when they are allotted a dæmoniacal condition, and that others are evil and noxious to fouls. He afferts, therefore, that this lowest order of dæmons always contends with fouls in their afcent and defcent, efpecially weftern dæmons; for, according to the Egyptians, the weft is accommodated to dæmons of this defcription. But the exposition of Jamblichus, Syrianus and Proclus is doubtless to be preferred, as more confiftent with the nature of the dialogue; which refers it to the opposition perpetually flourishing in the universe between unity and

¹ A difciple of Plotinus contemporary with Porphyry.

* Not the father, of that name, but a difciple of Ammonius Saccas, and contemporary with Plotinus.

multitude,

multitude, bound and infinity, famenefs and difference, motion and permanency, from which all things, the first cause being excepted, are composed. Likewise, being has either an effential or accidental substitution and is either incorporeal or corporeal: and if incorporeal, it either verges or does not verge to body. But bodies are either simple and immaterial, as the celessial bodies, or simple and material, as those of an aërial nature, or composite and material, as those of earth. So that the opposition of all these is occultly fignified by that antient war; the higher and more excellent natures being every where implied by the Athenians, and those of a contrary order by the inhabitants of the Atlantic island.

That the reader, however, may be convinced that Plato's account of the Atlantic island is not a fiction of his own devising, let him attend to the following relation of one Marcellus, who wrote an hiftory of Æthiopian affairs, according to Proclus ' :-- " That fuch, and fo great, an ifland once exifted, is evinced by those who have composed histories of things relative to the external fea. For they relate that in their times there were feven islands in the Atlantic fea, facred to Proferpine : and befides thefe, three others of an immenfe magnitude; one of which was facred to Pluto, another to Ammon, and another, which is the middle of thefe, and is of a thoufand stadia, to Neptune. And befides this, that the inhabitants of this last island preferved the memory of the prodigious magnitude of the Atlantic island, as related by their anceftors; and of its governing for many periods all the iflands in the Atlantic fea. And fuch is the relation of Marcellus in his Æthiopic hiftory." Ότι μεν εγενετο τοιαυτή τις νήσος και τηλικαυτή, δηλουσι τινές των ίστορουντων τα πέρι της εξω θαλαττής, ειναι γαρ και εν τοις αυτών χρονοις έπτα μεν νήσους εν εκεινώ τω πελαγει Περσεφονής Γερας, τρεις δε αλλας απλετούς, την μεν Πλουτωνός, την δε Αμμώνος, μεσην δε τουτων αλλην Πουτιδωνος, χιλιων σταδιων το μεγεθες. Και τους οικουντας εν αυτητμνημην απο των προγονων διασωζειν περι της Ατλαντιδος οιτως γενομενής εκει νήσου παμμεγαθεστατής, ην επι πολλας περιοδους δυναστευται πατων των εν Ατλαντικώ πελαγει νητων. Ταυτα μεν ουν ό Μαρκελλος εν νοις Αιθιοπικοις γεγραφεν.

Indeed it is not at all wonderful that fo large an ifland fhould once have exifted, nor improbable that many more fuch exift at prefent, though to us unknown, if we only confider the Platonic theory concerning the earth, of which the reader will find an account in the Introduction to the Phædo, and

VOL. II.

¹ In Tim. p. 55. 3 K

which

which the following extraordinary paffage from Proclus ' abundantly con-" It is here (fays he) requifite to remember the Platonic hypothefes firms. concerning the earth. For Plato does not measure its magnitude after the fame manner as mathematicians; but thinks that its interval is much greater, as Socrates afferts in the Phædo. In which dialogue alfo he fays, that there are many habitable parts fimilar to our abode *. And hence he relates that an island and continent of this kind exist in the external or Atlantic fea. For, indeed, if the earth be naturally fpherical, it is neceffary that it fhould be fuch according to its greatest part. But the parts which we inhabit, both internally and externally, exhibit great inequality. In fome parts of the earth. therefore, there must be an expanded plain, and "an interval extended on high. For, according to the faying of Heraclitus, he who paffes through a very profound region will arrive at the Atlantic mountain, whofe magnitude is fuch, according to the relation of the Æthiopian historians, that it touches the æther, and cafts a fhadow of five thousand ftadia in extent; for from the ninth hour of the day the fun is concealed by it, even to his perfect demersion under the earth. Nor is this wonderful: for Athos, a Macedonian mountain, cafts a shadow as far as to Lemnos, which is diftant from it feven hundred stadia. Nor are fuch particulars as thefe, which Marcellus the Æthiopic historian mentions, related only concerning the Atlantic mountain; but Ptolemy alfo fays that the lunar mountains are of an immenfe height; and Aristotle, that Caucafus is enlightened by the rays of the fun a third part of the night after fun-fet, and a third part before the rifing of the fun. And if any one confiders the whole magnitude of the earth.

" In Tim. p. 56.

* The latter Platonifts appear to have been perfectly convinced that the earth contains two quarters in an oppofite direction to Europe and Afia; and Olympiodorus even confiders Plato as of the fame opinion, as the following paffage from his commentary on this part of the Phædo clearly evinces.—" Plato (fays he) directs his attention to four parts of the globe, as there are two parts which we inhabit, i. e. Europe and Afia; fo that there must be two others, in confequence of the antipodes." Karaστοχαζεται δι των τεσσαρων (τοπων) επειδή δυο καθ'ήμας εισιν, ή Ευρωπη και ή Ασια, ωστε δυο αλλοι κατα τους αντιποδας. Now in confequence of this, as they were acquainted with Africa, the remaining fourth quarter must be that which we call America. At the fame time let it be carefully remembered, that thefe four quarters are nothing more than four holes with refpect to the whole earth, which contains many fuch parts; and that confequently they are not quarters of the earth itfelf, but only of a fmall part of the earth in which they are contained, like a fmall globe in one of a prodigious extent.

bounded

bounded by its clevated parts, he will conclude that it is truly of a prodigious magnitude, according to the affertion of Plato."

In the next place, by the fable of Phaëton we muft underftand the deftruction of a confiderable part of the earth through fire, by means of a comet being diffolved of a folar nature. Likewife, when he mentions a deluge, it is neceffary to remember, that through the devaftations of thefe two elements, fire and water, a more prolific regeneration of things takes place at certain periods of time; and that when Divinity intends a reformation, the heavenly bodies concur with this defign in fuch a manner, that when a conflagration is about to take place, then, according to Berofus ⁴ the Chaldæan, all the planets are collected together in Cancer; but when a deluge, then the planets meet in Capricorn. With refpect to Pallas and Neptune, who are mentioned in this part of the dialogue, as the reader will find an account of thefe Divinities in the Notes to the Cratylus, I fhall only add at prefent, that, according to Proclus, Minerva moft eminently prefides in the celeftial conftellation called the Ram, and in the equinoctial circle, where a power motive of the univerfe principally prevails.

Again, it is neceffary to underftand, that when the world is faid by Plato to be generated, this term expresses its flowing and composite nature, and does not imply any temporal commencement of its existence. For, as the world was neceffarily produced according to effential power, this being the most perfect of all modes of operation, it is also necessary that it should be coexistent with its artificer; just as the fun produces light coexistent with itfelf, fire heat, and fnow coldnefs. The reader muft, however, carefully observe, that when we fay it is necessary that the cause of the universe fhould operate according to power, we do not understand a necessity which implies violence or conftraint; but that neceffity which Ariftotle 2 defines as the perfectly fimple, and which cannot have a multifarious fubfiftence. And hence this term, when applied to the most exalted natures, to whom alone in this fenfe it belongs, fignifies nothing more than an impoffibility of fubfifting otherwife than they do, without falling from the perfection of their nature. Agreeably to this definition, Neceffity was called by antient theologists Adrastia and Themis, or the perfectly right and just:

3 K 2

and

² Vid. Sence. Natural. Quæst. III. 29. ² Metaphys. lib. 5.

and if men of the prefent day had but attended to this fignification of the word, i. e. if any edition of Aristotle's works, with a copious index mentioning this fenfe of neceffity, had fortunately exifted, they would not have ignorantly supposed that this word, when applied to divine natures, fignified conftraint, violence, and over-ruling power. As intellect, therefore, is eternal, both according to effence and energy, and as foul is eternal in effence, but temporal in energy, fo the world is temporal both in effence and energy. Hence, every thing prior to foul always is, and is never generated ; but foul both is, and is perpetually generated ; and the world never is, but is always generated : and whatever the world contains in like manner never is; but inftead of being always generated, like the whole world, is fo at fome particular time. Becaufe the world therefore is converfant with perpetual motion and time, it may be faid to be always generated, or advancing towards being; and therefore never truly is. So that it refembles the image of a mountain beheld in a torrent, which has the appearance of a mountain without the reality, and which is continually renewed by the continual renovation of the ftream. But foul, which is eternal in effence, and temporal in energy, may be compared to the image of the fame rock beheld in a pool, and which, of courfe, when compared with the image in the torrent, may be faid to be permanently the fame. In fine, as Proclus well obferves, Plato means nothing more by generation than the formation of bodies, i. e. a motion or proceffion towards the integrity and perfection of the universe.

Again, by the *demiurgus* and *father* of the world we muft underftand Jupiter, who fubfifts at the extremity of the *intellectual triad*¹; and auto ζ_{uov} , or *animal itfelf*, which is the exemplar of the world, and from the contemplation of which it was fabricated by Jupiter, is the laft of the *intelligible triad*, and is fame with the Phanes of Orpheus: for the theologift reprefents Phanes as an animal with the heads of various beafts, as may be feen in our Notes to the Parmenides. Nor let the reader be diffurbed on finding that, according to Plato, the firft caufe is not the immediate caufe of the univerfe; for this is not through any defect or imbecility of nature, but, on the contrary, is the confequence of transformed power. For, as the firft caufe

² See the Notes on the Cratylus and Parmenides.

is the fame with the one, a unifying energy must be the prerogative of his nature : and as he is likewife perfectly fupereffential, if the world were his immediate progeny, it must be as much as possible superessential and profoundly one: but as this is not the cafe, it is neceffary that it should be formed by intellect and moved by foul. So that it derives the unity and goodnefs of its nature from the first caufe, the orderly disposition and diflinction of its parts from Jupiter its artificer, and its perpetual motion from foul; the whole at the fame time proceeding from the first caufe through proper mediums. Nor is it more difficult to conceive matter after this manner invefted with form and diffributed into order, than to conceive a potter making clay with his own hands, giving it a shape when made, through the affiftance of a wheel, and, when fashioned, adorning it through another inftrument with figures; at the fame time being careful to remember, that in this latter inftance different inftruments are required through the imbecility of the artificer, but that in the former various mediums are neceffary from the transcendency of power which subfifts in the original caufe. And from all this it is eafy to infer, that matter was not prior to the world by any interval of time, but only in the order of composition; priority here implying nothing more than that which must be confidered as first in the conftruction of the world. Nor was it hurled about in a difordered flate prior to order; but this only fignifies its confused and tumultuous nature, when confidered in itfelf, divefted of the fupervening irradiations of form.

With refpect to the four elements, I add, in addition to what has been faid before, that their powers are beautifully difpofed by Proclus as follows, viz:

FIRE.	AIR.
Subtle, acute, movable.	Subtle, blunt, movable.
WATER.	EARTH.
Denfe, blunt, movable.	Denfe, blunt, immovable.

In which difposition you may perceive how admirably the two extremes fire and earth are connected, though indeed it is the peculiar excellence of the Platonic philosophy to find out in every thing becoming mediums through that part of the dialectic art called division; and it is owing to this that the philosophy philosophy itself forms to regular and confistent a whole. But I have invented the following numbers for the purpose of representing this distribution of the elements arithmetically.

Let the number 60 reprefent fire, and 480 earth; and the mediums between thefe, viz. 120 and 240, will correspond to air and water. For as 60: 120:: 240: 480. But $60 = 3 \times 5 \times 4$. $120 = 3 \times 10 \times 4$. $240 = 6 \times 10 \times 4$. and $480 = 6 \times 10 \times 8$. So that thefe numbers will correspond to the properties of the elements as follows:

FIRE :	Air:
$3 \times 5 \times 4$: Subtle, acute, movable:	3× 10× 4:: Subtle, blunt, movable.
WATER :	EARTH.
6 × 10 × 4::	6 × 10 × 8
Denfe, blunt, movable : :	Denfe, blunt, immovable.

With refpect to fire it must be observed, that the Platonists confider light, flame, and a burning coal, Ques, QLoZ, avgraz, as differing from each other: and that a fubjection or remiffion of fire takes place from on high to the earth, proceeding, as we have before obferved, from that which is more immaterial, pure, and incorporeal, as far as to the most material and denfe bodies: the last procession of fire being subterranean; for, according to Empedocles, there are many rivers of fire under the earth. So that one kind of fire is material and another immaterial, i. e. when compared with fublunary matter; and one kind is corruptible, but another incorruptible; and one is mixed with air, but another is perfectly pure. The characteriftic too of fire is neither heat nor a motion upwards, for this is the property only of our terreftrial fire; and this in confequence of not fubfifting in its proper place : but the effential peculiarity of fire is vifibility ; for this belongs to all fire, i. e. to the divine, the mortal, the burning, and the impetuous. It must, however, be carefully observed, that our eyes are by no means the ftandards of this vifibility: for we cannot perceive the celeftial fpheres, on account of fire and air in their composition fo much predominating over earth; and many terreftrial bodies emit no light when confiderably heated, owing

owing to the fire which they contain being wholly abforbed, as it were, in grofs and ponderous carth.

In like manner, with refpect to earth, the characteriftic of its nature is folidity and tangibility, but not ponderofity and a tendency downwards; for these properties do not fubfift in every species of earth. Hence, when we confider these two elements according to their opposite fubfistence, we shall find that fire is always in motion, but earth always immovable; that fire is eminently visible, and earth eminently tangible; and that fire is of a most attenuated nature through light, but that earth is most dense through darkness. So that as fire is effentially the cause of light, in like manner, earth is effentially the cause of darkness; while air and water substituting as mediums between these two, are, on account of their diaphanous nature, the causes of visibility to other things, but not to themselves. In the mean time moisture is common both to air and water, connecting and conglutinating earth, but becoming the feat of fire, and affording nourishment and stability to its flowing nature.

With refpect to the composition of the mundane foul, it is neceffary to observe that there are five genera of being, from which all things after the first being are composed, viz. effence, permanency, motion, famenes, difference. For every thing must posses effence ; must abide in its cause, from which also it must proceed, and to which it must be converted; must be the fame with itfelf and certain other natures, and at the fame time different from others and diffinguished in itself. But Plato, for the fake of brevity, assumes only three of these in the composition of the foul, viz. effence, famenes, and difference; for the other two must necessarily subsist in conjunction with these. But by a nature impartible, or without parts, we must understand intellect, and by that nature which is divifible about body, corporeal life. The mundane foul, therefore, is a medium between the mundane intellect and the whole of that corporeal life which the world participates. We muft not, however, fuppofe that when the foul is faid to be mingled from thefe two, the impartible and partible natures are confumed in the mixture, as is the cafe when corporeal fubftances are mingled together; but we must underftand that the foul is of a middle nature between thefe, fo as to be different from each, and yet a participant of each.

The first numbers of the foul are these: 1, 2, 3, 4, 9, 8, 27; but the other numbers are,

	•
8	9
. 9	I 2
I 2	18
16	27
18	36
24	54
32	81
36	108
48	162

But in order to understand these numbers mathematically, it is necessary to know, in the first place, what is meant by arithmetical, geometrical, and harmonic proportion. Arithmetical proportion, then, is when an equal excefs is preferved in three or more given numbers; geometrical, when numbers preferve the fame ratio; and harmonic, when the middle term is exceeded by the greater, by the fame part of the greater as the excers of the middle term above the leffer exceeds the leffer. Hence, the numbers 1, 2, 3, are in arithmetical proportion; 2, 4, 8, in geometrical, fince as 2 is to 4, fo is 4 to 8; and 6, 4, 3, are in harmonic proportion, for 4 is exceeded by 6 by 2, which is a third part of 6, and 4 exceeds 3 by 1, which is the third part of 3. Again, fesquialter proportion is when one number contains another and the half of it befides, fuch as the proportion of three to 2; but fesquitertian proportion takes place when a greater number contains a leffer, and befides this, a third part of the leffer, as 4 to 3; and a fefquioctave ratio is when a greater number contains a leffer one, and an eighth part of it befides, as 9 to 8; and this proportion produces in mulic an entire tone, which is the principle of all fymphony. But a tone contains five fymphonies, viz. the diateffaron, or fefquitertian proportion, which is composed from two tones, and a femitone, which is a found lefs than a tone; the diahente, or fesquialter proportion, which is composed from three tones and a femitone; the diapafon, or duple proportion, i. e. four to two, which is composed from fix tones; the diapafon diapente, which confifts of nine tones and

and a femitone; and the *difdiapafon*, or quadruple proportion, i. e. four to one, which contains twelve tones.

But it is neceffary to observe further concerning a tone, that it cannot be divided into two equal parts; because it is composed from a sefurioctave proportion, and 9 cannot be divided into two equal parts. Hence, it can only be divided into two unequal parts, which are usually called semitones; but by Plato $\lambda_{SH}\mu\mu\alpha\tau\alpha$, or remainders. But the leffer part of a tone was called by the Pythagoreans diefis, or division; and this is supassfed by a fesquitertian proportion by two tones; and the remaining greater part, by which the tone supassfer the less femitone, is called apotome, or a cutting off.

But as it is requifite to explain the different kinds of harmony, in order to a knowledge of the composition of fymphonies, let the reader take notice that harmony receives a triple division, into the Diatonic, Enharmonic, and Chromatic. And the Diatonic genus takes place when its division continually proceeds through a lefs femitone and two tones. But the Enharmonic proceeds through two diefes. And the Chromatic is that which afcends through two unequal femitones and three femitones; or Tringuitoviov, according to the appellation of the antient mulicians. And to thefe three genera all mufical inftruments are reduced, becaufe they are all compofed from these harmonies. But though there were many different kinds of instruments among the antients, yet the Pythagorean and Platonic philosophers used only three-the Monochord, the Tetrachord, and the Polychord; to which three they refer the composition of all the other inftruments. From among all thefe, therefore, Plato affumes the diatonic harmony, as more agreeable to nature; in which the tetrachord proceeds through a lefs femitone and two tones; tending by this means from a lefs to a greater femitone, as from a more flender to a more powerful matter, which poffeffes a fimple form, and is at the fame time both gentle and robuft. And hence, as all inftruments are conversant with these three kinds of harmony, Plato, fays Proclus, in confequence of preferring the diatonic harmony, alone ufes two tones when he orders us to fill up the fesquitertian, fesquioctave and femitone intervals.

With refpect to the first numbers, which are evidently those described by Plato, the first three of these, 1, 2, 3, as Syrianus beautifully observes, may vol. II. 3 L be be confidered as reprefenting the foul of the world, abiding in, proceeding from, and returning to, herfelf, viz. abiding according to that first part, proceeding through the fecond, and this without any paffivity or imbecility, but returning according to the third: for that which is perfective accedes to beings through conversion. But as the whole of the mundane foul is perfect. united with intelligibles, and eternally abiding in intellect, hence the providentially prefides over fecondary natures; in one refpect indeed over those which are as it were proximately connected with herfelf, and in another over folid and compacted bulks. But her providence over each of thefe is twofold. For those which are connected with her effence in a following order, proceed from her according to the power of the fourth term (4). which poffeffes generative powers; but return to her according to the fifth (9), which reduces them to one. Again, folid natures, and all the fpecies which are difcerned in corporeal' maffes, proceed according to the octuple of the first part (i. e. according to 8), which number is produced by two, is folid, and poffeffes generative powers proceeding to all things; but they return according to the number 27, which is the regreffion of folids, proceeding as it were from the ternary, and exifting of the fame order according to nature : for fuch are all odd numbers.

And thus much for the first feries of numbers, in which duple and triple ratios are comprehended; but after this follows another feries, in which the duple are filled with fefquitertian and fefquialter ratios, and the fefquitertian fpaces receive a tone. And here, in the first place, in the duple progression between 6 and 12, we may perceive two mediums, 8 and 9. And 8 indeed fubfifts between 6 and 12 in an harmonic ratio; for it exceeds 6 by a third part of 6, and it is in like manner exceeded by 12 by a third part of 12. Likewife 8 is in a fesquitertian ratio to 6, but 12 is sesquialter to 8. Besides, the difference between 12 and 8 is 4, but the difference between 8 and 6 is 2. And hence, 4 to 2, as well as 12 to 6, contains a duple ratio: and thefe are the ratios in which the artifice of harmony is continually employed. We may likewife compare 9 to 6 which is fefquialter, 12 to 9 which is fefquitertian, and 9 to 8 which is fefquioctave, and forms a tone; and from this comparifon we fhall perceive that two fefquitertian ratios are bound together by this fefquioctave, viz. 8 to 6 and 9 to 12. Nor is an arithmetical medium wanting in these numbers; for 9 exceeds 6 by 3, and is by the same number exceeded

exceeded by 12. And in the fame manner we may proceed in all the following duple ratios, binding the duple by the fefquitertian and fefquialter, and connecting the two fefquitertians by a fefquioctave ratio. We may run through the triple proportions too in a fimilar manner, excepting in the tone. But becaufe fefquitertian ratios are not alone produced from two tones, but from a femitone, and this a leffer, which is deficient from a full tone by certain finall parts, hence Plato fays, that in the fefquitertian ratios a certain finall portion remains '. And thus much may fuffice for an epitome of the mode in which the duple and triple intervals are filled.

But the words of Plato refpecting these intervals plainly show, as Proclus well observes, that he follows in this instance the doctrine of the antient theologists. For they affert, that in the artificer of the universe there are feparating and connecting powers, and that through the former he feparates his government from that of his father Saturn, but through the latter applies the whole of his fabrication to his paternal unity; and they call thefe operations incifions and bonds. Hence the demiurgus, dividing the effence of the foul, according to these powers in demiurgic bounds, is faid to cut the parts from their totality, and again to bind the fame with certain bonds, which are *µio'orytis, middles* or *mediums*, and through which he connects that which is divided, in the fame manner as he divides, through fections, that which is united. And as the first numbers, 1, 2, 3, 4, 9, 8, 27, represented those powers of the foul by which the abides in, proceeds from, and returns to, herfelf, and caufes the progression and conversion of the parts of the univerfe-fo, in these fecond numbers, the sefuritertian, sefulialter, and other ratios conflitute the more particular ornament of the world; and, while they fubfift as wholes themfelves, adorn the parts of its parts.

I only add, that we muft not fuppofe thefe numbers of the foul to be a multitude of unities; but we muft conceive them to be vital felf-motive natures, which are indeed the images of intellectual numbers, but the exemplars of fuch as are apparent to the eye of fenfe. In like manner, with refpect to harmony, foul is neither harmony itfelf, nor that which fubfifts in harmonized natures. For harmony itfelf is uniform, feparate, and exempt from the whole of things harmonized; but that which fubfifts in things har-

monized

¹ The proportion of 256 to 243 produces what is called in mufic *remains*, or that which remains.

monized is dependent on others, by which also it is naturally moved. But the harmony of the foul subsists in the middle of these two, imparting harmony to others, and being the first participant of it herself.

In order to understand the figure of the foul, in the first place, mathematically, conceive all the above-mentioned numbers to be defcribed in a certain ftraight rule, according to the whole of its breadth; and conceive this rule to be afterwards divided according to its length. Then all thefe ratios will fubfift in each part of the fection. For, if the division were made according to breadth, it would be neceffary that fome of the numbers should be feparated on this fide, and others on that. Afterwards let the two lengths of the rule be mutually applied to each other, viz. in the points which divide thefe lengths in half: but let them not be fo applied as to form right angles. for the intended circles are not of this kind. Again, let the two lengths be fo incurvated, that the extremes may touch each other; then two circles will be produced, one interior and the other exterior, and they will be mutually oblique to each other. But one of thefe will be the circle of famenefs, and the other of *difference*; and the one will fubfift according to the equinoctial circle, but the other according to the zodiac : for every circle of difference is rolled about this, as of identity about the equinoctial. Hence, these rectilinear fections ought not to be applied at right angles, but according to the fimilitude of the letter X, agreeably to the mind of Plato, fo that the angles in the fummit only may be equal; for neither does the zodiac cut the equinoctial at right angles. And thus much for the mathematical explanation of the figure of the foul.

But again, fays Proclus, referring the whole of our difcourfe to the effence of the foul, we fhall fay that, according to the mathematical difciplines, continuous and difcrete quantity feem in a certain refpect to be contrary to each other; but in foul both concur together, i. e. union and divifion. For foul is both unity and multitude, and one reafon and many; and fo far as fhe is a whole fhe is continuous, but fo far as number fhe is divided, according to the reafons which fhe contains. Hence, according to her continuity, fhe is affimilated to the union of intelligibles; but, according to her multitude, to their diffinction. And if you are willing to afcend ftill higher in fpeculations, foul, according to her union, poffeffes a veftige and refemblance of *the one*, but according to her division fhe exhibits the multitude of

of divine numbers. Hence we must not fay that she alone possesses an arithmetical effence, for the would not be continuous; nor alone a geometrical effence, for the would not be divided: the is therefore both at once, and must be called both arithmetical and geometrical. But fo far as she is arithmetical, fhe has at the fame time harmony conjoined with her effence; for the multitude which the contains is elegant and composite, and receives in the fame and at once both that which is effential quantity and that which is related. But fo far as fhe is geometrical, fhe has that which is fpherical connected with her effence. For the circles which the contains are both immovable and moved; immovable indeed according to effence, but moved according to a vital energy; or, to fpeak more properly, they may be faid to poffefs both of thefe at once, for they are felf-motive: and that which is felf-motive is both moved and is at the fame time immovable, fince a motive power feems to belong to an immovable nature. Soul, therefore, effentially pre-affumes all difciplines; the geometrical, according to her totality, her forms, and her lines; the arithmetical, according to her multitude and effential unities; the harmonical, according to the ratios of numbers; and the fpherical, according to her double circulations. And, in fhort, fhe is the effential, felf-motive, intellectual, and united bond of all difciplines, purely comprehending all things; figures in an unfigured manner; unitedly fuch things as are divided; and without diftance fuch as are diftant from each other.

We are likewife informed by Proclus, that, according to Porphyry, a character like the letter X comprehended in a circle was a fymbol with the Egyptians of the mundane foul; by the right lines, perhaps (fays he), fignifying its biformed progreffion, but by the circle its uniform life and intellective progrefs, which is of a circular nature. But of thefe circles the exterior, or the circle of famenets, reprefents the dianoëtic power of the foul; but the interior, or the circle of difference, the power which energizes according to opinion : and the motion which is perpetually revolved in famenefs, and which comprehends the foul, is intellect.

Again, we have before obferved that, according to the Platonic philosophy, the planets revolve with a kind of spiral motion; while variously wandering under the oblique zodiac, they at one time verge to the fouth, and at another to the north, sometimes advance, and sometimes retreat, and being at one time

time more diftant from and at another nearer to the earth. And this motion, indeed, very properly belongs to them, from their middle position, as it is a medium between the right-lined motion of the elements and the circular motion of the inerratic fphere: for a fpiral is mixed from the right line and circle. Add too, that there are feven motions in the heavens; the circular, before, behind, upwards, downwards, to the right hand, and to the left. But the spheres alone posses a circular motion. And the stars in the inerratic fphere revolve about their centres; but at the fame time have an advancing motion, becaufe they are drawn along towards the weft by the fphere in which they are fixed. But they are entirely defitute of the other five motions. On the contrary, the planets have all the feven. For they revolve about their own centres, but are carried by the motions of their fpheres towards the eaft. And befides this, they are carried upwards and downwards, behind and before, to the right hand and to the left. Every ftar, too, by its revolution about its own centre, imitates the energy of the foul which it contains about its own intellect; but by following the motion of its iphere, it imitates the energy of the fphere about a fuperior intellect. We may likewife add, that the uniformity in the motions of the fixed ftars confers union and perfeverance on inferior concerns; but that the manifold and opposite motions of the planets contribute to the production, mingling and governing of things various and oppofite.

And here, as the reader will doubtlefs be defirous of knowing why earth is called by Plato the first and most antient of the Gods within the heavens, I doubt not but he will gratefully receive the following epitome of the beautiful account given by Proclus of the earth in his ineftimable commentaries on this venerable dialogue.--" Earth (fays he) first proceeds from the intelligible earth which comprehends all the intelligible orders of the Gods, and from the intellectual earth which is co-ordinated with heaven. For our earth, being analogous to thefe, eternally abides, as in the centre of heaven; by which being every way comprehended, it becomes full of generative power and demiurgic perfection. The true earth, therefore, is not this corporeal and groß bulk, but an animal endued with a divine foul and a divine body. For it contains an immaterial and feparate intellect, and a divine foul energizing about this intellect, and an ethereal body proximately depending on this foul; and, laftly, this vifible bulk, which is on all fides animated and filled
filled with life from its infpiring foul, and through which it generates and nourifhes lives of all-various kinds. For one fpecies of life is rooted in the earth, and another moves about its furface. For how is it poffible that plants fhould live while abiding in the earth, but when feparated from it die, unlefs its visible bulk was full of life? Indeed it must universally follow that wholes must be animated prior to parts : for it would be ridiculous that man fhould participate of a rational foul and of intellect, but that earth and air fhould be deprived of a foul, fublimely carried in these elements as in a chariot, governing them from on high, and preferving them in the limits accommodated to their nature. For, as Theophrastus well observes, wholes would poffers lefs authority than parts, and things eternal than fuch as are corruptible, if deprived of the poffeffion of foul. Hence there muft neceffarily be a foul and intellect in the earth, the former caufing her to be prolific, and the latter connectedly containing her in the middle of the univerfe. So that earth is a divine animal, full of intellectual and animaltic effences, and of immaterial powers. For if a partial foul, fuch as ours, in conjunction with its proper ethereal vehicle, is able to exercife an exuberant energy in a material body, what ought we to think of a foul fo divine as that of the earth? Ought we not to affert, that by a much greater priority fhe uses these apparent bodies through other middle vehicles, and through thefe enables them to receive her divine illuminations?

"Earth then fublifting in this manner, fhe is faid, in the first place, to be our nurfe, as possible provide the first place, as power equivalent to heaven; and because, as heaven comprehends divine animals, so earth appears to contain such as are earthly. And, in the second place, as inspiring our life from her own proper life. For she not only yields us fruits, and nouriss our bodies through these, but the fills our fouls with illuminations from her own divine foul, and through her intellect awakens ours from its oblivious sheep. And thus, through the whole of herself, she becomes the nurse of our whole composition.

"But we may confider the poles as powers which give ftability to the univerfe, and excite the whole of its bulk to intelligible love; which connect a divifible nature indivifibly, and that which poffeffes interval in an united and indiftant manner. But the axis is one divinity congregating the centres of the univerfe, connecting the whole world, and moving its 4 divine circulations; about which the revolutions of the flars fubfift, and which fuftains the whole of the heavens by its power. And hence it is called Atlas, from the immutable and unwearied energy with which it is endued. Add too that the word $\tau \sin \alpha \mu \sin \alpha$, extended, fignifies that this one power is Titanic, guarding the circulations of the wholes which the universe contains.

"Earth is likewife called the guardian and fabricator of night and day. And that fhe caufes the night indeed is evident; for her magnitude and figure give that great extent to the conical fhadow which fhe produces. But fhe is the fabricator of the day, confidered as giving perfection to the day which is conjoined with night; fo that earth is the artificer of both thefe in conjunction with the fun.

"But fhe is the moft antient and first of the Gods in the heavens, confidered with refpect to her ftability and generative power, her fymphony with heaven, and her position in the centre of the universe. For the centre possesses a mighty power in the universe, as connecting all its circulations; and hence it was called by the Pythagoreans the tower of Jupiter, from its containing a demiurgic guard. And if we recollect the Platonic hypothesis concerning the earth (which we have mentioned before), that our habitable part is nothing but a dark hollow, and very different from the true earth, which is adorned with a beauty similar to that of the heavens, we shall have no occasion to wonder at her being called the first and most antient of the celessa."

Again, according to the Platonic philofophy, fome of the fixed ftars are fometimes fo affected, that for a confiderable fpace of time they become invisible to us; and in this cafe, both when they withdraw themfelves from our view, and when they again make their appearance, they are faid by fuch as are fkilled in thefe affairs, according to the information of Proclus ', both to produce and fignify mighty events. But though it is evident from the very words of Plato, in this part of the dialogue, that this opinion concerning certain ftars difappearing and becoming again visible was entertained by all the aftronomers of his time, and by the Pythagoreans prior to him,

¹ In Tim. p. 285. And in p. 333 he informs us, that the fixed ftars have periods of revolution, though to us unknown, and that different ftars have different periods. See alfo Chaleidius in Plat. Tim. p. 218.

yet this most interesting circumstance seems to have been utterly unknown to the moderns. Hence, not in the least fuspecting this to be the case, they have immediately concluded from stars appearing of which we have no account, and others disappearing which have been observed in the heavens for many ages, that the stars are bodies, like earthly natures, subject to generation and decay. But this is not wonderful, if we consider that such men as these have not the smalless conception that the universe is a perfect whole; that every thing perfect must have a first, middle, and last; and that, in consequence of this, the heavens alone can rank in the first place, and earth in the last.

As the univerfe, indeed, as well as each of its principal parts or wholes, is *herhetual*, and as this perpetuity being temporal can only fubfift by periodical circulation, hence all the celeftial bodies, in order that all the poffible variety of things may be unfolded, form different periods at different times; and their appearings and difappearings are nothing more than the reftitutions of their circulations to their priftine ftate, and the beginnings of new periods. For according to thefe efpecially, fays Proclus, they turn and transfinute mundane natures, and bring on abundant corruptions and mighty mutations, as Plato afferts in the Republic.

In the next place, from the fublime speech of the demiurgus to the junior or mundane Gods, the reader may obtain full conviction that the Gods of the antients were not dead men deified; for they are here reprefented as commanded by the mundane artificer to fabricate the whole of the mortal race. And with refpect to the properties of the fublunary Gods, which Plato comprehends in nine divinities, Proclus beautifully obferves that Heaven bounds, Earth corroborates, and Ocean moves, the whole of generation. That Tethys establishes every thing in its proper motion, intellectual natures in intellectual, middle natures in animal, and corporeal natures in phyfical motion; Ocean at the fame time moving all things collected together in one. But Saturn distributes intellectually only, Rhea vivifies, Phorcys fcatters spermatic reasons, Juliter gives perfection to things apparent from unapparent caufes, and Juno evolves according to the all-various mutations of apparent natures. And thus through this ennead the fublunary world is in a becoming manner diffributed and filled; divinely indeed from the Gods, angelically from angels, and dæmoniacally from VOL. II. dæmons. 3 M .

And again, the Gods fubfifting about bodics, fouls, and intellects : dæmons. angels exhibiting their providence about fouls and bodies; and dæmons being divided about the fabrication of nature, and the care of bodies. But it may be afked, Why does Plato comprehend the whole extent of the Gods producing generation, in thefe nine divinities? Becaufe, fays Proclus, this ennead accomplifhes the fabrication of generation. For in the fublunary regions there are bodies and natures, fouls and intellects, and thefe both totally and partially. And all these subsist in both respects, that is both totally and partially, in each of the elements, becaufe wholes and parts fubfift together. Hence, as each element ranks as a monad, and contains bodies and natures, fouls and intellects, both totally and partially, an ennead will evidently be produced in each. But Heaven and Earth generate the unapparent effences of thefe, the former according to union, and the latter according to multiplication : but Ocean and Tethys give perfection to their common and distributed motion; at the fame time that the motion of each is different. In like manner, with respect to the wholes which are adorned, Saturn diffributes things partial from fuch as are total, but in an intellectual manner. But Rhea calls forth this diffribution from intellectual natures into all-various progressions, and as far as to the ultimate forms of life, in confequence of her being a vivific Goddefs. But Phorcys produces the Titanic diffinction, as far as to natural reafons. And after thefe three, the fathers of composite natures fucceed. And Jupiter indeed orderly disposes fenfible natures totally, in imitation of Heaven. For in the intellectual order, and in the royal feries, he proceeds analogous to Heaven '. But Juno moves the wholes, fills them with powers, and unfolds them according to every progreffion. And the Gods posterior to these fabricate the partial works of fenfible natures, according to the characteriftics by which they are diffinguifhed; viz. the demiurgic, the vivific, the perfective, and the connective, unfolding and diffributing themfelves as far as to the laft of things. For these last are all of them analogous to the Saturnian order, from whofe government the diffributive characteriftic originally proceeds.

Again, by the Crater in which the mundane foul was mingled, we muft

¹ For there are fix kings, according to Orpheus, who prefide over the univerfe—Phanes, Night, Heaven, Saturn, Jupiter, Bacchus; and of thefe Saturn proceeds analogous to Phanes, and Jupiter to Heaven.

understand

understand the vivisic Goddes's Juno; by the term *mingling*, a communion of effence; and by a fecond mixture in a certain respect the fame, but yet deficient from the first in a fecond and third degree, the fimilitude and at the fame time inferiority of partial to total fouls, and the order subsisting among partial fouls. For some of these are pure and undefiled, affociating with generation but for a fhort time, and this for the God-like purpose of benefiting more ingenious souls; but others wander from their true country for very extended periods of time. For between souls which abide on high without defilement, and such as defcend and are defiled with vice, the medium must be such sould be fuch fouls as defcend, indeed, but without defilement.

But when the artificer of the universe is faid to have diffributed fouls equal in number to the flars, this must not be understood as if one partial foul was distributed under one of the stars, and that the quantity of fouls is equal to that of the flarry Gods; for this would be perfectly inconfiftent with what Plato afferts a little before, that the artificer diffeminated fome of thefe into the earth, fome into the fun and fome into the moon, thus fcattering a multitude into each of the inftruments of time. But, as Proclus well obferves, equality of number here muft not be understood monadically. but according to analogy. For in numbers, fays he, ten is analogous to unity, thirty to three, fifty to five, and entirely all the numbers posterior to the decad, to all within the decad. And hence five is not equal to fifty in quantity, nor three to thirty, but they are only equal according to analogy. After this manner, therefore, the equal in number must be allumed in partial fouls; fince there is a number of thefe accommodated to every divine foul, and which each divine foul uniformly pre-affumes in itfelf. And hence, when it unfolds this number, it bounds the multitude of partial fouls diffributed under its effence. Likewife, with refpect to thefe depending fouls, fuch as are first suspended from a divine foul are less in number, but greater in power; but fuch as are fecond in progreffion are lefs in power, but more extended in number ; while at the fame time each is analogous to the divine caufe from which it proceeds.

Obferve, too, that when Plato uses the term *the most pious of animals*, man alone is not implied, but the inhabitants likewise or partial fouls of the feveral fpheres and stars: for, fays Proclus, between eternal animals¹, and

> i. e. ftars and fpheres. 3 M 2

fuch

fuch as live but for a fhort period ', (viz. whofe periods of circulation are fhort) it is neceffary there fhould be a fpecies of rational animals more divine than man, and whofe existence is of a very extended duration. It is likewife worthy of observation, that the foul is conjoined with this gross body through two vehicles as mediums, one of which is ethereal and the other aërial: and of these the ethereal vehicle is *fimple and immaterial*, but the aërial *fimple and material*; and this dense earthly body is *composite and material*.

Again, when our fouls are reprefented after falling into the prefent body as fuffering a transmutation into brutes, this, as Proclus beautifully observes. must not be understood as if our fouls ever became the animating principles of brutal bodies, but that by a certain fympathy they are bound to the fouls of brutes, and are as it were carried in them, just as evil dæmons infinuate themfelves into our phantafy, through their own depraved imaginations. And by the circulations of the foul being merged in a profound river and impetuoufly borne along, we must understand by the river, not the human body alone, but the whole of generation (with which we are externally furrounded) through its fwift and unftable flowing. For thus, fays Proclus, Plato in the Republic calls the whole of generated nature the river of Lethe, which contains both Lethe and the meadow of Ate, according to Empedocles 2; the devouring jaws of matter and the light-hating world, as it is called by the Gods; and the winding rivers under which many are drawn down, as the oracles ³ affert. But by the circulations of the foul the dianoëtic and doxaftic powers are fignified; the former of which, through the foul's conjunction with the body, is impeded in its energies, and the latter is Titanically torn in pieces under the irrational life.

Again, if we confider man with reference to a contemplative life, which is the true end of his formation, we fhall find that the head, which is the inflrument of contemplation, is the principal member, and that the other members were only added as miniftrant to the head. With refpect to fight,

* i. e. men.

² Εν ή και ή Ληθη, και ό της Ατης λειμων, ώς φησιν Εμπεδοκλης, και το λαξρον της ύλης, και ό μισοφαινς κοσμος, ώς όι θεοι λεγουσι, και τα σκολια ρειθρα, ύφ' ών δι πολλοι κατασυρονται, ώς τα λογια φησιν. Procl. in Tim. p. 339. See more concerning this in my Differtation on the Eleusinian and Bacchic Mysteries.

³ Viz. the oracles of Zoroafter.

it must be observed that Democritus, Heraclitus, the Stoics, many of the Peripatetics and antient geometricians, together with the Platonifts, were of opinion that vision fubfifts through a lucid spirit emitted from the eyes : and this fpirit, according to Plato and his followers, is an unburning vivific fire fimilar to celeftial fire, from which it originally proceeds. But this fire, the illuminations of which, as we have already observed, give life to our mortal part, is abundantly collected in the eye as in a fat diaphanous fubftance, whofe moifture is most shining and whofe membranes are tender and transparent, but yet sufficiently firm for the purpose of preferving the inherent light. But a most ferene ray shines through the more folid pupil; and this ray originates internally from one nerve, but is afterwards derived through two finall nerves to the two eyes. And thefe nerves, through the fat humours of the eyes, winding under the tunics, arrive at length at the pupils. But a light of this kind, thus preferved in the fmall nerves, and burfting through the narrow pupils as foon as it fhines forth into difperfed rays, as it commenced from one ray, fo it immediately returns into one. from the rays naturally uniting in one common ray: for the eyes alfo. on account of their lubricity, roundnefs, and fmooth fubftance, are eafily moved hither and thither, with an equal and fimilar revolution. This vifual ray, however, cannot proceed externally and perceive objects at a diftance, unlefs it is conjoined with external light proceeding conically to the eyes; and hence our ray infinuating itfelf into this light, and becoming ftrengthened by the affociation, continues its progreffion till it meets with fome oppofing object. But when this is the cafe, it either diffuses itself through the fuperficies of the object, or runs through it with wonderful celerity, and becomes immediately affected with the quality of the object. And a refiftance, motion, and affection of this kind produces vision, viz. from the vibration of the ray thus affected gradually arriving at the inftrument of fight, and by this means exciting that image of the object which is naturally inherent in the inftrument, and through which when excited perception enfues. For there are three particulars which belong in general to all the fenfes; firft, an image or mark of the fenfible thing impreffed in the fenfitive inftrument; and this conflituted both in paffion and energy in a certain fimilitude to the fenfible object : but afterwards we must confider an impression of this kind as now perfect, and ending in fpecies, viz. in the common composite life : and

and, in the third place, that inherent reafon of the foul enfues, which germinates from the fentitive foul, is accommodated to fpecies of this kind, and is that through which fentitive judgment and cogitation fubfift.

But further, the Platonifts admit, with Democritus and Empedocles, that certain material images of things flow through the pores of bodies, and preferve, to a certain diffance, not only the qualities but likewife the fhape of the bodies from which they flow. And thefe radial images are intimated by Plato in this dialogue, in the Sophista, and in the feventh book of his Republic; in commenting on the laft of which, Proclus observes as follows: " According to Plato, (fays he) reprefentations of things are hypoftafes of certain images fabricated by a dæmoniacal art, as he teaches us in the Sophista; for shadows, of which they fay images are the companions, polfefs a nature of this kind. For thefe are the effigies of bodies and figures, and have an abundant fympathy with the things from which they fall; as is evident from what the arts of magicians are able to effect, and from what they tell us concerning images and fhadows. But why fhould I fpeak of the powers of magicians, when irrational animals are able to operate through images and fhadows, prior to all reafon? for they fay that the hyæna, by trampling on the fhadow of a dog feated on an eminence, will hurl him down and devour him; and Aristotle fays, that if a woman, during her menftrua, looks into a mirror, the will defile both the mirror and the apparent image."-Οτι κατα Πλατωνα άι εμφασεις ύποστασεις εισιν ειδωλων τινων δαιμονια μηχανή δημιουργουμεναι, καθαπερ αυτος εν τω σοΦιστή διδασκει. Και γαρ άι σκιαι άις τα ειδωλα συζυγειν Φησι τοιαυτην εχουσι Φυσιν. Και γαρ αυται σωματων εισι και σχηματων εικονες, και παμπολυν εχουσι προς τα αΦ΄ ών εμπιπζουσι συμπαθειαν, ώς δηλουσι και όσα μαχων (lege μαγων) τεχναι προς τε τα ειδωλα δραν και επαγγελλουται και τας σκιας. Και τι λεγω τας εκεινων δυναμεις ά και τοις αλογοις ηδη ζωοις ύπαρχη προ λογου πανζος ενεργειν. Η γαρ ύχινα Φασιν την του κυνος εν ύψει καθημενου πατησασα σκιαν καταβαλλει, και θοινην ποιητλι τον χυνα. Και γυναικος χαθαιρουμενης Φησιν Αριστοτελης, εις ενοπβρον ιδουσης, άιματουται, το τε ενοπτρον, και το εμφαινομενον ειδωλον .-- And he likewife informs us in the fame place, that these images, on account of their flender existence, cannot otherwife become visible to our eves, than when, in confequence of being eftablished, reftored, and illuminated in mirrors, they again receive their priftine power and the shape of their originals. Hence, fays he, density

³ Vid. Procl. in Plat. Polit. p. 430.

is required in the body which receives them, that the image may not be diffipated from the rarity of the receptacle, and that from many defluxions it may pass into one form. But finoothness likewise is required, left the afperity of the receptacle, on account of the prominency of some of its parts and the depth of others, should be the cause of inequality to the image. And, laftly, splendour is required; that the image, which naturally possibles a flender form, may become apparent to the fight.

In the next place, with respect to matter, and the various epithets by which Plato calls it in this dialogue, it is neceffary to obferve, that as in an afcending feries of fubjects we must arrive at length at fomething which is better than all things, fo in a defcending feries our progression must be stopped by fomething which is worfe than all things, and which is the general receptacle of the laft procession of forms. And this is what the antients called matter, and which they confidered as nothing more than a certain indefinitenefs of an incorporeal, indivisible, and intellectual nature, and as fomething which is not formally impreffed and bounded by three dimensions, but is entirely remitted and refolved, and is on all fides rapidly flowing from being into non-entity. But this opinion concerning matter, fays Simplicius ', feems to have been adopted by the first Pythagoreans among the Greeks; and after these by Plato, according to the relation of Moderatus. For he fhows us-" that, according to the Pythagoreans, there is a first one fubfisting prior to the effence of things and every fubftance; that after this, true being and intelligible or forms fubfilt : and, in the third place, that which pertains to foul, and which participates of *the one* and of intellectual forms. But after this (fays he) the laft nature, which is that of fenfilies, fubfifts; which does not participate of the preceding natures, but is thus affected and formed according to the reprefentation of thefe; fince the matter of fenfible natures is the fladow of that non-being which primarily fubfifts in quantity, or rather may be faid to depend upon, and be produced by, this." Hence Porphyry, in his fecond book on Matter, fays Simplicius, obferves that Plato calls matter, quantity, which is formlefs, indivifible, and without figure; but capacious, and the receptacle of form, figure, division, quality, and other things of a fimilar kind. And this quantity and form, confidered according

In Ariftot. Phyf. p. 50, b.

4

INTRODUCTION TO THE TIMÆUS.

to the privation of a uniform reafon, which comprehends all the reafons of beings in itfelf, is the paradigm of the matter of bodies; which, favs Porphyry, both Plato and the Pythagoreans call a quantum, not after the fame manner as form is a quantum, but according to privation and analysis, extenfion and divultion, and its mutation from being. Matter, therefore, according to this doctrine, as Simplicius well obferves, is nothing elfe than the permutation and vicifitude of fenfible forms, with refpect to intelligibles; fince from thence they verge downwards, and extend to perfect non-entity, or the last of things-that is, to matter itself. Hence, fays he, because dregs and matter are always the last of things, the Egyptians affert that matter, which they enigmatically denominate water, is the dregs of the first life; fubfifting as a certain mire or mud, the receptacle of generable and fenfible natures; and which is not any definite form, but a certain conflitution of fubfiftence, in the fame manner 'as that which is indivifible, immaterial and true being, is a conflictution of an intelligible nature. And though all forms fubfift both in intelligibles and in matter, yet in the former they fubfift without matter, indivisibly and truly; but in the latter divisibly, and after the manner of shadows. And on this account every fensible form is diffipated through its union with material interval, and falls from the flability and reality of being.

But the following profound and admirable defcription of matter by Plotinus (Ennead. 3, lib. 6) will, I doubt not, be gratefully received by the Platonic reader .--- " Since matter (fays he) is neither foul, nor intellect, nor life, nor form, nor reason, nor bound, but a certain indefiniteness; nor yet capacity, for what can it produce ? fince it is foreign from all thefe, it cannot merit the appellation of being ; but is defervedly called non-entity. Nor yet is it non-entity in the fame manner as motion and permanency are non-beings, confidered as different from being: but it is true non-entity; the mere fhadow and imagination of bulk, and the defire of fubfiftence; remaining fixed without abiding, of itfelf invifible, and avoiding the defire of him who is anxious to perceive its nature. Hence, when no one perceives it, it is then in a manner prefent; but cannot be viewed by him who ftrives intently to behold it. Again, in itfelf contraries always appear; the fmall and the great, the lefs and the more, deficience and excefs. So that it is a phantom, neither abiding nor yet able to fly away; capable of no one denomination, and

and poffeffing no power from intellect; but is conftituted in the defect and fhade, as it were, of all real being. Hence, too, in each of its vanishing appellations, it eludes our fearch : for, if we think of it as fomething great, it is in the mean time fmall; if as fomething more, it becomes lefs; and the apparent being which we meet with in its image is non-being, and, as it were, a flying mockery. So that the forms which appear in matter are merely ludicrous; fhadows falling upon fhadow, as in a mirror, where the polition of the apparent is different from that of the real object; and which. though apparently full of forms, poffeffes nothing real and true. But the things which enter into, and depart from, matter, are nothing but imitations of being, and femblances flowing about a formlefs femblance. They feem. indeed, to effect fomething in the fubject matter, but in reality produce nothing; from their debile and flowing nature being endued with no folidity and no rebounding power. And fince matter likewife has no folidity, they penetrate it without division, like images in water, or as if any one should fill a vacuum with forms,"

Such, then, being the true condition of matter and her inherent fhadowy forms, we may fafely conclude that whatever becomes corporeal in an eminent degree has but little power of recalling itfelf into one; and that a nature of this kind is ready by every trifling impulse to remain as it is im-pelled; to rufh from the embraces of bound, and haften into multitude and non-entity. Hence, as Plotinus beautifully observes, (Ennead. 3, lib. 6,)-" those who only place being in the genus of body, in confequence of impulfes and concuffions, and the phantafins perceived through the fenfes. which perfuade them that fenfe is alone the ftandard of truth, are affected like those in a dream, who imagine that the perceptions of fleep are true. For fenfe is alone the employment of the dormant foul; fince as much of the foul as is merged in body, fo much of it fleeps. But true elevation and true vigilance are a refurrection from, and not with, the dull mass of body. For, indeed, a refurrection with body is only a transmigration from fleep to fleep, and from dream to dream, like a man paffing in the dark from bed to bed. But that elevation is perfectly true which entirely rifes from the dead weight of bodies; for these, possessing a nature repugnant to foul, possess fomething opposite to effence. And this is further evident from their gene-

VOL. II.

ration,

ration, their continual flowing and decay; properties entirely foreign from the nature of being, fubftantial and real."

Laftly, when Plato composes the elements from mathematical planes, it is neceffary to obferve that, as thefe are physical planes, they must not only have length and breadth, but likewife depth, that they may be able to fubfift as principles in natural effects .- " For the Pythagoreans (fays Simplicius ') confidered every phyfical body as a figured quantity, and as in itfelf matter, but fashioned with different figures. That, besides this, it differs from a mathematical body in being material and tangible, receiving its tangibility from its bulk, and not either from heat or cold. Hence, from the fubject matter being impressed with different figures, they affert that the four elements of the elements fublift. For thefe elements rank more in the nature of principles, as for inftance, the cubic of earth; not that earth has wholly a cubic figure, but that each of the parts of earth is composed from many cubes, which through their fmallnefs are invisible to our fight; and in the fame manner the other elements from other primary figures. They add too, that from this difference of figures all the other properties of the elements enfue, and their mutations into each other. For, if it is inquired why much air is produced from a little water, they can very readily affign the caufe by faying, that the elements of water are many, and that, the icofaedrons of water being divided, many octaedrons, and confequently a great quantity of air, will be produced."

Simplicius likewife informs us, that the more antient of Plato's interpreters, among which the divine Jamblichus ranks, confidered Plato as fpeaking fymbolically in this part concerning the figures of the elements; but the latter Platonic philofophers, among whom Proclus, in my opinion, ranks as the most eminent, explained this part according to its literal meaning. And Simplicius, in the fame book, has fortunately preferved the arguments of Proclus in defence of Plato's doctrine respecting these planes, against the objections of Aristotle.

Should it be afked in what this doctrine concerning planes differs from the dogma of Democritus, who afferted that natural bodies were fashioned

¹ De Cœlo, lib. iv. p. 139.

according

according to figures, we may answer with Simplicius ', that Plato and the Pythagoreans by a plane denoted fomething more fimple than a body ', atoms being evidently bodies; that they affigned commensuration and a demiurgic analogy ' to their figures, which Democritus did not to his atoms; and that they differed from him in their arrangement of earth.

And thus much may fuffice at prefent for an epitome of fome of the principal parts of this most interesting dialogue. For, as it is my defign at fome future period to publish as complete a commentary as I am able from the ineftimable commentaries of Proclus on this dialogue, with additional observations of my own, a more copious introduction might at prefent be confidered as fuperfluous. The difficulty, indeed, of proceeding any further, might alone very well apologife for the want of completion in this compendium. For the commentary of Proclus, though confifting of five books, is imperfect 4, and does not even extend fo far as to the doctrine of vision, which in the prefent introduction I have endeavoured to explain. I truft. therefore, that the candid and liberal reader will gratefully accept thefe fruits of my application to the Platonic philosophy; and as this introduction and the following tranflation were the refult of no moderate labour and perfeverance, I earneftly hope they may be the means of awakening fome few at least from the fleep of oblivion, of recalling their attention from fluctuating and delufive objects to permanent and real being; and thus may at length lead them back to their paternal port, as the only retreat which can confer perfect fecurity and reft.

- ¹ De Cœlo, p. 142.
- ² Viz. than any visible sublunary body.
- 3 i. e. active and fabricative powers.

⁴ It is a circumftance remarkably unfortunate, as I have before obferved, that not one of the invaluable commentaries of this philofopher has been preferved entire. For that he wrote a complete commentary on this dialogue, is evident from a citation of Olympiodorus on Ariffotle's Meteors from it, which is not to be found in any of the books now extant. In like manner, his treatife on Plato's theology is imperfect, wanting a feventh book; his commentaries on the Parmenides want many books; his feholia on the Cratylus are far from being complete; and this is likewife the cafe with his commentary on the Firft Alcibiades.

3 N 2

THE

PERSONS OF THE DIALOGUE.

SOCRATES, || TIMÆUS, ||

CRITIAS, HERMOCRATES.

Soc.

SEE one, two, three, but where, friend Timæus, is that fourth perfon, who being received by me yefterday at a banquet of difputation, ought now in his turn to repay me with a fimilar repaft?

TIM. He labours, Socrates, under a certain infirmity; for he would not willingly be abfent from fuch an affociation as the prefent.

Soc. It remains therefore for you, O Timæus, and the company prefent, to fill up the part of this absent guest.

TIM. Entirely fo, Socrates. And we fhall endeavour, to the utmost of our ability, to leave nothing belonging to fuch an employment unaccomplished. For it would be by no means just that we, who were yesterday entertained by you, in fuch a manner as guests ought to be received, should not return the hospitality with readiness and delight.

Soc. Do you recollect the magnitude and nature of the things which I propofed to you to explain ?

TIM. Some things, indeed, I recollect; but fuch as I have forgotten do you recall into my memory. Or rather, if it be not too much trouble, run over the whole in a curfory manner from the beginning, that it may be more firmly eftablished in our memory.

Soc. Let it be fo. And to begin: The fum of yesterday's difpute was, what what kind of republic appeared to me to be the beft, and from what fort of men fuch a republic ought to be composed.

TIM. And by us, indeed, Socrates, all that you faid was approved in the higheft degree.

Soc. Did we not, in the first place, feparate husbandmen and other artificers from those whom we confidered as the defenders of the city?

Тім. Certainly.

Soc. And when we had affigned to every one that which was accommodated to his nature, and had preferibed only one particular employment to every particular art, we likewife affigned to the military tribe one province only, I mean that of protecting the city; and this as well from the hoffile incurfions of internal as of external enemies; but yet in fuch a manner as to adminifter juffice mildly to the fubjects of their government, as being naturally friends, and to behave with warlike fiercenefs againft their enemies in battle.

TIM. Entirely fo.

Soc. For we afferted, I think, that the fouls of the guardians should be of fuch a nature, as at the same time to be both irascible and philosophic in a remarkable degree; fo that they might be gentle to their friends, and bold and ferocious to their enemies.

TIM. You did fo.

Soc. But what did we affert concerning their education? Was it not that they fhould be inftructed in gymnaftic exercises, in music, and other becoming difciplines?

TIM. Entirely fo.

Soc. We likewife eftablished, that those who were fo educated should neither confider gold, or filver, or any goods of a similar kind, as their own private property; but that rather, after the manner of adjutants, they should receive the wages of guardianship from those whom they defend and preferve; and that their recompense should be no more than is sufficient to a moderate subsistence. That, besides this, they should use their public stipend in common, and for the purpose of procuring a common subsistence with each other; so that, neglecting every other concern, they may employ their attention folely on virtue, and the discharge of their peculiar employment.

TIM. These things also were related by you.

Soc.

Soc. Of women too we afferted, that they fhould be educated in fuch a manner, as to be aptly conformed fimilar to the natures of men; with whom they fhould perform in common both the duties of war, and whatever elfe belongs to the bufinefs of life.

TIM. This too was afferted by you.

Soc. But what did we eftablish concerning the procreation of children ? Though perhaps you easily remember this, on account of its novelty. For we ordered that the marriages and children should be common; as we were particularly careful that no one might be able to distinguish his own children, but that all might confider all as their kindred; that hence those of an equal age might regard themselves as brothers and fisters; but that the younger might reverence the elder as their parents and grandfathers, and the elder might efteem the younger as their children and grandfons.

TIM. These things, indeed, as you fay, are easily remembered.

Soc. But that they might from their birth acquire a difpofition as far as poffible the beft, we decreed that the rulers whom we placed over the marriage rites fhould, through the means of certain lots, take care that in the nuptial league the worthy were mingled with the worthy; that no difcord may arife in this connection when it does not prove profperous in the end; but that all the blame may be referred to fortune, and not to the guardians of fuch a conjunction.

TIM. We remember this likewife.

Soc. We also ordered that the children of the good should be properly educated, but that those of the bad should be fecretly set to some other city; yet so that such of the adult among these as should be found to be of a good disposition should be recalled from exile; while, on the contrary, those who were retained from the sirft in the city as good, but proved afterwards bad, should be similarly banished.

TIM. Just fo.

Soc. Have we, therefore, fufficiently epitomized yesterday's disputation; or do you require any thing further, friend Timzus, which I have omitted?

TIM. Nothing, indeed, Socrates; for all this was the fubject of your difputation.

Soc. Hear now how I am affected towards this republic which we have defcribed; for I will illustrate the affair by a fimilitude. Suppose then that fome

fome one. on beholding beautiful animals, whether represented in a picture, or really alive, but in a flate of perfect reft, should defire to behold them in motion, and ftruggling as it were to imitate those gestures which seem particularly adapted to the nature of bodies; in fuch a manner am I affected towards the form of that republic which we have defcribed. For I should gladly hear any one relating the contefts of our city with other nations, when it engages in a becoming manner in war, and acts during fuch an engagement in a manner worthy of its inftitution, both with refpect to practical achievements and verbal negotiations. For indeed, O Critias and Hermocrates, I am confcious of my own inability to praife fuch men and fuch a city according to their defert. Indeed, that I should be incapable of fuch an undertaking is not wonderful, fince the fame imbecility feems to have attended poets both of the paft and prefent age. Not that I defpife the poetic tribe; but it appears from hence evident, that, as thefe kind of men are fludious of imitation, they eafily and in the beft manner express things in which they have been educated; while, on the contrary, whatever is foreign from their education they imitate with difficulty in actions, and with ftill more difficulty in words. But with refpect to the tribe of Sophifts, though I confider them as skilled both in the art of speaking and in many other illustrious arts; yet, as they have no fettled abode, but wander daily through a multitude of cities, I am afraid left, with refpect to the inftitutions of philosophers and politicians, they should not be able to conjecture the quality and magnitude of those concerns which wife and politic men are engaged in with individuals, in warlike undertakings, both in actions and difcourfe. It remains, therefore, that I fhould apply to you, who excel in the fludy of wifdom and civil administration, as well naturally as through the affiftance of proper discipline and inflitution. For Timæus here of Locris, an Italian city governed by the beft of laws, exclusive of his not being inferior to any of his fellow-citizens in wealth and nobility, has arrived in his own city at the highest posts of government and honours. Befides, we all know that Critias is not ignorant of the particulars of which we are now speaking. Nor is this to be doubted of Hermocrates, fince a multitude of circumstances evince that he is both by nature and education adapted to all fuch concerns. Hence, when you yesterday requested me to difpute about the inftitution of a republic, I readily complied with your requeft; being 4

being perfuaded that the remainder of the difcourfe could not be more conveniently explained by any one than by you, if you were but willing to engage in its difcuffion. For, unlefs you properly adapt the city for warlike purpofes, there is no one in the prefent age from whom it can acquire every thing becoming its conftitution. As I have, therefore, hitherto complied with your requeft, I fhall now require you to comply with mine in the above-mentioned particulars. Nor have you indeed refufed this employment, but have with common confent determined to repay my hofpitality with the banquet of difcourfe. I now, therefore, ftand prepared to receive the promifed feaft.

HERM. But we, O Socrates, as Timzus juft now fignified, fhall cheerfully engage in the execution of your defire; for we cannot offer any excufe fufficient to juftify neglect in this affair. For yefterday, when we departed from hence and went to the lodging of Critias, where we are accuftomed to refide, both in his apartment and prior to this in the way thither we difcourfed on this very particular. He therefore related to us a certain antient hiftory, which I wifh, O Critias, you would now repeat to Socrates, that he may judge whether it any way conduces to the fulfilment of his requeft.

CRIT. It is requisite to comply, if agreeable to Timæus, the third affociate of our undertaking.

Тім. I affent to your compliance.

CRIT. Hear then, O Socrates, a difcourfe furprifing indeed in the extreme, yet in every refpect true, as it was once related by Solon, the moft wife of the feven wife men. Solon, then, was the familiar and intimate friend of our great-grandfather Dropis, as he himfelf often relates in his poems. But he once declared to our grandfather Critias, (as the old man himfelf informed us,) that great and admirable actions had once been achieved by this city, which neverthelefs were buried in oblivion, through length of time and the deftruction of mankind. In particular he informed me of one undertaking more illuftrious than the reft, which I now think proper to relate to you, both that I may repay my obligations, and that by fuch a relation I may offer my tribute of praife to the Goddefs in the prefent folemnity, by celebrating her divinity, as it were, with hymns, juftly and in a manner agreeable to truth.

Soc. You fpeak well. But what is this antient achievement which was

not

not only actually related by Solon, but was once really accomplished by this city?

CRIT. I will acquaint you with that antient hiftory, which I did not indeed receive from a youth, but from a man very much advanced in years; for at that time Critias, as he himfelf declared, was almost ninety years old, and I myfelf was about ten. When, therefore, that folemnity was celebrated among us which is known by the name of Cureotis Apaturiorum ', nothing was omitted which boys in that feftivity are accustomed to perform. For, when our parents had fet before us the rewards proposed for the contest of finging verfes, both a multitude of verfes of many poets were recited, and many of us efpecially fung the poems of Solon, because they were at that time entirely new. But then one of our tribe, whether he was willing to gratify Critias, or whether it was his real opinion, affirmed that Solon appeared to him most wife in other concerns, and in things respecting poetry the moftingenious of all poets. Upon hearing this, the old man (for I very well remember) was vehemently delighted; and faid, laughing-If Solon, O Amynander, had not engaged in poetry as a cafual affair, but had made it, as others do, a ferious employment; and if through feditions and other fluctuations of the ftate, in which he found his country involved, he had not been compelled to neglect the completion of the hiftory which he brought from Egypt, I do not think that either Hefiod or Homer, or any other poet, would have acquired greater glory and renown. In confequence of this, Amynander inquired of Critias what that hiftory was. To which he anfwered, that it was concerning an affair the greatest and most celebrated

¹ The Apaturia, according to Proclus and Suidas, were feftivals in honour of Bacchus, which were publicly celebrated for the fpace of three days. And they were affigned this name, $\partial_t a \pi a \pi n$, that is, on account of the deception through which Neptune is reported to have vanquifhed Xanthus. The first day of thefe feftivals was called $\partial_{0}\pi \pi \epsilon a_{\lambda}$, in which, as the name indicates, those of the farme tribe feathed together; and hence (fays Proclus) on this day $\epsilon \omega \chi_{1a}$ is $\pi \epsilon \lambda_{1a}$, fplendid bunquets and much feafting took place. The fecond day was called $\alpha \nu \alpha \rho \rho \nu \sigma \epsilon_{\lambda}$, becaufe $\epsilon \rho \nu \rho \mu \epsilon_{\lambda}$, they were drawn upwords, and facrificed. The third day, of which Plato fpeaks in this place, was called $\kappa \nu \rho \epsilon \omega \tau \sigma_{\lambda}$, becaufe to this day $\kappa \rho \sigma_{\lambda}$, so right, were collected together in tribes, with their hir florn. And to thefe fome add a fourth day, which they call $\epsilon \pi \ell \delta a$, or the day after. Proclus further informs us, that the boys who were collected on the third day were about three or four years old.

VOL. II.

which

which this city ever performed; though through length of time, and the deftruction of those by whom it was undertaken, the fame of its execution has not reached the present age. But I befeech you, O Critias, (fay Amynander,) relate this affair from the beginning; and inform me what that event was which Solon afferted as a fact, and on what occasion, and from whom he received it.

There is then (fays he) a certain region of Egypt called Delta, about the fummit of which the ftreams of the Nile are divided. In this place a government is established called Saitical; and the chief city of this region of Delta is Sais, from which also king Amasis derived his origin. The city has a prefiding divinity, whofe name is in the Egyptian tongue Neith, and in the Greek Athena, or Minerva. These men were friends of the Athenians, with whom they declared they were very familiar, through a certain bond of alliance. In this country Solon, on his arrival thither, was, as he himfelf relates, very honourably received. And upon his inquiring about antient affairs of those priests who possessed a knowledge in such particulars superior to others, he perceived, that neither himfelf, nor any one of the Greeks, (as he himfelf declared), had any knowledge of very remote antiquity. Hence, when he once defired to excite them to the relation of antient transactions, he for this purpose began to discourse about those most antient events which formerly happened among us. I mean the traditions concerning the first Phoroneus and Niobe, and after the deluge, of Deucalion and Pyrrha, (as defcribed by the mythologists,) together with their posterity; at the fame time paying a proper attention to the different ages in which thefe events are faid to have fubfifted. But upon this one of those more antient priests exclaimed, O Solon, Solon, you Greeks are always children, nor is there any fuch thing as an aged Grecian among you! But Solon, when he heard this-What (fays he) is the motive of your exclamation? To whom the prieft :- Becaufe all your fouls are juvenile; neither containing any antient opinion derived from remote tradition, nor any discipline hoary from its existence in former periods of time. But the reason of this is the multitude and variety of deftructions of the human race, which formerly have been, and again will be : the greatest of these, indeed, arising from fire and water ; but the leffer from ten thousand other contingencies. For the relation fubfifting among you, that Phaeton, the offspring of the Sun, on a certain time attempting

attempting to drive the chariot of his father, and not being able to keep the track observed by his parent, burnt up the natures belonging to the earth, and perished himfelf, blafted by thunder-is indeed confidered as fabulous, yet is in reality true. For it expresses the mutation of the bodies revolving in the heavens about the earth; and indicates that, through long periods of time, a deftruction of terrestrial natures enfues from the devastations of fire. Hence, those who either dwell on mountains, or in lofty and dry places, perifh more abundantly than those who dwell near rivers, or on the borders of the fea. To us indeed the Nile is both falutary in other refpects, and liberates us from the fear of fuch-like depredations. But when the Gods, purifying the earth by waters, deluge its furface, then the herdfmen and shepherds inhabiting the mountains are preferved, while the inhabitants of your cities are hurried away to the fea by the impetuous inundation of the rivers. On the contrary, in our region, neither then, nor at any other time. did the waters defcending from on high pour with defolation on the plains: but they are naturally impelled upwards from the bofom of the earth. And from these causes the most antient traditions are preferved in our country. For, indeed, it may be truly afferted, that in those places where neither intense cold nor immoderate heat prevails, the race of mankind is always preferved, though fometimes the number of individuals is increased, and fometimes fuffers a confiderable diminution. But whatever has been transacted either by us, or by you, or in any other place, beautiful or great, or containing any thing uncommon, of which we have heard the report, every thing of this kind is to be found defcribed in our temples, and preferved to the prefent day. While, on the contrary, you and other nations commit only recent tranfactions to writing, and to other inventions which fociety has employed for transmitting information to posterity; and fo again, at stated periods of time, a certain celeftial defluxion rufhes on them like a difeafe; from whence those among you who furvive are both deftitute of literary acquifitions and the infpiration of the Mufes. Hence it happens that you become juvenile again, and ignorant of the events which happened in antient times, as well among us as in the regions which you inhabit.

The transfactions, therefore, O Solon, which you relate from your antiquities, differ very little from puerile fables. For, in the first place, you only mention one deluge of the earth, when at the fame time many have hap-

30 2

pened.

pened. And, in the next place, you are ignorant of a most illustrious and excellent race of men, who once inhabited your country; from whence you and your whole city defcended, though a fmall feed only of this admirable people once remained. But your ignorance in this affair is owing to the posterity of this people, who were for many ages deprived of the use of letters, and became as it were dumb. For prior, O Solon, to that mighty deluge which we have just mentioned, a city of Athenians existed, informed according to the beft laws both in military concerns and every other duty of life; and whose illustrious actions and civil institutions are celebrated by us as the most excellent of all that have existed under the ample circumference of the heavens. Solon, therefore, upon hearing this, faid that he was aftonifhed; and, burning with a most ardent defire, entreated the priests to relate accurately all the actions of his antient fellow-citizens. That afterwards one of the priefts replied :-- Nothing of envy, O Solon, prohibits us from complying with your requeft. But for your fake, and that of your city, I will relate the whole; and especially on account of that Goddess who is allotted the guardianship both of your city and ours, and by whom they have been educated and founded : yours, indeed, by a priority to ours of a thoufand years, receiving the feed of your race from Vulcan and the Earth. But the defcription of the transactions of this our city during the space of eight thoufand years, is preferved in our facred writings. I will, therefore, curforily run over the laws and more illustrious actions of those cities which exifted nine thousand years ago. For when we are more at leifure we shall profecute an exact hiftory of every particular, receiving for this purpofe the facred writings themfelves.

In the first place, then, confider the laws of these people, and compare them with ours: for you will find many things which then subfissed in your city, fimilar to such as exist at present. For the priests passed their life feparated from all others. The artificers also exercised their arts in such a manner, that each was engaged in his own employment without being mingled with other artificers. The same method was likewise adopted with shepherds, hunters and husbandmen. The foldiers too, you will find, were feparated from other kind of men; and were commanded by the laws to engage in nothing but warlike affairs. A similar armour too, such as that of shields and darts, was employed by each. These we first used in Assa; the

the Goddefs in those places, as likewise happened to you, first pointing them out to our ufe. You may perceive too from the beginning what great attention was paid by the laws to prudence and modefty; and befides this, to divination and medicine, as fubfervient to the prefervation of health. And from thefe, which are divine goods, the laws, proceeding to the invention of fuch as are merely human, procured all fuch other difciplines as follow from those we have just enumerated. From such a distribution, therefore, and in fuch order, the Goddefs first established and adorned your city, choosing for this purpofe the place in which you were born; as fhe forefaw that, from the excellent temperature of the region, men would arife diffinguished by the most confummate fagacity and wit." For, as the Goddess is a lover both of wildom and war, the fixed on a foil capable of producing men the moft fimilar to herfelf; and rendered it in every refpect adapted for"the habitation of fuch a race. The antient Athenians, therefore, using these laws, and being formed by good inftitutions, in a ftill higher degree than I have mentioned, inhabited this region; furpaffing all men in every virtue, as it becomes those to do who are the progeny and pupils of the Gods.

But"though many and mighty deeds of your city are contained in our facred writings, and are admired as they deferve, yet there is one transaction which furpaffes all of them in magnitude and virtue. For thefe writings relate what prodigious firength your city formerly tamed, when a mighty warlike power, rushing from the Atlantic fea, fpread itself with hostile fury over all Europe and Afia. For at that time the Atlantic fea was navigable. and had an ifland before that mouth which is called by you the Pillars of Hercules. But this ifland was greater than both Libya and all Afia together. and afforded an eafy paffage to other neighbouring iflands; as it was likewife eafy to pass from those islands to all the continent which borders on this Atlantic fea. For the waters which are beheld within the mouth which we just now mentioned, have the form of a bay with a narrow entrance; but the mouth itfelf is a true fea. And laftly, the earth which furrounds it is in every refpect truly denominated the continent. In this Atlantic island a combination of kings was formed, who with mighty and wonderful power fubdued the whole ifland, together with many other iflands and parts of the continent; and, befides this, fubjected to their dominion all Libya, as far as to Egypt ; and Europe, as far as to the Tyrrhene fea. And when

when they were collected in a powerful league, they endeavoured to enflave all our regions and yours, and befides this all those places fituated within the mouth of the Atlantic fea. Then it was, O Solon, that the power of your city was confpicuous to all men for its virtue and strength. For, as its armies furpaffed all others both in magnanimity and military skill, fo with respect to its conteffs, whether it was affifted by the reft of the Greeks, over whom it prefided in warlike affairs, or whether it was deferted by them through the incursions of the enemies, and became fituated in extreme danger, yet still it remained triumphant. In the mean time, those who were not yet enflaved it liberated from danger; and procured the most ample liberty for all those of us who dwell within the Pillars of Hercules. But in fucceeding time prodigious earthquakes and deluges taking place, and bringing with them defolation in the space of one day and night, all that warlike race of Athenians was at once merged under the earth; and the Atlantic island itself. being abforbed in the fea, entirely difappeared. And hence that fea is at prefent innavigable, arifing from the gradually impeding mud which the fubfiding island produced. And this, O Socrates, is the fum of what the elder Critias repeated from the narration of Solon.

But when yesterday you was difcoursing about a republic and its citizens. I was furprifed on recollecting the prefent hiftory: for I perceived how divinely, from a certain fortune, and not wandering from the mark, you collected many things agreeing with the narration of Solon. Yet I was unwilling to difclofe thefe particulars immediately, as, from the great interval of time fince I first received them, my remembrance of them was not fufficiently accurate for the purpose of repetition. I confidered it, therefore, neceffary that I fhould first of all diligently revolve the whole in my mind. And on this account I yesterday immediately complied with your demands : for I perceived that we should not want the ability of prefenting a discourse accommodated to your wifnes, which in things of this kind is of principal importance. In confequence of this, as Hermocrates has informed you, immediately as we departed from hence, by communicating these particulars with my friends here prefent, for the purpofe of refreshing my memory, and afterwards revolving them in my mind by night, I nearly acquired a complete recollection of the affair. And, indeed, according to the proverb, what we learn in childhood abides in the memory with a wonderful ftability. For, 6

For, with refpect to myfelf, for inftance, I am not certain that I could recolleft the whole of yesterday's discourse, yet I should be very much astonished if any thing fhould efcape my remembrance which I had heard in fome paft period of time very diftant from the prefent. Thus, as to the hiftory which I have just now related, I received it from the old man with great pleafure and delight; who on his part very readily complied with my requeft, and frequently gratified me with a repetition. And hence, as the marks of letters deeply burnt in remain indelible, fo all these particulars became firmly established in my memory. In confequence of this, as foon as it was day I repeated the narration to my friends, that together with myfelf they might be better prepared for the purposes of the prefent affociation. But now, with respect to that for which this narration was undertaken, I am prepared, O Socrates, to fpeak not only fummarily, but fo as to descend to the particulars of every thing which I heard. But the citizens and city which you fabricated yesterday as in a fable, we shall transfer to reality; confidering that city which you established as no other than this Athenian city, and the citizens which you conceived as no other than those anceftors of ours defcribed by the Egyptian prieft. And indeed the affair will harmonize in every respect; nor will it be foreign from the purpose to affert that your citizeus are those very people who existed at that time. Hence, distributing the affair in common among us, we will endeavour, according to the utmost of our ability, to accomplish in a becoming manner the employment which you have affigned us. It is requisite, therefore, to confider, O Socrates, whether this difcourfe is reafonable, or whether we fhould lay it afide, and feek after another.

Soc. But what other, O Critias, fhould we receive in preference to this? For your difcourfe, through a certain affinity, is particularly adapted to the prefent facred rites of the Goddefs. And befides this, we fhould confider, as a thing of the greateft moment, that your relation is not a mere fable, but a true hiftory. It is impoffible, therefore, to fay how, and from whence, neglecting your narration, we fhould find another more convenient. Hence it is neceffary to confefs that you have fpoken with good fortune; and it is equally neceffary that I, on account of my difcourfe yefterday, fhould now reft from fpeaking, and be wholly attentive to yours.

CRIT. But now confider, Socrates, the manner of our difpoing the mutual banquet

banquet of difputation. For it feems proper to us that Timæus, who is the moft aftronomical of us all, and is particularly knowing in the nature of the univerfe, fhould fpeak the first; commencing his difcourfe from the generation of the world, and ending in the nature of men. But that I after him, receiving the men which he has mentally produced, but which have been excellently educated by you, and introducing them to you according to the law of Solon, as to proper judges, fhould render them members of this city; as being in reality no other than those Athenians which were defcribed as unknown to us in the report of the facred writings. And that in future we fhall difcourfe concerning them as about citizens and Athenians.

Soc. I feem to behold a copious and fplendid banquet of difputation fet before me. It is, therefore, now your bufinefs, O Timzus, to begin the difcourfe; having first of all, as is highly becoming, invoked the Gods according to law.

TIM. Indeed, Socrates, fince those who participate but the least degree of wisdom, in the beginning of every undertaking, whether small or great, call upon Divinity, it is necessary that we (unless we are in every respect unwife) who are about to speak concerning the universe, whether it is generated or without generation, invoking the Gods and Goddess, should pray that what we affert may be agreeable to their divinities, and that in the enfuing discourse we may be confistent with ourselves. And such is my prayer to the Gods, with reference to myself; but as to what respects the prefent company, it is necessary to pray that you may easily understand, and that I may be able to explain my meaning about the proposed subjects of disputation. In the first place, therefore, as it appears to me, it is necessary to define what that is which is always real being ', but is without generation; and

¹ It is well obferved here by Proclus, that Plato, after the manner of geometricians, affumes, prior to demonstrations, definitions and hypothefes, through which he frames his demonstrations, and previously delivers the principles of the whole of physiology. For, as the principles of mulic are different from those of medicine, and those of arithmetic from those of mechanics, in like manner there are certain principles of the whole of physiology, which Plato now delivers: and these are as follow. True being is that which is apprehended by intelligence in conjunction with reason: that which is generated, is the object of opinion in conjunction with irrational fense: every thing generated is generated from a cause: that which does not subsist that of which the paradigm is eternal being, is neceffarily leautiful: that of which the paradigm is

and what that is which is generated indeed, or confifts in a flate of becoming to be, but which never really is. The former of these indeed is apprehended by intelligence in conjunction with reason, fince it always subsists according to same. But the latter is perceived by opinion in conjunction with irrational fense; fince it subsists in a state of generation and corruption, and never truly is. But whatever is generated is necessarily generated from a certain cause. For it is every way impossible that any thing should be generated without a cause. When, therefore, an artificer, in the fabrication of any work, looks to that which always subsists according to same, and, employing a paradigm of this kind, expresses the idea and power in his work, it is then necessary that the whole of his production should be beautiful. But when he beholds that which is in generation, and uses a generated paradigm, it is alike necessary that his work should be far from beautiful.

I denominate, therefore, this universe *heaven*, or *the world*, or by any other appellation in which it may particularly rejoice. Concerning which, let us in the first place confider that which, in the proposed inquiry about the universe, ought in the very beginning to be investigated; whether it always was, having no principle of generation ¹, or whether it was generated,

is generated, is not beautiful : the univerfe is denominated beaven, or the world. For from thefe principles he produces all that follows. Hence, fays Proclus, he appears to me to fay what eternal is, and what that which is generated is, but not to fay that each of them is. For the geometrician alfo informs us what a point is and what a line is, prior to his demonstrations, but he by no means teaches us that each of these has a subsistence. For how will he act the part of a geometrician, if he difcourfes about the existence of his proper principles ? After the fame manner the phyfiologist fays what eternal being is, for the fake of the future demonstrations, but by no means flows *that* it is; fince in fo doing he would pafs beyond the limits of phyfiology. As, however, Timæus being a Pythagorean differs from other phyfiologifts, and Plato in this dialogue exhibits the higheft feience, hence he afterwards, in a manner perfectly divine, proves that true being has a fubfiftence; but at prefent he employs the definition of what it is, preferving the limits of phyfiology. He appears, indeed, to inveftigate the definition of eternal being, and of that which is generated, that he may difcover the caufes which give completion to the univerfe, viz. form and matter: for that which is generated requires thefe. But he affumes the third hypothesis, that he may difcover the fabricative caufe of the universe; the fourth, becaufe the univerfe was generated according to a paradigmatic caufe; and the fifth concerning the name of the univerfe, that he may inveffigate the participation of the good and the ineffable by the world. ¹ That is denominated generated, fays Proclus (in Tim. p. 85.) which has not the whole of its

effence or energy established in one, fo as to be perfectly immutable. And of this kind are, this yot. 11. 3 P fensible

rated, commencing its generation from a certain caufe. It was generated. For this univerfe is vifible, and has a body. But all fuch things are fenfible. And fenfibles are apprehended by opinion, in conjunction with fenfe. And fuch things appear to have their fubfiftence in becoming to be, and in being generated. But we have before afferted, that whatever is generated is neceffarily generated from fome caufe. To difcover, therefore, the *artificer* and *father* of the univerfe is indeed difficult; and when found it is impoffible to reveal him through the miniftry of difcourfe to all men.

Again: this is to be confidered concerning him, I mean, according to what paradigm extending himfelf, he fabricated the world—whether towards an exemplar, fubfifting according to that which is always the fame, and fimilarly affected, or towards that which is generated. But, indeed, if this world is beautiful, and its artificer good, it is evident that he looked towards an eternal exemplar in its fabrication. But if the world be far from beautiful, which it is not lawful to affert, he neceffarily beheld a generated inftead of an eternal exemplar. But it is perfectly evident that he regarded an

fenfible world, time in things moved, and the transitive intellection of fouls. But that every motion fubfifts according to a part, and that the whole of it is not prefent at once, is evident. And if the effence of the world poffeffes generation, and the perpetuity of it is according to a temporal infinity, it may be inferred, that between things eternally perpetual, and fuch as are generated in a part of time, it is neceffary that nature fhould fubfift which is generated infinitely. It is also requisite that a nature of this kind fhould be generated infinitely in a twofold refpect, viz. either that the whole of it fhould be perpetual through the whole of time, but that the parts fhould fubfift in the parts of time, as is the cafe with the fublunary elements, or that both the whole and the parts of it fhould be co-extended with the perpetuity of all time, as is the cafe with the heavenly bodies. For the perpetuity according to eternity is not the fame with the perpetuity of the whole of time, as neither is the infinitely of eternity and time the fame; becaufe eternity is not the fame with time, the former being infinite life at once total and full, or, the whole of which is ever prefent to itfelf, and the latter being a flowing image of fuch a life.

Further ftill, fays Proclus, the term generated has a multifarious meaning. For it fignifies that which has a temporal beginning, every thing which proceeds from a caufe, that which is effentially a composite, and that which is naturally capable of being generated, though it should not be generated. The term generated, therefore, being multifarious predicated, that which is generated according to time possible of being generated. For it proceeds from a caufe, is a composite, and is naturally capable of being generated. Hence, as that which is generated according to time possible of being generated. Hence, as that which is generated in a part of time begins at one time, and arrives at perfection in another, fo the world, which is generated according to the whole of time, is always beginning, and always perfect. And it has indeed a certain beginning of generation, fo far as it is perfected by its caufe, but has not a certain beginning for ar as it has not a beginning of a certain partial time.

eternal

eternal paradigm. For the world is the moft beautiful of generated natures, and its artificer the beft of caufes. But, being thus generated, it is fabricated according to that which is comprehenfible by reafon and intelligence, and which fubfifts in an abiding famenefs of being. And from hence it is perfectly neceffary that this world fhould be the refemblance of fomething. But to deferibe its origin according to nature is the greateft of all undertakings. In this manner, then, we muft diffinguifh concerning the image and its exemplar. As words are allied to the things of which they are the interpreters, hence it is neceffary, when we fpeak of that which is ftable ' and firm, and intellectually apparent, that our reafons fhould be in like manner ftable and immutable, and as much as poffible irreprehenfible, with every perfection of a fimilar kind. But that, when we fpeak concerning the image of

¹ That which Plato now calls *flable* and *firm*, he before called eternal being, fublifting after the fame manner, and apprehended by intelligence; denominating it *flable* inftead of eternal being, and intellectually apparent, inflicad of that which is apprehended by intelligence. He also fays, that the reasonings about it should be *flable* indeed, that through the famenefs of the appellation he may indicate the fimilitude of them to things themfelves; but *immutable*, that they may fhadow forth the firmnefs of the thing; and *irreprehenfible*, that they may imitate that which is apprehended by intelligence, and may fcientifically accede. For it is neceffary that reafonings, if they are to be adapted to intelligibles, fhould poffefs the accurate and the ftable, as being converfant with things of this kind. For, as the knowledge of things eternal is immutable, fo alfo is the reasoning; fince it is evolved knowledge. However, as it proceeds into multitude, is allotted a composite nature, and on this account falls flort of the union and impartibility of the thing, he calls the former in the fingular number *flable* and firm, and intellectually apparent, but the latter in the plural number fiable, immutable and irreprehensible reafons. And fince in reafon there is a certain fimilitude to its paradigm, and there is alfo a certain diffimilitude, and the latter is more abundant than the former, he employs one appellation in common, the flable; but the other epithets are different. And as, with respect to our knowledge, feientific reasoning cannot be confuted by it, (for there is nothing in us better than feience,) but is confuted by the thing itfelf, as not being able to comprehend its nature fuch as it is, and as it comes into contact with its impartibility, hence he adds, as much as poffible. For feience itfelf confidered as fubfilting in fouls is irreprehenfible, but is reprehended by intellect, becaufe it evolves the impartible, and apprehends the fimple in a composite manner. Since the phantafy also reprehends fense, because its knowledge is attended with paffion according to mixture, from which the phantafy is pure; opinion the phantafy, becaufe it knows in conjunction with type and form, to which opinion is fuperior; feience opinion, becaufe the latter knows without being able to affign the caufe, the ability of effecting which efpecially characterizes the former; and intellect as we have faid feience, becaufe the latter divides the object of knowledge transitively, but the former apprehends every thing at once in conjunction with effence. Intellect, therefore, is alone unconquerable; but fcience and feientific reafoning are vanquifhed by intellect, according to the knowledge of being.

that

that which is immutable, we fhould employ only probable arguments, which have the fame analogy to the former as a refemblance to its exemplar. And, indeed, as effence ' is to generation, fo is truth to faith. You muft not wonder, therefore, O Socrates, fince many things are afferted by many concerning

¹ Plato, fays Proclus, had prior to this made two things the leaders, the intelligible and that which is generated, or paradigm and image, and had affumed two things analogous to thefe, fcience and probability, or truth and faith, truth being to an intelligible paradigm as faith to a generated image; and now he geometrically adds the alternate proportion. For, if as truth is to the intelligible, fo is faith to that which is generated, it will be alternately as truth is to faith, for the intelligible to that which is generated. Plato, therefore, clearly divides reafonings and knowledges with the things known; and Parmenides alfo, though obfcure through his poetry, yet at the fame time fays, that there are twofold knowledges, truth and faith, of twofold things, viz. of beings and non-beings; and the former of thefe knowledges he calls fplendour, as fhining with intellectual light, but he deprives the latter of stable knowledge. The faith, however, which Plato now affumes appears to be different from that of which he fpeaks in the fixth book of his Republic, in the fection of a line; for that is irrational knowledge, whence also it is divided from conjecture, but is arranged according to fenfe. But the prefent faith is rational, though it is mingled with irrational knowledges, employing fenfe and conjecture; and hence it is filled with much of the unftable. For, receiving that a thing is from fenfe or conjecture, it thus affigns the caufes : but these knowledges posses much of the confused and unstable. Hence Socrates in the Phædo very much blames the fenfes, becaufe we neither fee nor hear any thing accurately. How then can knowledge, originating from fenfe, poffefs the accurate and irreprehensible? For those powers that employ science alone collect with accuracy every thing which is the object of their knowledge; but those powers that energize with fense err and fall off from the accurate, through fenfe, and through the unflable nature of the thing known. For what can any one affert of that which is material, fince it is always changing and flowing, and is not naturally adapted to abide for a moment? And with respect to a celestial nature, in confequence of being very remote from us, it is not eafily known, nor fcientifically apprchended; but we must be fatisfied with an approximation to the truth, and with probability in the fpeculation of it. For every thing which is in place requires a refidence there, in order to a perfect knowledge of its nature. But the intelligible is not a thing of this kind, fince it is not to be apprehended by our knowledge in place. For where any one ftops his dianoëtic power, there, in confequence of the intelligible being every where prefent, he comes into contact with truth. And if it is poffible to affert any thing stable concerning a celessial nature, this also is possible, fo far as it partakes of being, and fo far as it is to be apprehended by intelligence. For it is through geometrical demonstrations, which are univerfal, that we are alone able to collect any thing neceffary concerning it; but, fo far as it is fenfible, it is with difficulty apprehended, and with difficulty furveyed.

With refpect to truth, however, Plato, following the theologifts, eftabliftes it as manifold. For one kind of truth is characterized by the nature of *the one*, being the light proceeding from *the* good, which, in the Philebus, he fays, imparts purity, and, in the Republic, union, to intelligibles. Another kind is that which proceeds from intelligibles, which illuminates the intellectual orders, which

cerning the Gods and the generation of the univerfe, if I fhould not be able to produce the most approved and accurate reasons on so difficult a subject. But you ought to rejoice if it shall appear that I do not employ reasons less probable than others: at the same time remembering, that I who discours and that you who are my judges, possible the human nature in common; so that you should be fatisfied if my affertions are but affimilative of the truth.

Soc. You fpeak excellently well, Timæus; and we fhall certainly act in every refpect as you advife. This introduction, indeed, of your difcourfe we wonderfully approve: proceed, therefore, with the fubfequent difputation.

TIM. Let us declare then on what account the compoing artificer conflituted generation and the univerfe. The artificer, indeed, was good; but in that which is good envy never fubfifts about any thing which has being. Hence, as he was entirely void of envy, he was willing to produce all things as much as poffible fimilar to himfelf. If, therefore, any one receives this most principal caufe of generation and the world from wife and prudent men, he will receive him in a manner the most perfect and true. For, as the Divinity was willing that all things fhould be good, and that as much as poffible nothing fhould be evil; hence, receiving every thing visible, and which was not in a ftate of reft, but moving with confusion ' and diforder, he

which an effence unfigured, uncoloured, and untouched first receives, and where alfo the plain of truth is fituated, as it is written in the Phædrus. A third kind of truth is that which is connate with fouls, which comes into contact with being through intelligence, and feience fubfifting in conjunction with the objects of feience : for the light pertaining to the foul is the third from the intelligible; fince the intellectual is filled from the intelligible, and that pertaining to the foul from the intellectual order. This truth, therefore, fubfifting in fouls, must be now affumed, fince we have admitted a corresponding faith, and not that which is irrational, and defitute of all logical confideration; and the one must be conjoined with intelligibles, but the other with fentibles.

⁴ Plato being willing to indicate the providence of the demiurgus pervading the univerfe, together with the gifts of intellect and the prefence of foul, and to flow the magnitude of the good which thefe impart to the world, furveys prior to this the whole corporeal conflictution by itfelf, and how, thus confidered, it is confuded and difordered; that alfo, beholding by itfelf the order proceeding from foul and demiurgic ornament, we may be able to define what a corporeal nature is in itfelf, and what orderly diffribution it is allotted from fabrication. The world, indeed, always had a fubfiftence, but different divides the thing generated from the maker, and produces according to time things which fabfift at once together, becaufe every thing generated is a compofite. he reduced it from this wild inordination into order, confidering that fuch a conduct was by far the beft. For it neither ever was lawful, nor is, for the beft of caufes to produce any other than the moft beautiful of effects. In confequence of a reafoning ¹ procefs, therefore, he found that among the things naturally visible ² there was nothing, the whole of which, if void of intelligence, could ever become more beautiful than the whole of that which is endued with intellect: and at the fame time he difcovered, that it was impossible for intellect to accede to any being, without the intervention of foul. Hence, as the refult of this reafoning, placing intellect in foul and foul in body, he fabricated the univerfe; that thus it might be a work naturally the moft beautiful and the beft. In this manner, therefore, according

pofite. To which we may add, that demiurgic fabrication being twofold, one being corporeal, and the other ornamental, Plato, beginning from the ornamental, very properly reprefents every thing corporeal moved in a confused and difordered manner, because such is its motion from itself when confidered as not yet animated by an intellectual foul.

It also deferves to be noticed that Plato, in giving subsistence to the confused and difordered, prior to the fabrication of the world, imitates the antient theologists. For, as they introduce the battles and feditions of the Titans against the Olympian Gods, so Plato pre-supposes these two, the unadorned, and the fabricator of the world, that the former may be adorned and participate of order. They, however, introduce these theologically; for they oppose the powers that prefide over bodies to the Olympian deities: but Plato philosophically; for he transfers order from the Gods to the fubjects of their government.

¹ The demiurgus of the univerfe, through the plenitude of his power, fabricates different things by different powers; for, fince he comprehends in himfelf the caufe of all fabrications, he after one manner gives fubfiftence to the whole world, and after another to its parts. Hence, by one intelligence he adorns the whole world, and generates it collectively, according to which energy the world alfo is one animal; but by reafoning he produces its parts, and thefe as wholes, becaufe he is the demiurgus of total natures, viz. of total intellect, total foul, and all the bulk of body. In confequence of this, when composing parts, he is fail to fabricate by reafoning. For reafoning here figuifies a diffributive caufe of things; fince it is not the reafoning of one doubting. For neither does art doubt, nor fcience; but artiffs and the fcientific then doubt when they are perfect, can it be fuppofed that intellect doubts, or the fabricator and father of the univerfe?

² That is, intelligibles : for that thefe are visible is evident from the words of Plato further on, where he fays—" W hatever ideas intellect perceived in animal itfelf," &c. But that thefe are *naturally* visible will be evident, as Proclus beautifully observes, if we confider that fome things are visible to us, and others according to nature. And the things, indeed, which are visible to us, are in their own nature dark and observe; but things naturally visible are truly known, and are refp.endent with divine light. And fuch are intelligibles.

to an affimilative reafon, it is neceffary to call the world an animal, endued with intellect, and generated through the providence of Divinity.

This being determined, let us confider what follows; and, in the next place, after the fimilitude of what animals the composing artificer conftituted the world. Indeed, we must by no means think that he fashioned it fimilar to fuch animals as fubfift in the form of a part, or have a partial fubfiftence : for, if it had been affimilated to an imperfect animal, it certainly would not have been beautiful. But we should rather establish it as the most similar of all things to that animal, of which other animals, both confidered feparately and according to their genera, are nothing more than parts. For this, indeed, contains all intelligible animals comprehended in itfelf; just as this world contains us and the other animals which are the objects of fight. For, the Divinity being willing to affimilate this univerfe in the most exquisite degree to that which is the most beautiful and every way perfect of intelligible objects, he composed it one visible animal, containing within itself all such animals as are allied to its nature. Do we therefore rightly conclude that there is but one univerfe; or is it more right to affert that there are many and infinite? But indeed there can be but one, if it be only admitted that it is fabricated according to an exemplar. For that which comprehends all intelligible animals whatever can never be the fecond to any other. For another animal again would be required about thefe two, of which they would be parts; and it would be more proper to affert that the univerfe is affimilated to this comprehending third, rather than to the other two. That the world, therefore, from its being fingular or alone, might be fimilar to allperfect animal-on this account the artificer neither produced two nor infinite worlds; but heaven, or the univerfe, was generated and will be one and only begotten.

But fince it is neceffary that a corporeal nature fhould be vifible and tangible, and fince nothing can be vifible without fire, and nothing tangible without fomething folid, and nothing folid without earth—hence the Divinity, beginning to fabricate, composed the body of the universe from fire and earth. But it is impossible for two things alone to cohere together without the intervention of a third; for a certain collective bond is neceffary in the middle of the two. And that is the most beautiful of bonds which renders both itself and the natures which are bound remarkably one. But the 6

most beautiful analogy naturally produces this effect. For when either in three numbers, or maffes, or powers, as is the middle to the last, fo is the first to the middle; and again, as is the last to the middle, fo is the middle to the first : then the middle becoming both first and last, and the last and the first paffing each of them into a middle polition, they become all of them neceffarily the fame, as to relation to each other. But, being made the fame with each other, all are one. If, then, it were necessary that the universe should be a fuperficies only, and have no depth, one medium would indeed be fufficient, both for the purpose of binding itself and the natures which it contains. But now it is requifite that the world fhould be a folid; and folids are never harmonized together by one, but always with two mediums. Hence, the Divinity placed water and air in the middle of fire and earth, and fabricated them as much as poffible in the fame ratio to each other; fo that fire might be to air as air to water; and that as air is to water fo water might be to earth. And from this conjunction and composition he rendered the world visible and tangible. Hence, from things of this kind, which are four in number, it must be confessed that the body of the universe was generated through analogy, confpiring into friendship with itself from their conjunction, and fo aptly cohering in all its parts, as to be indiffoluble except by its artificer, who bound it in this union and confent.

The composition of the world, therefore, received one whole of each of thefe four natures. For its composing artificer constituted it from all fire, water, air, and earth; leaving no part of any one of thefe, nor any power external to the world. For by a reafoning process he concluded that it would thus be a whole animal, in the higheft degree perfect from perfect parts: that, befides this, it would be one, as nothing would be left from which any other fuch nature might be produced; and laftly, that it would be neither obnoxious to old age nor difeafe. For he perceived that the heat and cold from which bodies are composed, and all fuch things as poffers vigorous powers, when furrounding bodies externally, and acceding to them unfeafonably, diffolve their union, and, introducing difeafes and old age, caufe them to perifh by decay. Hence, through this caufe and this reafoning process, he fabricated the universe one whole, composed from all wholes, perfect, undecaying, and without difeafe. He likewife gave to it a figure becoming and allied to its nature. For to the animal which was defined to comprehend

comprehend all animals in itfelf, that figure must be the most becoming which contains within its ambit all figures of every kind. Hence, he fashioned it of a spherical shape, in which all the radii from the middle are equally distant from the bounding extremities; as this is the most perfect of all figures, and the most similar to himself. For he considered that the similar was infinitely more beautiful than the diffimilar.

Befides this, he accurately polifhed the external circumference of the fpherical world, and rendered it perfectly fmooth ^r. Nor was the addition of eyes ² requifite to the univerfe; for nothing vifible remained external to itfelf.

[•] It is well obferved here by Proclus, that, the whole univerfe being luminous, it is moft lucid according to its external fuperficies, and full of divine fplendour. For through this the poets alfo place Olympus at the extremity of the world, this being entirely luminous and felf-fplendid.

There a white fplendour fpreads its radiance round,

fays Homer. But of this luminous fubfiftence fmoothnefs is a fymbol. Why, therefore, are the extremities of the univerfe fmooth? We reply, That it may be fpontaneoufly conjoined with foul and intellect, and that it may be harmonioufly adapted to fupermundane lights, through its fimilitude to them. Smoothnefs, therefore, is fignificant of extreme aptitude, through which the univerfe is able to receive the illuminations proceeding from intellect and foul; juft as mirrors, by their fmoothnefs, receive the reprefentations of things. Proclus further obferves, that a mirror was affumed by antient theologifts as a fymbol of the aptitude of the univerfe to be filled with intellectual illumination. Hence, fays he, they fay that Vulcan made a mirror for Bacchus, into which the God looking, and beholding the image of himfelf, proceeded into the whole of a divifible fabrication. And you may fay that the fmoothnefs of the external furface of the univerfe, which is now mentioned by Plato, reminds us of the above-mentioned catoptric apparatus. The whole body of the univerfe, therefore, being externally fmooth, becomes connate with its own intellect, and with that of the demiurgus. Hence, poets eftablifh the demiurgus on the lofty fummit of the world, which is allotted from him fuch an aptitude, in order to its participation of intelligible caufes.

² By thefe words, fays Proclus, Plato appears to do nothing elfe than to take away from the univerfe a divifible life, and divifible organs, which being fufpended from us defeend into generation, or the whole of a vifible nature. For, while we remain on high, we are in no want of any one of thefe multiform lives and divifible infiruments; but our lucid vehicle is fufficient, which contains in itfelf unitedly all the fenfes. As, therefore, when we are liberated from generation we are purified from every life of this kind, what ought we to think refpecting the univerfe? Is it not this, that it has one fimple life, to which the whole of it is excited, and that it is equally on all fides prepared to be filled with one life? Or ought we not much more to admit thefe things of the univerfe? For wholes are more divine than parts, and things which comprehend than those which are comprehended.

Plato, however, must not be fupposed in what he now fays to deprive the world of fense; for, acvol. 11. 3 Q cording

itfelf. Nor were ears neceffary; as there was nothing externally audible. Nor was the univerfe invefted with furrounding air, that it might be indigent of refpiration. Nor, again, was it in want of any organ through which it might receive nutriment into itfelf, and difcharge it when concocted: for there was no poffibility that any thing could either accede to or depart from its nature, fince there was nothing through which fuch changes could be produced. For, indeed, the univerfe affords nutriment to itfelf through its own confumption; and, being artificially fabricated, fuffers and acts all things in itfelf, and from its own peculiar operations. For its compoling artificer confidered that it would be much more excellent if fufficient to itfelf, than if indigent of foreign fupplies. But he neither thought that hands ' were neceffary to the world, as there was nothing for it either to receive

cording to him, the world is an animal, and an animal is characterized by fenfe. In order, therefore, to understand what the nature of that fenfe is which the world posseffers, it will be necessary to make the following division. Of fense, therefore, the first and most principal is that which imitates intellect. For every where things which rank as first possess an imitation of things prior to them. Hence, that is conjoined with first natures which has a fensible perception of itself. comprehended in itfelf, not paffing from one thing to another, for this would be divided fenfe, nor proceeding to externals, for this is imperfect, but poffeffing the whole of that which is fenfible in itfelf, and which may be rather called confcioufnefs than fenfe. The next to this is that which proceeds indeed, and does not abide like the former, but yet proceeds according to a perfect energy, and always, on all fides, fimilarly apprehends that which is known; which is likewife purified from all passion, and from all that imbecility which is peculiar to divisible and material organs. The third is that which is paffive to things external, and is mingled from paffion and knowledge; originating, indeed, from paffion, but ending in knowledge. The last fense is that with which a most obscure knowledge is prefent, which is full of passion, and is proximate to physical fympathy, as not knowing the forms of fensibles; as, for instance, that what operates is hot or cold, but that what falls upon it is alone pleafant or painful; for fuch is the fenfe of plants, as Timæus informs us in the courfe of this dialogue, being the apprehension of that which is alone pleafant and painful from things fenfible. Senfe, therefore, thus fupernally proceeding, the world is fenfitive according to the first fenfe. For it is visible, and an eye, according to the whole of itfelf, fince the fun also is called an eye, and each of the flars. The world, therefore, is wholly fight and the thing feen, and is truly to be comprehended by fenfe and opinion. Hence, it contains all-perfect knowledge, indivisible fenfe, and is itself fenfible, the instrument of fenfe, and fenfe; juft as also its artificer is intellect, intelligence, and the intelligible. And as it comprehends partial bodies in its whole body, fo likewife it contains many fenfes in its total fenfe.

⁴ Thefe things, fays Proclus, are by no means in the univerfe, though after another manner it contains both fenfe and motion. For, fince every thing fenfible is comprehended in it, and it
receive or reject; nor yet feet, nor any other members which are fubfervient to progression and reft. For from among the feven species of local motion he felected one, which principally fubfifts about intellect and intelligence, and affigned it to the world as properly allied to its furrounding body. Hence, when he had led it round according to fame, in fame, and in itfelf, he caufed it to move with a circular revolution. But he feparated the other fix motions from the world, and framed it void of their wandering progreffions. Hence, as fuch a conversion was by no means indigent of feet, he generated the universe without legs and feet. When, therefore, that God who is a perpetually reafoning divinity cogitated about the God who was deftined to fubfift at fome certain period of time, he produced his body fmooth and equable; and every way from the middle even and whole, and perfect from the composition of perfect bodies. But, placing foul in the middle of the world, he extended it through the whole; and befides this, he externally invefted the body of the univerfe with foul; and, caufing circle to revolve in a circle, established the world one fingle, folitary nature, able through virtue to converse with itself, indigent of nothing external, and fufficiently known and friendly to itfelf. And on all these accounts he ren-

is itself the first fensible, it has also one fense conjoined with fensible of this kind; just as the intelligence of the deminirgus is conjoined with the whole of the intelligible, in confequence of which he is faid by Orpheus to abforb the universe in himself. After this manner, therefore, the world abforbs itfelf by the fentible perception of itfelf, and comprehends the thing known by a connate knowledge. It also possesses which rule over, and are the guardians of, all things; and thefe are its hands. It likewife poffeffes perfective orders, which are analogous to nutritive parts; and receives vivific caufes which correspond to the members of respiration. Further fill, it also contains other powers, fome of which fill it with unapparent causes, and others connect it with intelligible light. And of these powers, fome are analogous to fight, and others to hearing. With this fenfe it likewife poffeffes an analogous motion; for, as it poffeffes a fenfible perception of itfelf, to alfo it contains motion in itfelf, and a revolving about itfelf; and both thefe according to the fimilitude of its paradigm. For in Phanes, or animal itfelf, there is intelligence verging to itfelf, a life converted to itfelf, and a knowledge not fubfifting according to transition and division, but felf-perfect, and united with intelligibles themselves. For such is the intellect which is there, which in confequence of its being abforbed in fupereffential light may be faid to energize prior to energy; becaufe, according to the Chaldaic oracle, it has not proceeded, but abides in the paternal profundity, and in the adytum, according to a filence which is nourified by Deity.

3Q2

dered

dered the univerfe a happy ' God. But indeed the artificer did not produce foul, as we just now began to fay, junior to body: for he who conjoined thefe would never permit that the more antient nature fhould be fubservient to the younger. But we, as being much conversant with that which casually occurs, affert things of this kind in an affimilative way; while, on the contrary, the artificer of the world constituted foul both in generation and virtue prior to, and more antient than, body, as being the proper lord and ruler of its fervile nature; and that in the following manner:

From an effence impartible ², and always fubfifting according to famenefs

of

The happiness of any being is the proper perfection of that being; and hence, as the perfections of beings differ, fo alfo do their felicities. A felicity, therefore, in the prefent cafe must be affumed, adapted to the universe. For, fince the world is suspended from a paternal intellect and a total fabricative energy, and lives according to those causes, it is happy in a degree confequent to thefe. The world, therefore, living according to the will of the father, and preferving immutably the intellectual good which is thence imparted, is very jufily faid to be happy. But the first form of felicity, fays Proclus, and which is all-perfect, is that of the world. The fecond is that of the mundane Gods, whom Plato in the Phædrus calls happy divinities, following the mighty Jupiter. The third is that which fubfifts in the genera fuperior to our nature, viz. angels, dæmons, and heroes; for the felicity of each of thefe is different. The fourth is that which fubfifts in undefiled fouls, who make blamelefs defcents into mortality, and exhibit an inflexible and untamed life; fuch as were the fouls of Hercules, Pythagoras, Socrates, Plato, &c. The fifth is the felicity of partial fouls; and this is multiform : for a foul the attendant of the moon is not happy after the fame manner as the foul that is fufpended from the folar order; but as the form of life is different, fo alfo the perfection is limited by different measures. And the laft form of felicity is that which is feen in irrational animals.

^a The Orphic writers, fays Proclus, (in Tim. p. 184.) do not predicate the impartible of every intelligible or intellectual order, but, according to them, there is fomething better than this appellation; juft as, with refpect to other names, they do not adapt king and father to all orders. Where, then, fhall we first perceive the indivisible according to Orpheus, that we may thus underfand the divinely intellectual conception of Plato? Orpheus, therefore, establishing one demiurgus of all divided fabrication, who is analogous to the one father that generates total fabrication, produces from him the whole mundane intellectual multitude, the number of fouls, and corporeal compositions. This demiurgus, (viz. Bacchus) therefore, generates all thefe unitedly; but the Gods who are placed about him divide and feparate his fabrications. Orpheus fays, that all the other fabrications of this divinity were feparated into parts by the distributive Gods, but that his heart alone was preferved indivisible by the providence of Minerva. For, as he gave fubfishence to intellects, fouls and bodies, and fouls and bodies receive in themfelves much division and feparation into parts, but intellect remains united and undivided, being all things in one, and comprehending

of being, and from a nature divisible about bodies, he mingled from both a third form of effence, having a middle fubfiftence between the two. And again, between that which is impartible and that which is divifible about bodies, he placed the nature of *fame* and *different*. And taking thefe, now they are three, he mingled them all into one idea. But as the nature of different could not without difficulty be mingled in fame, he harmonized them together by employing force in their conjunction. But after he had mingled thefe two with effence, and had produced one from the three, he again divided this whole into becoming parts; at the fame time mingling each part from fame, different, and effence. But he began to divide as follows :-- In the first place, he received one part from the whole. Then he feparated a fecond part, double of the first ; afterwards a third, fefquialter of the fecond, but triple of the first : then a fourth, double of the fecond ; in the next place a fifth, triple of the third; a fixth, octuple of the first; and lastly a feventh. twenty-feven times more than the first. After this, he filled up the double and triple intervals, again cutting off parts from the whole; and placed them fo between the intervals, that there might be two mediums in every interval;

prehending in one intelligence total intelligibles, —hence he fays, that intellectual effence alone, and an intellectual number, were faved by Minerva. For, fays he,

The intellectual heart alone was faved :

openly denominating it intellectual. If, therefore, the indivisible heart is intellectual, it will evidently be intellect and an intellectual number; not that it will, indeed, be every intellect. but that which is mundane; for this is the indivisible heart, fince the divided God was the fabricator of this. But Orpheus calls intellect the indivisible effence of Bacchus; and denominates his prolific power that life which is diffributed about body, which is phyfical and productive of feeds, and which he fays Diana, who prefides over all the generation in nature, and leads into light physical reafons, fupernally extends as far as to fubterranean natures. All the remaining body of the God is, according to Orpheus, mythologically confidered as the composition pertaining to the foul, and is divided into feven parts. " All the parts into which they divided the boy were feven *," fays the theologift, fpeaking concerning the Titans; just in the fame manner as Timæus divides the foul into feven parts. And, perhaps, when Timæus fays that foul is extended through the whole world, he reminds us of the Orphic Titanic division, through which not only the foul is forcad round the univerfe like a veil, but is also extended through every part of it. With great propriety, therefore, does Plato call that effence impartible which is proximately placed above foul, following the Orphic fables, and wifhing, as it were, to be an interpreter of what is faid in the myfteries.

and

^{*} Έπτα δε παιτα μερη κουςου διεμοιρησαντο φησιν ο Θεολογος περι των Τιταιων.

and that one of thefe might by the fame part exceed one of the extremes, and be exceeded by the other; and that the other part might by an equal number furpafs one of the extremes, and by an equal number be furpaffed by the other. But as from hence fefquialter, fefquitertian, and fefquioctave intervals were produced, from those bonds in the first spaces, he filled with a fefquioctave interval all the fefquitertian parts, at the fame time leaving a part ¹ of each of these. And then again the interval of this part being

⁴ It is well obferved here by Proclus, (in Tim. p. 211.) that from each of the fpheres from which the univerfe confifts there are certain defluxions which extend as far as to the fubterranean regions, and alfo certain dregs mingled together, of the elements themfelves, possibling much of the tumultuous, dark and material, but at the fame time contributing to the whole composition and harmony of the world. Plato (fays he) placing the caufe of this in the foul of the univerfe calls it a remainder (χ_{UUPUR}), a term fignificant of ultimate fubjection.

Proclus further obferves, "that theologifts alfo cftablifh about fubterranean places the powers of the higheft Gods; and that Jupiter himfelf is reprefented by them as adorning those places in order to adapt them to the participation of fuch mighty Gods. That, if this be the cafe, we ought much more to think, concerning the foul of the univerfe, that it adorns every thing which appears to have a difordered fubfiltence, poffeffes the caufe of its existence, and arranges it in a becoming manner according to this cause. For, how can it govern the universe, or conduct all things according to intellect, unlefs it orderly disposes that which is difordered, and co-harmonizes things laft with the one life of the world? If allo the causes of these prefubfit in the demiurgus, as Orpheus fays, what wonder is it that the whole foul which possible all fuch things in a manner adapted to itself, as a divine intellect possible demining call, flortid also comprehend the cause of things laft in the world, and of that which is as it were the fediment of whokes? For foul prior to the apparent and fensible comprehends an unapparent world."

Proclus concludes with obferving, that the whole number of the effential monads in the foul is 105,947^{*}; the foul thus proceeding according to all the orders of numbers. For it proceeds decadically indeed, that it may become the mundane foul; fince the decad is the number of the world: but pentadically, that it may be converted to itfelf; for the pentad is felf-convertive. It alfo proceeds enneadically (or according to the number 9), that it may not only connect the univerfe monadically, but may proceed to the laft of things after departing from the monad : tetradically, as collecting the quadripartite division of things into one, and hebdomadically (or according to the number 7), as converting all things to the monad, to which the hebdomad is alone referred, this number being motherlefs and mafculine. And the whole of this number is indeed in the foul of the world totally, viz. has a total fublificnce; but in divine fouls, as energizing towards the mundane foul, it is contained totally and partially. In dæmoniacal fouls, as energizing yet more partially, it fubfits on the contrary partially and totally; and in human fouls partially and gnofically alone.

* In the original µυριαδες δεκα, χιλιαδες πεντε, ἐκατονταδες τεσσαρες; but from what Proclus immediately after observes, it is evident that inflead of ἐκατονταδες τεσσαρες we should read εννεακινταδες τεσσαρακογτες.

affumed,

486

affumed, a comparison is from thence obtained in terms of number to number, fubfifting between 256 and 243. But now the whole of that mixture from which thefe were feparated was confumed by fuch a fection of parts. Hence he then cut the whole of this composition according to length, and produced two from one; and adapted middle to middle, like the form of the letter X. Afterwards he bent them into a circle, connecting them, both with themfelves and with each other, in fuch a manner that their extremities might be combined in one directly opposite to the point of their mutual interfection; and externally comprehended them in a motion revolving according to famenefs, and in that which is perpetually the fame. And befides this, he made one of the circles external, but the other internal; and denominated the local motion of the exterior circle, the motion of that nature which fubfilts according to famenefs; but that of the interior one. the motion of the nature fubfifting according to difference. He likewife caufed the circle partaking of *famenefs* to revolve laterally towards the right hand; but that which partakes of difference diametrically towards the left. But he conferred dominion on the circulation of that which is fame and fimilar: for he fuffered this alone to remain undivided. But as to the interior circle, when he had divided it fix times, and had produced feven unequal circles, each according to the interval of the double and triple; as each of them are three, he ordered the circles to proceed in a courfe contrary to each other :--- and three of the feven interior circles he commanded to revolve with a fimilar fwiftnefs; but the remaining four with a motion diffimilar to each other, and to the former three; yet fo as not to defert order and proportion in their circulations.

After, therefore, the whole composition of the foul was completed according to the intention of its artificer, in the next place he fabricated within foul the whole of a corporeal nature; and, conciliating middle with middle, he aptly harmonized them together. But foul ' being every way extended

⁴ Soul proceeding fupernally as far as to the laft receffes of the earth, and illuminating all things with the light of life, the world being converted to it, becomes animated from its extremities, and alfo according to its middle, and the whole of its interval. It alfo externally enjoys the intellectual illumination of foul. Hence foul is faid to obtain the middle of the univerfe, as depositing in it its powers, and a fymbol of its proper prefence. It is alfo faid to extend itfelf to the extremities of heaven, as vivifying it on all fides; and to inveft the univerfe as with a veil, as poffeffing powers exempt from divisible bulks.

from

from the middle to the very extremities of the univerfe, and invefing it externally in a circle, at the fame time herfelf revolving ' within herfelf, gave rife to the divine commencement of an unceafing and wife life, through the whole of time. And, indeed, the body of the univerfe was generated vifible; but foul is invifible, participating of a rational energy and harmony ', and fubfifting as the beft of generated natures, through its artificer, who is the beft of intelligible and perpetual beings. Since, therefore, foul was composed from the mixture of the three parts *fame*, *different*, and *effence*, and was diffributed and bound according to analogy, herfelf at the fame time returning by a circular energy towards herfelf; hence, when the touches ' upon any thing endued with a diffipated effence, and when upon that which is indivisible, being moved through the whole of herfelf, the pronounces concerning the nature of each—afferts what that is with which any thing is the fame ', from what it is different, to what it is related, where it is fituated, how

* Plato here evidently evinces, that the convertion of the foul to herfelf is a knowledge of herfelf, of every thing which the contains, and of every thing prior to and proceeding from her. For all knowledge may be faid to be a convertion and adaptation to that which is known; and hence truth is an harmonious conjunction of that which knows with the object of knowledge. Convertion, however, being twofold, one as to *the good*, and the other as to *being*, the vital convertion of all things is directed to *the good*, and the gnottic to *being*.

² Harmony has a threefold fubfiltence; for it is either *barmony itfelf*, i. c. ideal harmony in a divine intellect; or *that which is first barmonized*, and is fuch according to the whole of *itfelf*; or *that which is fecondarily barmonized*, and partly participates of barmony. The first of these must be affigned to intellect, the fecond to foul, and the third to body.

³ Plato calls the gnoftic motions of the foul *touchings*, indicating by this their immediate apprehenfion of the objects of knowledge, and their impartible communion with them. Since, however, one of the circles, viz. the dianoëtic power, knows intelligibles, and the other, i. e. the doxaftic power, fenfibles, what is it which fays that thefe objects are different from each other, and that the one is a paradigm, but the other an image? We reply, that in the fame manner as the common fenfe knows vifibles and audibles, the former through fight, and the latter through hearing, and, in confequence of afferting that thefe are different from each other, muft neceffarily have a knowledge of both,—fo this reafon of which Plato now fpeaks, being different from the two circles, afferts through the whole foul fome things concerning intelligibles, and others concerning fenfibles. For, in as much as the foul is one effence, fhe polieffes this one gnoftic energy, which he calls reafon: and hence we fimply fay that the whole foul is rational. This reafon then is the one knowledge of the foul, which through the circle of famenefs underftands an impartible effence, and through the circle of difference that which is diffipated.

4 The foul of the world, fays Proclus (in Tim. p. 234.) comprehends all fenfibles, together with 9

how it fublifts; and when any thing of this kind happens either to be or to fuffer both in things which are generated and in fuch as poffefs an eternal famenefs of being. Reafon indeed, which is becoming ' to be true according to famenefs, when it is converfant as well with different as fame, evolving itfelf without voice or found in that which is moved by itfelf; when in this cafe it fublifts about a fenfible nature, and the circle characterized by difference properly revolving, enunciates any circumftance to every part of the foul with which it is connected; then ftable and true opinions and belief are produced. But when again it evolves itfelf about that which is logiftic ', and the circle of famenefs aptly revolving announces any particular thing, intellect

every thing which they either do or fuffer. For, fince the univerfe is one animal, it fympathizes with itfelf, fo that all generated natures are parts of the life of the world, as of one drama. Juft as if a tragic poet fhould compole a drama in which Gods make their appearance, and heroes and other perfons fpeak, and fhould permit fuch players as were willing, to utter the heroic fpeeches, or the fpeeches of other characters, he at the fame time comprehending the one caufe of all that is faid. Thus ought we to conceive refpecting the whole foul: that giving fubfiftence to all the life of the world, this life being one and various, and fpeaking like a many-headed animal with all its heads, partly in Greeian and partly in Barbaric language, it comprehends the caufes of all generated natures; knowing particulars by univerfals, accidents by effences, and parts by wholes, but all things fimply by the divinity which it contains. For a God fo far as a God knows things partial, contrary to nature, and in fhort all things, even though you fhould fay matter itfelf. For every thing, whatever it may be, is one, fo far as it proceeds from *the one*. The knowledge, therefore, of all things fimply and directly, is divine.

¹ This reafon is the one power of the effence of the foul, according to which the foul is one, juft as it is twofold according to *the fame* and *different*. This reafon, therefore, being one, knows according to *famenefs*. For it does not at one time know the intelligible, and at another time a fenfible nature, like our reafon, which is unable to energize about both according to the fame. Plato very properly fays of this reafon, that it is *becoming to be* true (axnbes, yuyveevee) about intelligibles and fenfibles, but is not *abfolutely* true like intellect, in confequence of its transitive knowledge according to both thefe. Hence, by afferting that it knows according to *famenefs*, he fignifies the difference between the knowledge of a divine and partial foul; but when he fays that it is *becoming to be* true, he indicates the difference between the knowledge of foul and intellect. You may all for fay, that it is *becoming to be* true, as being transitive in its twofold knowledges; but that it is true *according to the fame*, as always comprehending the whole form of every thing which it knows, and not like our reafon evolving every form, but with refpect to every thing which it fees beholding the whole at once. For we fee every thing according to a part, and the according to famenefs.

* It appears from the comment of Proclus on this part, that we flould read *xoyuorixov*, and not *xoyuor* as in all the printed editions of the Timæus. Proclus alfo well observes, that by *logiflic*, here, we must underfland *the intelligible*; for Plato oppose this to *the fenfible*. He adds, that **YOL. II. 3** R Plato

intellect and fcience are neceffarily produced in perfection by fuch an operation. Whoever, therefore, afferts that this ' is ingenerated in any other nature than foul, afferts every thing rather than the truth.

But when the generating father underftood that this generated refemblance of the eternal Gods ² moved and lived, he was delighted with his work, and in confequence of this delight confidered how he might fabricate it ftill more fimilar to its exemplar. Hence, as that is an eternal animal, he endeavoured to render this univerfe fuch, to the utmost of his ability. The nature indeed of the animal its paradigm is eternal, and this it is impossible to adapt perfectly to a generated effect. Hence he determined by a dianoëtic energy to produce a certain movable image of eternity: and thus, while he was adorning and diffributing the univerfe, he at the fame time formed an

Plato appears to call the intelligible the logiflic, after the fame manner as he afterwards calls the fensible, sensitive, (to auountov, auountikov). For the sensible is motive of fense, and the intelligible of the reafoning of the foul. After this he observes as follows : " By aptly revolving we must underfland the intellectual, the unimpeded in transition, the circular, and the confummation of vigour, perfection in intellections, the energizing about a divine nature, the beneficent, and moving about the intelligible as a centre ;"---"haftening to conjoin yourfelf with the centre of refounding light," fays fome one of the Gods. By intellect Plato here fignifies intellect according to habit. For intellect is threefold: the first, that which is divine, fuch as the demiurgic; the fecond, that which is participated by the foul, but is at the fame time effential and felf-perfect; and the third, that which fubfifts according to habit, and through which the foul is intellectual. Science here fignifies the first knowledge filled from intelligibles, and which has an undeviating and immutable fubfistence. But it differs from intellect, fo far as intellect is beheld in fimple projections alone of the foul; for through this the foul underflands at once the whole of every thing which is the object of intellection. For an energy at once collective is the peculiarity of intellect; but that of fcience confilts in a knowledge from caufe; fince the composition and division of forms conftitute the idiom of feience.

¹ By *tl* is, fays Proclus, we muft underfland *intellect* and *fcience*. Every thing, therefore, which is the recipient of intellect and fcience, of opinion and faith, is foul. For all the knowledges of the foul are rational and transitive. And becaufe they are rational, indeed, they are exempt from irrational powers; but, becaufe they are transitive, they are fubordinate to intellectual knowledge. For, if fcience and intellect are in intelligibles, they are not *ingenerated* in them, as Plato here fays they are in the foul.

^a By the *eternal Gods* here we muft not underftand, as Proclus well obferves, the *mundane Gods*; for Plato does not alone fpeak of the corporeal nature of the univerfe, but alfo difcourfes about it as animated, and an intellectual animal, which comprehends in itfelf the mundane Gods. We muft underfland, therefore, that the world is the refemblance of the intelligible Gods: for it is filled from them with deity, and the progreffions into it of the mundane are as it were certain rivers and illuminations of the intelligible Gods.

eternal

:490

eternal image flowing according to number, of eternity abiding in one; a d which receives from us the appellation of time. But befides this he fabricated the generation of days ^r and nights, and months and years, which had no

¹ What day and night, month and year, are, fays Proclus, and how thefe are faid to be parts of time, but was and will be species, and not parts, requires much discuffion and profound confideration. If then we should fay that day is air illuminated by the fun, in the first place, we thould fpeak of fomething which takes place in day, and not that which day is; for, when we fay that the day is long or fhort, we certainly do not predicate an increase or decrease of the air; and, in the next place, it is difficult to devife how this will be a part of time. But if we fay that day is the temporal interval according to which the fun proceeds from the caft to the weft, we fhall perhaps avoid the former objections, but we shall fall into more impervious difficulties. For whether, furveying this interval itfelf without relation to the fun, we fay that it is day, how does it happen, fince the fame interval is every where according to the fame, that day is not every where ? And if we confider this interval in connection with the folar motion, if it is fimply fo confidered, day will always be in the heavens, and there will be no night; and how is it poffible that a part of time fhould not be every where? for night, day, and month, are here clearly faid to be parts of But if we connect this interval with the circulation of the fun, not fimply, but affert that day is the portion of the fun's courfe from eaft to weft, but night that portion which is produced by his courfe from weft to caft, the heavens will not poffefs those nights and days which are faid to be parts of time; and it is also evident that neither will they poffels months and years. But we affert of time, both confidered according to the whole of itfelf, and every part of its progreffion, that it is prefent to the whole world: for one and the fame now is every where the fame. It is neceffary, therefore, that day and the other parts of time fhould be every where the fame, though they are participated partibly, and with divulfion by fenfible fabrications. Affigning, therefore, to thefe a more principal fubfiltence, conformably to the cuftom of our father *, we must fay, that night and day are demiurgic measures of time, exciting and convolving all the apparent and unapparent life and motion, and orderly distribution of the inerratic fphere : for these are the true parts of time, are prefent after the fame manner to all things, and comprehend the primary caufe of apparent day and night, each of thefe having a different fubfiltence in apparent time; to which alfo Timzus looking reminds us how time was generated together with the world. Hence he fays in the plural number nights and days, as alfo months and years. But thefe are obvious to all men : for the unapparent caufes of thefe have a uniform fubfiftence prior to things multiplied, and which circulate infinitely. Things immovable alfo fubfift prior to fuch as are moved, and intellectual natures are prior to fenfibles. Such, therefore, must be our conceptions of night and day according to their first subfistence.

By month we must underfland that truly divine temporal measure which convolves the lunar fphere, and every termination of the other *i* circulation. But *year* is that which perfects and connects the whole of middle fabrication, according to which the fun is feen pofferfing the

- * Meaning his preceptor Syrianus, as being his true father, the father of his foul.
- + Viz. of the circulation about the zodiac.

3 R 2

greateft

no fubfiftence prior to the univerfe, but which together with it rofe into existence. And all these, indeed, are the proper parts of time. But the terms it was and it will be, which express the species of generated time, are transferred by us to an eternal effence, through oblivion of the truth. For we affert of such an effence that it was, is, and will be; while according to truth the term it is alone accommodated to its nature. But we should affirm, that to have been and to be hereafter are expressions alone accommodated to generation, proceeding according to the flux of time: for these

greateft firength, and meafuring all things in conjunction with time. For neither day nor night, nor month, is without the fun, nor much more year, nor any other mundane nature. I do not here fpeak according to the apparent fabrication of things alone, for the apparent fun is the caufe of thefe meafures, but alfo according to that fabrication which is unapparent. For, afcending higher, we fhall find that the more true * fun meafures all things in conjunction with time, being itfelf in reality time of time, according to the oracle + of the Gods concerning it. For that Plato not only knew thefe apparent parts of time, but alfo thofe divine parts to which thefe are homonymous, is evident from the tenth book of his Laws. For he there afferts that we call hours and months divine, as having the fame divine lives, and divine intellects prefiding over them, as the univerfe. But, if he now fpeaks about the apparent parts of time, it is by no means wonderful; becaufe now his defign is to phyfiologize. Let thefe, therefore, be the parts of time, of which fome are accommodated to the incrratic Gods, or attendants of the Gods, or to mortal animals, or the more fublime or more abject parts of the univerfe.

But Plato fays that was and will be are fpecies and not parts of time, in the fame manner as days and nights, and months and years : for by thefe he reprefents to us those divine orders which give completion to the whole feries of time; and on this account he calls them parts of time. But was and will be are entirely beheld according to each of thefe; and hence they are certain fpecies, not having as it were a peculiar matter; I mean a diurnal or nocturnal matter, or any other of this kind. If then thefe are the species of time which was generated together with the world, there was no generation prior to the world. Neither, therefore, was there any motion : for in every motion there are these species of time, because there are prior and posterior. But, if there was not motion, neither was there inordinate motion. In vain, therefore, do the followers of Atticus fay, that there was time prior to the generation of the world, but not fubfifting in order : for where time is there also there is past and future; and where these are, was and will be must likewife be found. But was and will be are fpecies of time generated by the demiurgus : and hence time was not prior to the fabrication of the world. Proclus after this observes, that was indicates the perfective order of time, but will be the unfolding, in the fame manner as is, the connective order of time. For time unfolds things which yet are not, connects things prefent, and perfects things paft, and introduces a boundary to them adapted to their periods.

* Viz. the fun confidered according to its fubliftence in the fupermundane order of Gods.

6

† Viz. one of the Chaldæan Oracles.

parts

parts of time are certain motions. But that which perpetually fublify the fame and immovable, neither becomes at any time older or younger; neither has been generated in fome period of the paft, nor will be in fome future circulation of time; nor receives any circumftance of being, which generation adapts to natures hurried away by its impetuous whirl. For all thefe are nothing more than fpecies of time imitating eternity, and circularly rolling itfelf according to number. Befides this, we likewife frequently affert that a thing which was generated, IS generated: that what fublifts in BECOMING TO BE, IS in generation; that what WILL BE, IS TO BE; and that NON-BEING IS NOT: no one of which affertions is accurately true. But perhaps a perfect diffufion of thefe matters is not adapted to the prefent difputation.

But time ' was generated together with the univerfe, that being produced together they might together be diffolved, if any diffolution fhould ever happen

¹ Plato, fays Proclus, afferts that time was generated together with the univerfe, animated and endued with intellect, becaufe the world first participates of time according to foul and according to a corporeal nature. But when he fays, " that, being produced together, they may together be diffolved, if any diffolution should ever happen to thefe," he clearly shows that the universe is unbegotten and incorruptible. For, if it was generated, it was generated in time; but, if it was generated together with time, it was not generated in time : for neither is time generated in time, left there fhould be time prior to time. If, therefore, the univerfe was generated together with time, it was not generated *: for it is neceffary that every thing which is generated fhould be pofterior to time; but the univerfe is by no means pofterior to time. Again, if every thing which is diffolved, is diffolved on a certain time, but time cannot be diffolved in a part of itfelf, time can never be diffolved; fo that neither will the univerfe be diffolved, fince it is indiffoluble, as long as time is indiffoluble. Time also is indiffoluble through the fimplicity of its nature, unlefs fome one flould denominate the contrariety which arifes through its proceffion from, and regreffion to, the demiurgus, generation and diffolution : for thus also the universe possession diffolution and generation according to caufe. Juft, therefore, as if fome one, withing to indicate that the circulations of the other nature † are odd in number, fhould fay that the heptad is confubfiltent with them, that if at any time the heptad fhould become an even number, those circulations also may become even, fignifying that the circulations will never be changed into an even number,-after the fame manner muft we conceive respecting the all-various indiffolubility of the world and of time, in confequence of time poffeffing an indiffoluble nature. One caufe, therefore, of time being generated together with the univerfe is, that the univerfe may be indiffoluble

+ Viz. the circulations about the zodiac.

[&]quot; Viz. it was not generated according to the ufual acceptation of the word generated.

happen to thefe. And time was generated according to the exemplar of an eternal nature, that this world might be the moft fimilar poffible to fuch a nature. For its exemplar is permanent being, through the whole of eternity; but the univerfe alone was generated, is, and will be, through the whole of time. After this manner, therefore, and from fuch a dianoëtic energy of Divinity about the generation of time ¹, that he might give birth to its flowing fubfiftence, he generated the fun and moon, and the five other ftars, which are denominated planets, for the purpofe of diftinguifhing and guarding the numbers of time. But the Divinity, as foon as he had produced the bodies of thefe ftars, placed them, being feven in number, in the feven circulations formed by the revolution of the nature diftinguifhed by difference. The moon, indeed, he fixed in the first circulation about the earth; the fun in the fecond above the earth; the ftar called Lucifer ², and that which is facred to Mercury, in circulations revolving with a fwiftnefs equal to the fun, to whom at the fame time they are allotted a contrary power; in confequence

and perpetual; but a fecond caufe is, that it may become moft fimilar to its paradigm. How, therefore, does the univerfe become more fimilar to its paradigm animal itfelf $(au\tau\sigma \zeta au\tau)$ through time? Becaufe, fays Plato, as the intelligibles from which animal itfelf confifts receive all the power of eternity, which is unific, and connective, and fubfilts at once, collectively and unitedly, fo the world receives partibly and divifibly all the meafured motion of time; through which it was, and is, and will be, not posseffing these three in the whole of time, but each in a part of time.

The one monad itfelf of time (fays Proclus) is an all-perfect number; but from this monad there is also in each of the celestial revolutions a proper measure, Saturnian, or Jovian, or Lunar, receiving its peculiarity from the foul and motive deity contained in each of the fpheres. For one number is adapted to the fun, another to a horfe, and another to a plant; but the mundane number is common to all that the world contains. Hence also we fay that the fame time is every where. For the world has one life, in the fame manner as it has one nature, and one intellect. But if it has one life, it has also one temporal measure. And as, with respect to the parts which it contains, each lives according to the nature which fubfifts in the world as a whole, fo alfo it is meafured according to total time; and this is the common meafure of all things. But after this monad there is a triad, of which the fummit is the measure of the first circulation, viz. of the motion of the inerratic fphere; but the middle is the measure of the revolutions of the planets, (for there is one life, one period, and one time, refforing things to their priftine condition, of all the planets as of one animal), and the third is the measure of the circular motion in generation. For through this the mutations of the elements, and the oppofition and regeneration of the things moved, again receive their fubfiftence. But, after this triad, time proceeds according to different numbers, measuring wholes, and bounding all things by appropriate measures.

* Venus.

of

of which, these ftars, the Sun, Lucifer, and Mercury, mutually comprehend and are mutually comprehended by each other in a fimilar manner. But with refpect to the other ¹ ftars, if any one should think proper to investigate their circulations, and through what causes they are established, the labour would be greater than that of the discourse itself, for the sake of which they were introduced. An accurate discussion, therefore, of these particulars may, perhaps, be undertaken by us hereafter, if convenient leisure should fall to our lot.

When, therefore, each of the natures neceffary to a joint fabrication of time had obtained a local motion adapted to its condition, and their bodies became animals through the connecting power of vital bonds, they then learned their preferibed order; that according to the oblique revolution of the circle of *difference*, which moves in fubjection to the circle of *famenefs*, thefe orbs fhould, by their revolution, partly form a more ample and partly a more contracted circle; and that the orb which formed a leffer circle fhould revolve fwifter; but that which produced a greater, more flow:—but that in confequence of the motion of the circle of *famenefs*, the orbs which circu-

¹ By the other flars, fays Proclus, Plato means Mars, Jupiter, and Saturn; and by the word eflablifbed, he fignifies the perpetual and incorruptible fabrication of them. After this Proclus observes, that it is here requisite to call to mind the order of all the mundane spheres, which is as follows :---The inerratic fphere ranks as a monad, being the caufe to all mundane natures of an invariable fubfiftence. But of the triad under this monad, viz. Saturn, Jupiter, Mars, the first is the caufe of connected comprehension, the fecond of fymmetry, and the third of feparation. And again, the moon is a monad, being the caufe of all generation and corruption ; but the triad confifts from the elements * in generation under the moon ; and the planets whole courfe is equal + fubfift between thefe. And the Sun, indeed, unfolds truth into light, Venus beauty, and Mercury the fymmetry of reafons, or the productive principles of nature. Or, you may fay that the Moon is the caufe of nature to mortals, the being the felf-confpicuous image of fontal ‡ nature. But the Sun is the demiurgus of every thing fenfible, fince he is alfo the caufe of feeing and being fcen. Mercury is the caufe of the motions of the phantafy; for the fun gives fubfiftence to the phantaftic effence. Venus is the caufe of the appetites of defire; and Mars of all natural irafcible motions. Jupiter is the common caufe of all vital, and Saturn of all gnoffic powers. For all the irrational forms are divided into thefe, and the caufes of thefe are comprehended in the celeftial fpheres.

- * Viz. from fire, air, and water.
- + Viz. Mercury and Venus fubfift between the triad Saturn, Jupiter, Mars, and the Moon.
- t Viz. of Nature, confidered as fubfitting in its divine caufe Rhea.

late

late most fwiftly, comprehending other orbs as they revolve, fhould themfelves appear to be comprehended by the revolution of the more flow. But all these circles revolve with a spiral motion, because they are agitated at one and the same time in two contrary directions: and in consequence of this, the sphere endued with the flowest revolution is nearess to that to which its course is retrograde, and which is the fwistest of all. And that these circles might posses a certain confpicuous measure of flowness and fwisteness with reference to each other, and that the motion of the eight circulations might be manifest, the Divinity enkindled a light which we now denominate the Sun¹, in the second revolution from the earth; that the heavens might

¹ Plato, fays Proclus, here delivers the one and the leading caufe of apparent time. For, as the demiurgus gives fubfiftence to unapparent, fo the fun to apparent time, which meafures the motion of bodies: for the fun, through 'light, leads into the apparent every temporal interval, bounds all periods, and exhibits the meafures of reflorations to a priftine flate. Very properly, therefore, does Plato call the fun a *confpicuous meafure*, as effecially unfolding the progreffion * of time into the univerfe, according to number. For it has a more accurate period than the five planets, being freed from advancing and receding motions, and alfo revolves more accurately than the moon, in confequence of always bounding its progreffions to the north and fouth, according to the fame fign. But, if it has a more accurate period, it is defervedly faid to be the meafure of meafures, and to know from itfelf the periodic meafures of the other planets, the ratios which they contain, and the fwiftnefs of fome of them compared with others. It alfo imitates in a greater degree than the other planets the permanency of eternity, through perpetually revolving after the fame invariable manner. Such then is its difference with refpect to the planets.

But the fun is after another manner a more confpicuous meafure of the inertatic fphere; fince this fphere alfo has a certain appropriate meafure, and an appropriate interval, and one invariable number of its proper motion. The folar light, however, makes this meafure, and all the evolution of apparent time, confpicuous and known. Hence Plato fays " that these circles might poffefs a certain confpicuous meafure:" for though there is a certain meafure in the other flars, yet it is not confpicuous. But the fun unfolds into light both other intelligibles and time itfelf. You muft not, however, fay, that the folar light was therefore generated for the fake of meafuring; for how is it poffible that wholes can have a fubfiltence for the fake of parts, governing natures for the fake of the governed, and things eternal for the fake of fuch as are corruptible? But we fhould rather fay that light manifess total time, poffessing an unfolding power, and calls forth its fupermundane monad, and one meafure, to a menfuration of the periods of bodies. It is the light of the fun, therefore, which makes every thing that is noved to have a confpicuous meafure. And this, indeed, is its total good. But after wholes it alfo fecondarily benefits parts; for it gives the generation of number and a meafure to fuch things as are fit participants of these.

* In the original περιοδον, but the fenfe requires we should read προοδον.

496

For

might become eminently apparent to all things, and that fuch animals might participate of number as are adapted to its participation, receiving numerical

For irrational natures are deflitute of thefe; but the genera of dæmons follow the periods of the Gods, and men become partakers of number and measure. The communications, therefore, of the fun, fupernally beginning from wholes, defeend as far as to parts, conferring good through light. And if, commencing from things apparent, you are willing to fpeak of things unapparent, the fun illuminates the whole world, makes the corporeal nature of it divine, and the whole of it to be totally filled with life. It also leads fouls through undefiled light, and imparts to them an undefiled and elevating power, and by its rays governs the world. It likewife fills fouls with empyrean fruits. For the order of the fun proceeds fupernally from fupermundane natures; and hence Plato does not here give fubfiltence to its light from a certain place, but fays that the demiurgus enkindled it, as forming this fphere from his own effence, and emitting from the folar fountain a divulfed and nafcent life; which alfo theologifts affert concerning the fupermundane firmaments. On this account, alfo, Plato appears to me to deliver a twofold generation of the fun; one together with the feven governors of the world, when he fashions their bodies and places them in their revolving fpheres; but the other the enkindling of its light, according to which he imparts to it fupermundane power. For it is one thing to generate itfelf by itfelf, the whole bulk of the fun, and another to generate it together with a governing idiom, through which it is called the king of every thing vifible, and is eftablished as analogous to the one fountain of good. For, as the good it/elf, being better than the intelligible, illuminates both intellect and the intelligible, fo the fun, being better than the visible effence, illuminates fight, and whatever is vifible. But if the fun is above the vifible effence, it will have a fupermundane nature : for the world is visible and tangible, and posseffers a body. We must, therefore, furvey the fun in a twofold refpect; as one of the feven mundane governors, and as the leader of wholes, as mundane and as fupermundane, according to which also he illuminates with divine light. For, as the good generates truth, which defies both the intelligible and intellectual orders; as Phanes, according to Orpheus, emits intelligible light, which fills all the intellectual Gods with intelligence; and as Jupiter enkindles an intellectual and demiurgic light in all fupermundanc natures. fo the fun illuminates every thing vifible through this undefiled light. But that which illuminates is always in an order more elevated than the things which are illuminated. For neither is the good intelligible, nor is Phanes intellectual, nor Jupiter fupermundane. From this reafoning, therefore, the fun being fupermundanc emits the fountains of light. And the moft myflic of difcourfes place the *wholenefs* of the fun in the fupermundane order; for there a folar world and total light fubfift, as the oracles of the Chaldwans fay, and as I am perfuaded. And thus much concerning thefe particulars.

Proclus afterwards, near the end of his commentary on this part, obferves, that if by the heavens here we underftand that which is moved in a circle, the fun does not illuminate the whole of this: for there are fliadows there, through the obfcurations of the flars and the moon. But nothing in the world is pure from fludow, (as neither is there any thing mundane pure from matter, fupermundane natures alone being without fhadow and immaterial,) except VOL. H.

3 S

numerical information from the revolution of a nature fimilar and the fame. From hence, therefore, night and day arofe; and through these revolving bodies the period of one most wife circulation was produced.

And month indeed was generated, when the moon having run through her circle paffed into conjunction with the fun. But year, when the fun had completely wandered round his orb. As to the periods of the other ftars, they are not underftood except by a very few of mankind; nor do the multitude diffinguish them by any peculiar appellation; nor do they measure them with relation to each other, regarding the numbers adapted to this purpose. Hence, it may be faid, they are ignorant that the wanderings of thefe bodies are in reality time; as thefe wanderings are endued with an infinite multitude, and an admirable variety of motions. But it is eafy to conceive, that a perfect number of time will then accomplish a perfect year, when the eight circulations concurring in their courfes with each other become bounded by the fame extremity; being at the fame time meafured by the circle fubfifting according to famenefs. But the ftars, whofe revolutions are attended with a proceffion through the heavens, were generated, that the whole of this visible animal the universe might become most fimilar to the most perfect intelligible animal from an imitation of a perpetual nature.

the fun. Hence, the fun is truly fhadowlefs and without generation, every thing elfe receiving at different times different illuminative additions. Why, then, fome one may fay, was not the light of the fun enkindled in the first of the periods from the earth? Becaufe, I reply, the effulgence of the fun is of itfelf incommenfurate with generation; but the moon, existing as a medium, and first receiving his light, renders it more commenfurate with generation. For, as Aristotle fays, the moon is, as it were, a leffer fun. And it is requisite that what is proximately above generation should not be the most fplendid and luminous. For it is not lawful that a thing of this kind should approach to that which is dark; but what is proximate to the darkness of generation must neceffarily be luminous in a fecondary degree, always possible, indeed, its proper light, but evincing a mutation in its participation of a more excellent light. It is likewise requisite that it should exhibit this mutation in an orderly manner, that through this mutation it may be the paradigm of that very mutable nature which matter introduces to generated things.

But that the flars, and all heaven, receive light from the fun, may be eafily perceived. For that which is common in many things derives its fubfiftence from one caufe, which is either exempt or coordinate; and the coordinate caufe is that which first participates of that form. But that first participates in which this form especially fubfists the first. If, therefore, light especially fubfists in the fun, the fun will be the first light, and from this the light in other things will be derived.

And indeed the artificer fabricated other forms, as far as to the generation of time, according to the fimilitude of the world's exemplar.

But as the universe did not yet contain all animals in its capacious receptacle, in this respect it was diffimilar to its exemplar. Its artificer, therefore, fupplied this defect by impreffing it with forms, according to the nature of its paradigm. Whatever ideas, therefore, intellect perceived by the dianoëtic energy in animal itfelf, fuch and fo many he conceived it neceffary for the universe to contain. But these ideas are four: One, the celestial genus of Gods; another, winged and air-wandering; a third, the aquatic form; and a fourth, that which is pedeftrial and terrene. The idea, therefore, of that which is divine, or the inerratic fphere, he for the most part fabricated from fire, that it might be most fplendid and beautiful to behold. And as he meant to affimilate it to the universe, he rendered it circular; placed it in the wifdom of the beft nature; ordered it to become the attendant of that which is beft; and gave it a circular diffribution about the heavens, that it might be a true world, adorned with a fair variety in its every part. But he adapted to each of the divine bodies two motions; one by which they might revolve in fame according to fame, by always cogitating the fame things in themfelves about *fame*; the other through which they might be led with an advancing motion from the dominion of the fame and *fimilar* circulation. 'He likewife rendered them immovable and ftable as to the other five motions, that each of them might become in an eminent degree the beft. And on this account fuch of the ftars as are inerratic were generated, which are divine animals; and, in confequence of this, always abide revolving in that which is *fame*. But, the ftars, which both revolve and at the fame time wander in the manner we have defcribed above, were produced next to thefe. But he fabricated the earth the common nourifher of our existence; which being conglobed about the pole extended through the universe, is the guardian and artificer of night and day, and is the first and most antient of the Gods which are generated within the heavens. But the harmonious progressions of these divinities, their concursions with each other, the revolutions and advancing motions of their circles, how they are fituated with relation to each other in their conjunctions and oppofitions, whether direct among themfelves or retrograde, at what times and in what manner they become concealed, and, again emerging to our view, 352 caufe

caufe terror, and exhibit tokens of future events to fuch as are able to difcover their fignification—of all this to attempt an explanation, without infpecting the refemblances of thefe divinities, would be a fruitlefs employment. But of this enough; and let this be the end of our difcourfe concerning the nature of the vifible and generated Gods.

But to fpeak concerning the other dæmons ', and to know their generation, is a talk beyond our ability to perform. It is, therefore, necessfary in this cafe

¹ Plato here calls the fublunary Gods who proximately prefide over, and orderly diffribute, the realms of generation, dæmons; for a God who proximately prefides over any thing is a dæmon according to analogy.

Proclus, in fpeaking concerning dæmons who fill up all the middle fpace between Gods and men, observes as follows :----- "There is a triad which conjoins our fouls with the Gods, proceeding analogous to the three * primary caufes of things, though Plato is accuftomed to call the whole of it damoniacal. For the angelic preferves an analogy to the intelligible, which first unfolds itself into light from the arcane and occult fountain of things; on which account it also unfolds the Gods, and announces their occult nature. The dæmoniacal is analogous to infinite life; and hence it proceeds every where according to many orders, and poffeffes various fpecies and a multitude of forms. But the heroic fubfifts according to intellect and a convertive energy; and hence it is the infpective guardian of purification, and a magnificently operating life. Again, the angelic proceeds according to the intellectual life of the demiurgus; and hence it alfo is effentially intellectual, and interprets and transmits a divine intellect to fecondary natures. The dæmoniacal governs according to the demiurgic providence and nature of wholes, and rightly gives completion to the order of all the world. But the heroic fubfifts according to a providence convertive of all thefe. Hence this genus is fublime, clevates fouls on high, and is the caufe of the grand and robuft. And fuch are the triple genera which are fufpended from the Gods, viz. from the celeftial Divinities, and from the infpective guardians of generation. For about each of thefe Gods there is an appropriate number of angels, dæmons, and heroes: for each is the leader of a multitude which receives the form of its ruling Deity. And on this account the angels, damons, and heroes of the celeftial Gods are celeftial; of the Gods that prefide over generation, they are generative; of those that elevate fouls on high, they are anagogic; of those that are immutable, they are immutable; and fo on. And again, in those Gods of an anagogic characteristic, the angels, dæmons, and heroes of the Saturnian Gods are faturnine, but those of the Solar Gods are folar. And in those that are vivific, the attendants of the Lunar Deities are lunar, and of the Mercurial Gods, mercurial: for they derive their appellations from the Deities from which they are fulpended, as being continuous with them, and receiving one idea with remiffion. And why is this wonderful, fince partial touls alfo, knowing their prefiding and leading Gods, call themfelves by their names? Or, whence did the Æfculapiuses, the Bacchuses, and the Diofcuri

* Viz. Being, life, and intelled, which confidered according to their first subfiltence form the intelligible triad, or the first procession from the ineffable principle of things. See the Parmenides.

receive

cafe to believe in antient men; who being the progeny of the Gods, as they themfelves affert, muft have a clear knowledge of their parents. It is impoffible, therefore, not to believe in the children of the Gods, though they fhould fpeak without probable and neceffary arguments: but as they declare that their narrations are about affairs to which they are naturally allied, it is proper that, complying with the law, we fhould affent to their tradition. In this manner, then, according to them, the generation of these Gods is to be deferibed:

That Ocean and Tethys were the progeny of heaven and earth. That from hence Phorcys, Saturn, and Rhea, and fuch as fubfift together with thefe, were produced. That from Saturn and Rhea, Jupiter, Juno, and all fuch as we know are called the brethren of thefe defcended. And laftly, others which are reported to be the progeny of thefe. When, therefore, all fuch Gods as vifibly revolve, and all fuch as become apparent when they pleafe, were generated, the Artificer of the universe thus addreffed them : "Gods of Gods¹, of whom I am the demiurgus and father, whatever is generated by

receive their appellations? As, therefore, in the celeftial Gods, fo alfo in those that prefide over generation, it is requisite to furvey about each of them a coordinate, angelic, dæmoniacal, and heroic multitude; the number fufpended from each bearing the name of its monad, fo that there is a celeftial God, dæmon, and hero. With respect to Earth, alfo, Ocean, and Tethys, it is requisite to confider that these proceed into all orders, and in a fimilar manner other Gods. For there is a Jovian, Junonian, and Satornian multitude, which is denominated through the fame name of life. Nor is there any thing abfurd in this, fince we call man both intelligible and fenfible, though the reftoration to their priftine condition is in these more abundant. And thus much in common concerning the generation-producing Gods and dæmons, that, conjoined with the Gods, we may alfo furvey the difcourfe about dæmons: for Plato comprehends each of the genera in the fame names. And he feems to call the fame powers both dæmons and Gods on this account, that we may understand that the dæmoniacal genus is fulpended at the fame time together with thefe Gods, and that we may alfo adapt the names as to Gods. This he alfo does in other places, indicating the every way extended nature of the theory, and the eye of feience furveying all things together and in connection.''

¹ The fcope of this fpeech, fays Proclus, is, as we have faid, to infert demiurgic power and providence in the mundane genera of Gods, to lead them forth to the generation of the remaining kinds of animals, and to place them over mortals, analogoufly to the father of wholes over the one orderly diffribution of the univerfe. For it is neceffary that fome things fhould be primarily generated by the demiurgic monad, and others through other media; the demiurgus, indeed, producing all things from himfelf, at once and eternally, but the things produced in order, and firft proceeding by me is indiffoluble, fuch being my will in its fabrication. Indeed every thing which is bound is diffoluble; but to be willing to diffolve that which is

proceeding from him, producing, together with him, the natures posterior to themfelves. Thus, for inftance, the celeftial produce fublunary Gods, and thefe generate mortal animals; the demiurgus at the fame time fabricating thefe in conjunction with the celeftial and fublunary Divinities. For in speaking he understands all things, and by understanding all things he also makes the mortal genera of animals; thefe requiring another proximate generating caufe, fo far as they are mortal, and through this receiving a progreffion into being. But the character of the words is enthufiaftic. fhining with intellectual intuitions, pure and venerable as being perfected by the father of the Gods, differing from and transcending human conceptions, delicate, and at the fame time terrific, full of grace and beauty-at once concife and perfectly accurate. Plato, therefore, particularly studies these things in the imitations of divine speeches; as he also evinces in the Republic, when he reprefents the Mufes speaking sublimely, and the prophet ascending to a lofty feat. He also adorns both these speeches with conciseness and venerableness, employing the accurate powers of colons, directly fhadowing forth divine intellections through fuch a form of words. But in the words before us he omits no transcendency either of the grand and robuft in the fentences and the names adapted to thefe devices, or of magnitude in the conceptions and the figures which give completion to this idea. Befides this, alfo, much diffinction and purity, the unfolding of truth, and the illustrious prerogatives of beauty, are mingled with the idea of magnitude, this being effectially adapted to the fubject things, to the focaker, and to the hearers. For the objects of this fpecch are, the perfection of the universe, an affimilation to all-perfect animal, and the generation of all mortal animals; the maker of all things at the fame time prefubfilling and adorning all things, through exempt transcendency, but the fecondary fabricators adding what was wanting to the formation of the univerfe. All, therefore, being great and divine, as well the perfons as the things, and fhining with beauty and a diffinction from each other, Plato has employed words adapted to the form of the fpeech.

Homer alfo, when energizing enthuliaftically, reprefents Jupiter speaking, converting to himfelf the twofold coordinations of Gods, becoming himself, as it were, the centre of all the divine genera in the world, and making all things obedient to his intellection. But at one time he conjoins the multitude of Gods with himself without a medium, and at another through Themis as the medium.

> But Jove to Themis gives command to call The Gods to council.

This Goddels pervading every where collects the divine number, and converts it to the demiurgic monad. For the Gods are both feparate from mundane affairs, and eternally provide for all things, being at the fame time exempt from them through the higheft transcendency, and extending their providence every where. For their unmingled nature is not without providential energy, nor is their providence mingled with matter. Through transcendency of power they are not filled with the fubjects of their government, and, through beneficent will, they make all things fimilar to themfelves; in permanently abiding, proceeding, and in being feparated from all things, being is beautifully harmonized, and well composed, is the property of an evil nature. Hence, fo far as you are generated, you are not immortal, nor in every

being fimilarly prefent to all things. Since, therefore, the Gods that govern the world, and the dæmons the attendants of thefe, receive after this manner unmingled purity and providential administration from their father; at one time he converts them to himfelf without a medium, and illuminates them with a feparate, unmingled, and pure form of life. Whence also I think he orders them to be feparated from all things, to remain exempt in Olympus, and neither convert themselves to Greeks nor Barbarians; which is just the same as to fay, that they must transcend the twofold orders of mundane natures, and abide immutably in undefiled intellection. But at another time he converts them to a providential attention to fecondary natures, through Themis, and calls upon them to direct the mundane battle, and excites different Gods to different works. These Divinities, therefore, especially require the affistance of Themis, who contains in herfelf the divine laws according to which providence is intimately connected with wholes. Homer, therefore, divinely delivers twofold fpeeches, accompanying the twofold energies of Jupiter; but Plato through this one fpeech comprehends those twofold modes of discourse. For the demiurgus renders the Gods unmingled with fecondary natures, and caufes them to provide for, and give existence to, mortals. But he orders them to fabricate in imitation of himfelf: and in an injunction of this kind both thefe are comprehended, viz. the unmingled through the imitation of the father, for he is feparate, being exempt from mundane wholes; but providential energy, through the command to fabricate, nourifh and increase mortal natures. Or rather, we may furvey both in each; for in imitating the demiurgus they provide for fecondary natures, as he does for the immortals; and in fabricating they are feparate from the things fabricated. For every demiurgic caufe is exempt from the things generated by it; but that which is mingled with and filled from them is imbecil and inefficacious, and is unable to adorn and fabricate them. And thus much in common refpecting the whole of the fpeech.

Let us then, in the first place, confider what we are to understand by "Gods of Gods," and what power it poffeffes: for that this invocation is collective and convertive of multitude to its monad, that it calls upwards the natures which have proceeded to the one fabricator of them, and inferts a boundary and divine measure in them, is clear to those who are not entirely unacquainted with fuch-like difcourfes. But how those that are allotted the world by their father are called Gods of Gods, and according to what conception, cannot eafily be indicated to the many; for there is an unfolding of one divine intelligence in these names. Proclus then proceeds to relate the explanations given by others of thefe words; which having rejected as erroneous, he very properly, in my opinion, adopts the following, which is that of his preceptor, the great Syrianus. All the mundane Gods are not fimply Gods, but they are wholly Gods which participate: for there is in them that which is feparate, unapparent, and fupermundane, and alfo that which is the apparent image of them, and has an orderly eftablishment in the world. And that, indeed, which is unapparent in them is primarily a God, this being undifiributed and one; but this vehicle which is fufpended from their unapparent effence is fecondarily a God. For if, with respect to us, man is twofold, one inward, according to the foul, the other apparent, which we fee, much more must both these be afferted of the Gods; fince Divinity also is twofold, one 6 unapparent

every refpect indiffoluble : yet you shall never be diffolved, nor become fubject to the fatality of death; my will being a much greater and more excellent bond than the vital connectives with which you were bound at the commencement of your generation. Learn, therefore, what I now fay to you indicating my defire. Three genera of mortals yet remain to be produced. Without the generation of thefe, therefore, the univerfe will be imperfect; for it will not contain every kind of animal in its fpacious extent. But it ought to contain them, that it may become fufficiently perfect. Yet if thefe are generated, and participate of life through me, they will become equal to the Gods. That mortal natures, therefore, may fubfift, and that the univerfe may be truly all, convert yourfelves, according to your nature, to the fabrication of animals, imitating the power which I employed in your generation. And whatever among these is of fuch a nature as to deferve the fame appellation with immortals, which obtains fovereignty in thefe, and willingly purfues juffice, and reverences you-of this I myfelf will deliver the feed and beginning : it is your bufinefs to accomplifh the reft ; to weave " together

unapparent and the other apparent. This being the cafe, we muft fay that "Gods of Gods" is addreffed to all the mundane Divinities, in whom there is a connection of unapparent with apparent Gods; for they are Gods that participate. In fhort, fince twofold orders are produced by the demiurgus, fome being fupermundane and others mundane, and fome being without and others with participation,—if the demiurgus now addreffed the fupermundane orders, he would have alone faid to them, "Gods:" for they are without participation, are feparate and unapparent :—but fince the fpeech is to the mundane Gods, he calls them Gods of Gods, as being participated by other apparent Divinities. In thefe alfo dæmons are comprehended; for they alfo are Gods, as to their order with refpect to the Gods, whofe idiom they indivifibly participate. Thus alfo Plato, in the Phædrus, when he calls the twelve Gods the leaders of dæmons, at the fame time denominates all the attendants of the Divinities Gods, adding, 'and this is the life of the Gods.' All thefe, therefore, are Gods of Gods, as poffeffing the apparent connected with the unapparent, and the mundane with the fupermundane.

¹ It is well obferved here by Proclus, that the animal fpirit ($\tau_0 \pi revea$) comprehends the fummits of the irrational life, which fummits fubfift eternally with the vehicle of the foul, as being produced by the demiurgus; but that thefe, being extended and diffributed, make this life which the junior Gods weave together, being indeed mortal, becaufe the foul muft neceffarily lay afide this diffribution, when, being reflored to her priftine flate, fhe obtains purification, but fubfifting for a much longer time than the life of this body; and that, on this account, the foul alfo in Hades choofes a life of this kind. For, in confequence of verging to a corporeal nature, fhe receives this mortal life from the junior Gods. If thefe things then be admitted, the demiurgus gives

together the mortal and immortal nature; by this means fabricating and generating animals, caufing them to increase by fupplying them with aliment, and receiving them back again when diffolved by corruption."

Thus fpoke the demiurgus; and again into the fame crater ', in which mingling he had tempered the foul of the universe, he poured mingling the remainder ' of the former mixture: in a certain respect indeed after the fame

gives fubfiftence to the fummit of the irrational life, but does not produce this life; fince, giving fubfiftence to dæmons, he certainly alfo produces the irrational life which they contain, but not this life which the junior Gods weave together in us; for this is alone adapted to fouls falling into generation. The mundane Gods, therefore, illuminate their depending vehicles with rational lives; for they poffels intellectual fouls. But those dæmons who are properly defined according to reafon use irrational powers, which they keep in subjection; but our fouls much more possible a life in the vehicle, which is irrational with relation to them. It fuperabounds however by receiving another irrational life, which is an apoftacy from that life in the vehicle which was woven by the junior Gods. All that is immortal, therefore, which fouls poffefs according to an imitation of wholes, but the addition of the fecondary life is mortal. If, therefore, in the fummit of the irrational life, there is one impaffive fenfe, this in the pneumatic vehicle will generate one paffive fenfe; and this latter will produce in the fhelly body many and paffive fenfes. The orectic or appetitive power, alfo, in this fummit, will produce many orectic powers in the fpirit, poffeffing fomething feparate from the flelly body, and capable of being difciplined; and thefe will produce in the body ultimate and material appetitive powers.

¹ Viz. the vivific Goddefs Juno.

² It is well observed here by Proclus, that fouls posses effectial differences, and not differences according to energies only. For, fays he, fome fouls look to total and others to partial intellects: and fome employ undefiled intellections, but others at times depart from the contemplation of true beings. Some perpetually fabricate and adorn wholes, but others only fometimes revolve with the Gods. And fome always move and govern fate, but others fometimes fubfift under the dominion of fate, and are fubject to its laws. Some are the leaders to intelligible effence, and others are fometimes allotted the order of those that follow. Some are divine only, and others are transferred into a different order, dæmoniacal, heroical, human. Some employ horfes that are good, but others fuch as are mingled from good and evil. And fome poffefs that life alone which they received from the one fabrication of things, but others the mortal form of life, which was woven to their nature by the junior Gods. Some energize according to all their powers, but others at different times draw forth different lives. By no means, therefore, do our fouls poffefs the fame effence with divinity : for the rational nature is different in the two, being in the Gods intellectual. but in our fouls mingled with the irrational; and in the middle genera it is defined according to their middle fubfiftence. In like manner, with refpect to every thing elfe, fuch as reafons, the form of life, intelligence and time, thefe fubfift divinely in divine fouls, but in a human manner in ours.

Proclus also further observes, that the common definition of all fouls is as follows: Soul is an effence fublishing between true effence and generation, being mingled from middle genera, divided vol. 11. 3 T into fame manner', yet not fimilarly incorruptible according to the fame, but deficient from the first in a fecond and third degree. And having thus composed

into effential number, bound with all media, diatonically harmonized, living one and a twofold life, and being gnoftic in one and a twofold manner.

" Timæus, fays Proclus, by thefe words indicates the fimilitude, fubjection and different progreffion of partial to total fouls. For he not only deferibes their difference together with their alliance, according to first and fecond demiurgic energy, nor alone according to their union with and feparation from the crater of life, nor yet alone according to excels or defect of genera, but alfo according to the mode of mixture, which is the fame, and yet not the fame. For neither is the temperament of the genera finitiar, nor the unmingling of difference; fince this is more abundant in partial fouls. Hence, of the horfes in thefe, one is good, but the other contrary, and confilting from contraries, as it is faid in the Phædrus, in confequence of difference having dominion. For the whole mixture is no longer incorruptible, according to the fame, and after the fame manner, but in a fecond and third degree; fince in thefe there are fubjection and order. But by incorruptible, here, we must understand the immutable, the undeviating, the inflexible, the immaculate form of effence, that which is not converted to fecondary natures, and which does not receive mutation, or fubjection of life, that which is established beyond the reach of mortality. and that which is exempt from the laws of fate: for thefe things are common to every genus of fouls which perpetually transcend generation. But the contraries of these are adapted to powerswhich defcend into generation, viz. a mutation of life from intelligence to action, the becoming fometimes fubject to fate, and the being mingled with mortal affairs. Neither is the immovable prefent with thefe according to the fame, fince they fometimes proceed into generation, nor, when it is prefent, is it prefent after the fame manner: for that which always underflands is better than that which fometimes departs from its proper intellection. Since, however, in these fouls alfothere is an order, and fome are undefiled, rarely affociating with generation and deferting their own order, but others are rolled in all-various flowers, and wander myriads of periods,-hence-Timzeus indicates the difference of thefe, when he fays "in a fecond and third degree." For fouls which defcend, and become defiled with evil, are very much feparated from those that perpetually abide on high, and are free from evil; but fouls of a middle order are fuch as defcendi indeed, but are not defiled. For, vice verfa, it is not lawful to be defiled, and yet abide on high ;; fince evil is not in the Gods, but in the mortal place, and in material things.

Again, therefore, from thefe things it appears that the first genus of fouls is divine; for every where that which is the recipient of deity has a leading order, in effences, in intellects, in fouls and in bodies. But the fecond genus is that which is perpetually conjoined with the Gods, that, through this, fouls which fometimes depart from may again be recalled to the Gods. The thirds genus is that which falls into generation, but defeends with purity, and changes a fubordinate for a more divine life, but is exempt from vice and paffions; for this genus is continuous withfouls that perpetually abide on high, and are perpetually undefiled. But the fourth and laft genus is that which abundantly wanders, which defeends as far as to Tartarus, and is again excited from its dark profundities, evolving all-various forms of life, employing various manners, and at different times different paffions. It alfo obtains various forms of animals, damoniacal, human, irrational, but

pofed the universe, he distributed souls equal in number to the stars, inferting each in each: and causing them to ascend as into a vehicle ¹, he pointed out

but is at the fame time corrected by Juffice, returns from earth to heaven, and is circularly led from matter to intellect, according to certain orderly periods of wholes. By the words, therefore, "in a certain refpect indeed after the fame manner, yet not fimilarly incorruptible according to the fame," he fignifics that partial fouls are in a certain refpect incorruptible, as for inflance, according to their effence alone, but that in a certain refpect they are not incorruptible, viz. being mingled in their energies with all-various definies, and converfant with mortal things, and not poficifing thefe energies with invariable famenefs, and entire, but fometimes more, and at others lefs, an all-various inequality fubfifting in fouls, according to their habitude to mortal natures, from which they derive the privation of incorruptibility according to life.

¹ Vulcan, who is the artificer of the whole of a corporeal effence, gives fubliftence to the vehicles of the foul; for he receives fouls fent into the world from the intelligible region, and gives different habitations to different fouls. The demiurgus of all things alfo gives fubfiftence to thefe vehicles; for he is the fabricator of animals, and the completions of the univerfe, fo that he not only produces fouls, but also produces them with their proper vehicles. As Proclus likewife well obferves, the conception of Plato here is truly wonderful: for he does not reprefent the demiurgus as fashioning thefe vehicles from the wholeneffes which are now produced, but he fays that he makes thefe, the junior Gods lending parts, and from them composing bodies. But this is an evident argument, that each of these vehicles is in a certain respect felf-composed, and not fabricated by an ablation from other things, left it fhould require to be again poured back into fomething elfe. For every thing which fubfifts by an abfeiffion from other things, being cut off with a diminution of the whole to which it belonged, muft neceffarily be returned to the whole from which it was cut off. For it is neceffary that every whole in the universe should perpetually remain a whole: and hence every fuch vehicle is perpetual, and the fame vehicle is always fufpended from the foul. Befides, how can the foul be any longer faid to be mundane, if its vehicle is corrupted ? for that of which there is nothing in the universe cannot be mundane. For, if partial fouls are fuperior to a life in conjunction with vehicles, they will also be fuperior to divine fouls: but if they are inferior to fuch a life, how does the demiurgus immediately after their generation introduce them into thefe vehicles? And how can they ufe them in Hades, and in the Heavens, unlefs they had them perpetually folpended from their effence? For, that they use them in Hades, is evident from what Socrates fays in the Phædo, viz, that fouls afcending into their vehicles proceed to Acheron : and that they also use them in the Heavens, is evident from the Phadrus, in which Socrates fays that the vehicles of the Gods proceed equally balanced, but those of the attendants of the Gods, with great difficulty.

From this, alfo, we may perceive the difference between partial and divine fouls: for with refpect to the latter the demiurgus is faid to place their bodies in their fouls, as being every way comprehended by them, thefe fouls not being converted to the objects of their government, but employing one immutable intellection : but, with refpect to partial fouls, he is faid to caufe thefe to afcend into their vehicles; for thefe are naturally adapted to be frequently in fubjection to bodies, and to convert themfelves to the fubjects of their government; when they alfo become

to

to them the nature of the univerfe, and announced to them the laws of fate; fhowing them that the firft generation orderly diffributed to all was one, left any particular foul fhould be allotted a lefs portion of generation than another. But when he had diffeminated them through the feveral inftruments of time adapted to each, he declared to them it was neceffary that an animal the moft religious of all others fhould make its appearance. But as the human nature is twofold, he flowed them that the more excellent kind was that which would afterwards be called man. And as fouls are from neceffity engrafted in bodies, and as fomething accedes to and fomething departs from fuch bodies, he declared to them that, in the first place, one connate fenfe¹ produced by violent

parts of the univerfe as well as their vehicles, act in fubferviency to the laws of fate, and no longer live with purity under the divine light of Providence. It must likewife be obferved, that the demiurgus among other caufes contains that of Nature in himfelf, to which also he converts fouls. For, by showing Nature to fouls, he also beholds it himfelf. But he alone beholds things prior to and in himfelf. Now, therefore, he beholds Nature in himfelf, which he comprehends supernaturally, or according to caufe.

¹ The demiurgus, fays Proclus, comprehends the whole of a material and mortal life in three boundaries, and establishes the causes of it in fouls, that they may obtain dominion over it: for dominion is not derived from any thing elfe than effential precedency. The irrational life, therefore, fubfifts intellectually in the demiurgus, but rationally in fouls. Nor is this wonderful, fince body alfo fubfitts incorporeally in the intelligible caufes of all things. But this connate fenfe produced by violent paffions, of which Plato now fpeaks, is that corporeal life which is gnoftic of things falling upon it externally, which produces this knowledge through infiruments, does not fubfift from itfelf, but from the natures by which it is used, is mingled with material maffes, and knows what it knows with paffion. For it is neceffary to fenfation, that a certain agitation should be produced about the instruments of sense; fince neither do the motions in the foul pervade every where, and as far as to the body, but there is a motion of the foul belonging to itfelf by itfelf, fuch as is that which is intellectual; nor does every thing about the body extend as far as to the foul, but there is also a certain corporeal paffion, which through its obscurity is not able to move the foul. Senfe, therefore, is produced not from all paffions, but from fuch as are violent, and which are attended with much agitation. And this is corporeal fenfe, which is divisible and material, and forms its judgment mingled with paffions. But there is another fenfe prior to this, in the vehicle of the foul, which with respect to this is immaterial, and is a pure impaffive knowledge, itfelf fubfilting by itfelf, but which is not liberated from form, becaufe it alfo is corporeal, as being allotted its fubfiftence in body. And this fenfe, indeed, has the fame nature with the phantafy; for the being of both is common; but externally proceeding it is called fenfe, and abiding internally, and furveying in the fpirit (ev to avecuate) forms and figures, it is called phantafy. So far alfo as it is divided about the fpirit, it is fenfe. For, again, the bafis of the rational life is opinion; but the phantafy is the fummit of the fecond, or the irrational life. Opinion

violent paffions was neceffary to all; and, in the fecond place, love mingled with pleafure and grief. That after thefe, fear and anger were neceffary, with whatever elfe is either confequent to thefe, or naturally difcordant from a contrary nature. That fuch fouls as fubdue thefe would live

Opinion alfo and phantafy are conjoined with each other, and the fecond is filled from the more excellent with powers. But the middle of the irrational life does not receive the impreffion of the natures superior to it, but is alone the recipient of things external. It is common, however, to this al o to know that which is femible with passivity: but external fense alone pertains to things externally falling upon and moving it, not being able to posses feedcacles in itself, fince it is partible and not one; for it is distributed about the organs of fense. There is one fense, therefore, which is impassive and common, another which is common and passive, and a third which is distributed and passive. The first of these belongs to the first vehicle of the foul, the fecond, to the irrational life, and the third, to the animated body.

After fenfe, Plato arranges defire. And this indeed is life, and is alfo corporeal; but it is a life which perpetually unweaves the body, and affords a folace to its wants, and about which pleafure and pain are beheld. For thefe paffions are alfo prefent to other parts of the foul; fince you may perceive pleafures and pains, both in reafon and anger. But corporeal pleafure and pain are produced according to defire. For, with refpect to the body, a way contrary to nature, and a privation of life, produce pain in it; but a regreffion according to nature, and an adaptation to life, are the fources of its pleafure. And that which is afflicted or delighted in thefe is the defiderative part of the foul. But fince thefe two paffions are primary, and the fountains of the other paffions, as Plato fays in the Philebus and the Laws, through the mixture of thefe giving a generation to the other paffions he alfo denominates love a mixture of pleafure and pain. For, fo far as it is converfant with the lovely, it is prefent with pleafure, but, fo far as it is not yet prefent with it in energy, it is mingled with pain. But he characterizes all the life of defire through love, becaufe this paffion is moft vehement about it.

In the third place, therefore, he enumerates anger. Anger then is also life, but a life which removes every thing painful, and which diffurbs the body. Excels and defect also are furyeved about it, fuch as rafhnefs and timidity, and the things confequent to thefe, ambition and contention, and all fuch particulars as take place about mortal concerns. And fuch is the order of thefe three generated powers. For as foon as the body is formed it participates of fenfe: fince it would not be an animal, nor would poffefs appetite, if it were not fenfitive. For appetites fubfift in conjunction with fenfe, but the fenfes are not entirely in conjunction with appetites; and hence the animal is more characterized by the fenfitive than by the appetitive nature. But after the poff. fion of fenfe the animal appears to be pleafed and pained, afflicted by the cold, but cherifhed by the bandages, and led to a condition according to nature. After defire, as age advances, the animal is angered : for anger is the power of a more robult nature. Hence alfo, among irrational animals, fuch as are more material alone live according to defire, and partake of pleafure and pain; but fuch as are more perfect are allotted a more irateible life. But prior to these appetites, as we alfo faid of fenfe, there is a certain formait of them in the fpirit of the foul, which furmit is a power impulsive and motive of the spirit, guarding and connecting its effence, at one time extending and distributing itfelf, and at another being led to bound and order, and measured by reason.

juftly, but fuch as are vanquished by them unjuftly. And again, that he who lived well during the proper time of his life, fhould, again returning to the habitation of his kindred ftar ', enjoy a bleffed life. But that he whofe conduct was depraved, fhould in his fecond generation be changed into the nature of a woman. * That both thefe, at the expiration of a thousand years. fhould return to the allotment and choice of a fecond life; each foul receiving a life agreeable to its choice. That in this election the human foul fhould pafs into the life of a brute: * and that in cafe the inclination to evil should not even then cease, but the defilement of vice remain according to a fimilitude of the mode of generation, then the foul fhould be changed into the nature of a brute correspondent to its disposition. And that it should not be freed from the allotment of labours 2, till, following the

* Since Plato now difcourfes concerning fouls that are reftored to their priftine flate in their legitimate flar, after their first generation, and fays that on leaving the body they posses a happy life, it may be afked how this accords with what is faid in the Phædrus? For, there, he who choofes a philosophic life is reftored to his priftine flate through three lives. We reply, with Proclus, that Plato does not here affert that the foul paffes into that very flate whence it came, for this is accomplified through three chiliads of periods, but that the foul returns to the flar under which it was effentially arranged, and leads a life in common with it. For it is poffible for those that are not philosophers to be clevated by Justice to a certain place in the heavens, and there to live in a manner adapted to their life while in a human form : for this is afferted in the Phædo refpecting the fouls of fuch as are not philosophers; fince the reftoration to the fame condition again is one thing, and the afcent to the kindled ftar another. And the former of thefe requires three periods, but the latter may be effected by one period. The former alfo leads back the foul to the intelligible, from which it defcended, but the latter to a fubordinate form of life. For there are measures of felicity, and the ascent is twofold; one, of those that have yet to ascend fill higher, and the other, of those that have no further flight to take. So that it is poffible for the foul having arrived at its kindred flar, either to be conjoined with the mundane powers of its God, or to proceed ftill higher; but to be led back to the intelligible requires a period of three thousand years. For through this the highest flight is accomplished.

* The translation of the part between the two flars is omitted by Ficinus.

¹ The one fafety of the foul herfelf, fays Proclus, which is extended by the demiurgus, and which liberates her from the circle of generation, from abundant wandering, and an inefficacious life, is her return to the intellectual form, and a flight from every thing which naturally adheres to us from generation. For it is neceffary that the foul which is hurled like feed into the realms of generation, fhould lay afide the flubble and bark, as it were, which flic obtained from being diffeminated into these fluctuating realms; and that, purifying herself from every thing circumjacent, the thould become an intellectual flower and fruit, delighting in an intellectual life inftead of doxaftic nutriment, and purfuing the uniform and fimple energy of the period of famenefs, inftead

the revolution of that *fame* and *fimilar* nature contained in its effence, it vanquifhes those abundantly turbulent affections, tumultuous and irrational, adhering to it afterwards from fire, water, air, and earth, and returns to the first and best disposition of its nature.

When he had inftructed fouls in all thefe particulars, that he might be in no refpect the caufe of the future evil of each, he diffeminated fome of them into the earth, others into the moon, and others into the remaining different inftruments of time. But after this femination he delivered to the junior Gods the province of fabricating mortal bodies, and generating whatever elfe remained neceffary to the human foul; and gave them dominion over

flead of the abundantly wandering motion of the period which is characterized by difference. For the contains each of thefe circles and twofold powers. And of her horfes, one is good, and the other the contrary : and one of these leads her to generation, but the other from generation to true being; the one alfo leads her round the circle of fenfe, but the other round an intellectual effence. For the period of the fame and the fimilar clevates to intellect, and an intelligible nature, and to the first and most excellent habit. But this habit is that according to which the foul being winged governs the whole world, becoming affimilated to the Gods themfelves. And this is the universal form of life in the foul, just as that is the partial form when the falls into the last body, and becomes fomething belonging to an individual instead of belonging to the univerfe. The middle of these also is the partial universal, when the lives in conjunction with her middle vehicle, as a citizen of generation. Difmiffing, therefore, her first habit, which fubfists according to an alliance to the whole of generation, and laying afide the irrational nature which connects her with generation, likewife governing her irrational part by reafon, and extending intellect to opinion, the will be circularly led to a happy life, from the wandering about the regions of fenfe; which life those that are in tiated by Orpheus in the mysteries of Bacchus and Proferpine pray that they may obtain, together with the allotments of the fphere, and a ceffation of evil. But if our foul neceffarily lives well, when living according to the circle of famenefs, much more must this be the cafe with divine fouls. It is, however, possible for our foul to live according to the circle of famenefs, when purified, as Plato fays. Cathartic virtue, therefore, alone must be called the falvation of fouls; fince this cuts off and vehemently obliterates material natures, and the paffions which adhere to us from generation, feparates the foul, and leads it to intellect, and caufes it to leave on earth the vehicles with which it is invefted. For fouls defcending receive from the elements different vehicles, aërial, aquatic, and terrefirial; and thus at laft enter into this grofs bulk. For how, without a medium, could they proceed into this body from immaterial fpirits? Hence, before they come into this body, they poffefs the irrational life, and its vehicle, which is prepared from the fimple elements, and from thefe they enter into the tumulthous, which is to called as being foreign to the connate vehicle of fouls, composed from allvarious voltments, and caufing fouls to become heavy. In fhort, the connate vehicle makes the foul mundane, the fecond vehicle, a citizen of generation, and the fhelly body, (TO OFTERDER,) terrestrial.

every

every thing confequent to their fabrications. He likewife commanded them to govern as much as poflible in the beft and moft beautiful manner the mortal animal, that it might not become the caufe of evil to itfelf. At the fame time he who orderly difpofed all thefe particulars remained in his own accuftomed abiding habit. But in confiquence of his abiding, as foon as his children underftood the order of their father, they immediately became obedient to this order; and receiving the immortal principle of mortal animal, in imitation of their artificer, they borrowed from the world the parts of fire and earth, water and air, as things which they fhould reftore back again; and conglutinated the received parts together, not with the fame indiffoluble bonds which they themfelves participated, but gave them a tenacious adherence from thick fet nails, invifible through their fmallnefs; fabricating the body of each, one from the composition of all; and binding the circulations of the immortal foul in the influxive and effluxive nature of body.

But thefe circulations ', being merged in a profound river, neither govern nor are governed, but hurry and are hurried along with violence : in confequence

¹ Plato, fays Proclus, immediately conjoining the foul to the body, omits all the problems pertaining to the defeent of the foul, fuch as the prophet, the allotments, the lives, the elections, the dæmon, the refidence in the plain of oblivion, the fleeping, the oblivious potion, the thunders, and all fuch particulars as the fable in the Republic difcuffes. But neither does he here deliver fuch things as pertain to the foul after its departure from the body, fuch as the terrors, the rivers, Tartarus, those favage and fiery dæmons, the thorns, the bellowing mouth, the triple road, and the judges, concerning which the fable in the Republic, in the Gorg as, and in the Phædo, inftructs us. What, then, you will fay, is the caufe of this ontifion? We reply, Becaufe Plato preferves that which is adapted to the defign of the dialogue. For here he admits whatever is phyfical in the theory refpecting the foul, and its aflociation with the body.

It is requifite, however, to inquire why fouls fall into bodies. And we may reply, with Proclus, Becaufe they wifh to initiate the providential energies of the Gods, and on this account proceed into generation, and leave the contemplation of true being: for, as Divine perfection is twofold, one kind being intellectual, and the other providential, and one kind confifting in an abiding energy, and the other in motion, hence fouls imitate the prolific, intellectual, and immutable energy of the Gods by contemplation. But their providential and motive characterific through a life converfant with generation. As the intelligence, too, of the human foul is partial, fo likewife is her providence; but, being partial, it affociates with a partial body. But fill further, the defeent of the foul contributes to the perfection of the univerfe; for it is neceffary that there fhould not only be immortal and intellectual animals, fuch as are the perpetual attendants of the Gods,

quence of which, the whole animal is indeed moved, yet in a diforderly manner; fince from every kind of motion its progreffion is fortuitous and irrational. For it proceeds backwards and forwards, to the right and left, upwards and downwards, and wanders every way according to the fix differences of place. For though the inundating ¹ and effluxive waves pour along

Gods, nor yet mortal and irrational animals only, fuch as are the laft progeny of the demiurgus of the univerfe, but likewife fuch as fubfift between thefe, and which are by no means immortal *, but are capable of participating reafon and intellect. And in many parts of the univerfe there are many animals of this kind; for man is not the only rational and mortal animal, but there are other fuch-like fpecies, fome of which are more dæmoniacal, and others approximate nearer to our effence. But the defects of a partial foul contribute to the perfect composition of all animals, which are at the fame time mortal and rational.

Should it be again afked, Why, therefore, are partial fouls defcending into generation filled with fuch material perturbation, and fuch numerous evils? we reply, that this takes place through the inclination arifing from their free will; through their vehement familiarity with body; through their fympathy with the image of foul, or that divifible life which is diffributed about body; through their abundant mutation from an intelligible to a fentible nature, and from a quiet energy to one entirely converfant with motion; and through a difordered condition of being, naturally arifing from the composition of diffimilar natures, viz. of the immortal and mortal, of the intellectual and that which is deprived of intellect, of the indivisible and that which is endued with interval. For all thefe become the caufe to the foul of this mighty tumult and labour in the realms of generation; fince we purfue a flying mockery which is ever in motion. And the foul. indeed, by verging to a material life, kindles a light in her dark tenement the body, but fhe herfelf becomes fituated in obfcurity; and by giving life to the body, fhe deftroys herfelf and her own intellect, in as great a degree as thefe are capable of receiving deflruction. For thus the mortal nature participates of intellect, but the intellectual part of death, and the whole becomes a prodigy, as Plato beautifully observes in his Laws, composed of the mortal and immortal, of the intellectual, and that which is deprived of intellect. For this phyfical law, which binds the foul to the body, is the death of the immortal life, but is the caufe of vivification to the mortal body.

¹ The philofopher here, fays Proclus, refers the whole of this tumult to two caufes, viz. the nutritive and fenfitive life; and thefe are the appetitive and gnoffic powers of all the irrational part, into which we are accuftomed to divide all the powers of the foul, afferting that fome of them are vital, and others gnoffic. For the nutritive life, verging to bodies, produces in them an abundant flux; through their material moiffure fending forth a great efflux, and through vital heat receiving an influx of other things. But the fenfitive life fuffers from the external bodies of fire and air, earth and water, falling upon it; and, confidering all the paffions as mighty, through the vilenefs of its life, caufes tunnult to the foul. And to all thefe things, indeed, thofe that are arrived at maturity are accuftomed; but to thofe that are recently born, the fmalleft things.

* For the whole composite which we call man is not immortal, but only the rational foul.

VOL. 11.

through

along with impetuous abundance, which afford nutrition to the animal, yet a ftill greater tumult and agitation is produced through the paffions arifing from external impulfions: and this either when the body is diffurbed by the fudden incurfion of external fire, or by the folidity of earth, or receives an injury from the whirling blafts of the air. For from all thefe, through the medium of the body, various motions are hurried along, and fall with moleftation on the foul. But on this account all thefe were afterwards, and are even now, denominated fenfes. And thefe, indeed, both at firft and at prefent ¹, are the fources of an abundant and mighty motion, in conjunction with

through their being unufual, become the caufes of altonifhment. For, what a great fire is to the former, that the flame of a lamp is to the latter; and what the magnitude of the higheft mountains is to men, that the fmalleft ftone in the fields is to infants. And what whirlwinds and cataracts of rain are to others, that a weak motion of the air, or the falling of a little moifture, is to those that are recently born. For fense, being agitated by all these particulars, aftonishes the foul of infants, and leads them to defperation and tumult. Thefe, then, in fhort, are the caufes of the diffurbance of fouls, viz. the motions of the nutritive part, and the impulses of fense. We muft not, however, fuppofe that the foul fuffers any thing through thefe particulars. For, as if fome one flanding on the margin of a river fhould behold the image and form of himfelf in the floating ftream, he indeed will preferve his face unchanged, but the ftream being all-varioufly moved will change the image, fo that at different times it will appear to him different, oblique and upright, and perhaps divulfed and continuous. Let us fuppofe, too, that fuch a one, through being unaccuftomed to the fpectacle, fhould think that it was himfelf that fuffered this diffortion, in confequence of furveying his fladow in the water, and, thus thinking, flould be afflicted and difturbed, aftonifhed and impeded. After the fame manner the foul, beholding the image of herfelf in body, borne along in the river of generation, and varioufly difpored at different times, through inward paffions and external impulses, is indeed herfelf impaffive, but thinks that fhe fuffers, and, being ignorant of, and miftaking her image for, herfelf, is diffurbed, aftonifhed, and perplexed. This paffion particularly takes place in infants : but it is alfo feen in the dreams of those that have arrived at maturity; as when some one, in confequence of nature being wearied in the concoction of food, thinks in a dream that he is wearied through long journeys, or carrying heavy burdens, or fuffers fomething elfe of this kind. But to return to the words of Plato, the waves do not fignify, fays Proclus, the externally blowing wind, as fome fay, but the collected agitation, and abundant influx and efflux which take place in youth. But the inundation first strikes upon and makes the pneumatic vehicle heavier, for it is this which expresses stains and vapours; and in the fecond place it firikes upon the foul, for the alfo is diffurbed by the collected and the fudden.

¹ Senfe, fays Proclus, is of the prefent, in the fame manner as memory is of the paft, but hope of the future. Senfe, therefore, excites fouls in the prefent time, and this in conjunction with the nutritive power, which by influxions applies a remedy to the perpetual effluxions of the

with that perpetually flowing river, moving and vehemently agitating the circulations of the foul, every way fettering the revolution of the nature characterized by famenefs, through flowing in a contrary direction, and reftraining its energies by their conquering and impetuous progressions. But they agitate and tear in pieces the circulation of the nature diffinguished by difference. Hence, they whirl about with every kind of revolution each of the three intervals of the double and triple, together with the mediums and conjoining bonds of the fefquitertian, fefquialter, and fefquioctave ratios, which cannot be diffolved by any one except the artificer by whom they were bound: and befides this, they induce all the fractures and diversities of circles which it is poffible to effect; fo that, fcarcely being connected with each other, they are borne along indeed, yet in an irrational manner, at one time in a contrary, at another time in an oblique, and then again in a refupine fituation. Just as if any one, in an inverted position, should fix his head on the earth and raife his feet on high; for in fuch a fituation both the inverted perfon and the spectators would mutually imagine the right hand parts to be on the left, and the left to be on the right. So with respect to the circulations of the foul, the very fame affections, and others of a fimilar kind, vehemently

the body, and again composes what was analysed, after the manner of Penelope's web. For this is the perpetually flowing river, which is properly fo called, as being a part of the whole river of generation. Hence, in conjunction with this, it agitates and difturbs the periods of the immortal foul, and fetters, indeed, the circle of famene/s, but agitates the circle of difference. For, as there are twofold circles in the foul in imitation of divine fouls, the dianoëtic circle, which contemplates intelligibles, is only reftrained in its energy, but fuftains no diffortion : but the doxaffic circle is difforted; and this very properly, fince it is poffible to opine not rightly, but it is not poffible to know fcientifically falfely. If it fhould be faid that the dianoëtic part may be ignorant in a twofold refpect, and that a thing which fuffers this is diftorted; we reply, that twofold ignorance does not fimply belong to the dianoëtic part, but, originating indeed from thence, is implanted in the doxaftic part. For, fo far as it is ignorance, and a privation of fcience, fo far, being an immobility of the feientific power, it originates from the dianoëtic part. For feience and ignorance fublift about the fame thing. But, fo far as it also adds a falfe opinion of knowledge, it fubfilts in the doxaftic part. And ignorance is the infanity of the dianoëtic part, poffeffing, indeed, but concealing, the productive principles of knowledge; but falfe conception is the infanity of opinion, of which it is alfo the diffortion. For, being falfe, it alfo depraves its poffeffor; fince what vice is in action, that falfehood is in knowledge. The period of famenefs, therefore, is alone fettered, and is fimilar to thofe that are bound, and on this account are impeded in their energies; but the period of difference is agitated, being filled with falle opinions. For its proximity to the irrational nature caufes it to receive a certain paffion from externals.

take

take place; and hence, when this is the cafe, if any thing external occurs, characterized by the nature of *fame* or *different*, they denominate things the fame with, or different from, others in a manner contrary to the truth. Hence they become falle, and defitute of intelligence; nor is any revolution to be found among them in fuch a fituation which energizes with the authority of a ruler and chief.

But when certain fenfes, borne along externally, ftrike against the foul and attract the whole of its receptacle, then the circulations which are in reality in fubjection appear to have dominion : and hence, in confequence of all these passions, the soul becomes infane at present, and was fo from the first period of her being bound in a mortal body. However, when the river of increase and nutrition flows along with a more gentle and lefs abundant courfe, the circulations, being again reftored to tranquillity, proceed in their proper path; in procefs of time become more regular and fleady, and pass into a figure accommodated to their nature. Hence, in this case, the revolutions of each of the circles becoming direct, and calling both fame and different by their proper appellations, they render the being by whom they are poffeffed prudent and wife. If any one, therefore, receives a proper education in conjunction with convenient nutriment, fuch a one will poffefs perfect health, and will every way avoid the most grievous difease. But when this is neglected by any individual, fuch a one, proceeding along the path of life in a lame condition, will again pass into Hades imperfect and destitute of intelligence. These are particulars, however, which happen pofterior to the production of mankind. But it is our bufinefs at prefent to difcourfe more accurately concerning the first composition of our nature, and to fhow, in the first place, from affimilative reasons, through what caufe and providence of the Gods the feveral members of the body were accommodated to the feveral employments of the foul.

In the first place, then, the Gods bound the two divine circulations of the foul in a fpherical body, in imitation of the circular figure of the universe: and this part of the body is what we now denominate the head; a most divine member, and the fovereign ruler of our whole corporeal composition, through the decree of the Gods, who confidered that it would participate of all possible motions. Left, therefore, the head, by rolling like a cylinder on the earth, which is diffinguished by all-various heights and depths, should be

be unable to pass over its inequalities and asperities, the Gods subjected this upright figure of the body, as a pliable vehicle to the head. Hence, in confequence of the body being endued with length, they extended four naturally flexible members; Divinity fabricating a progression through which the body might apprehend any object, might receive a ftable fupport, and might be able to pass through every place, bearing on high the head, our most divine and facred habitation. For this purpofe, therefore, they furnished us with legs and hands. And as the Gods confidered that the anterior parts are more honourable and adapted to rule than the pofterior, they gave us a motion for the most part confisting of a forward progression. Beside this, it was requifite that the anterior parts of our body should be divided from each other, and be diffimilar: and on this account they first placed about the cavity of the head the face; fixed in it organs fubfervient to all the providential energies of the foul, and determined that the natural government of man fhould confift in this anterior part of the body. But they fabricated the luciferous eyes the first of all the corporeal organs, binding them in the face on the following account. Of that fire which does not burn, indeed, but which comprehends our proper diurnal light, the Gods fabricated the orbs of the eyes. For the fire contained within our body, and which is the genuine brother of this diurnal fire, they caufed to flow through the eyes with fmoothnefs, and collected abundance, condenfed indeed in the whole, but efpecially in the middle of these lucid orbs; so as that the more dense fire might remain concealed within the receffes of the eyes, and the pure might find a paffage and fly away. When, therefore, the diurnal light fubfifts about the effluxive river of the light, then, fimilar concurring and being mingled with fimilar, one domeftic body is conflituted according to the direct procession of the eyes; and this too in that part where the internally emitted light refifts that which is externally adduced. But the whole becoming fimilarly paffive through fimilitude, when it either touches any thing elfe or is itfelf touched by another, then the motion produced by this contact diffufing itfelf through the whole body of the eye, as far as to the foul, caufes that fendation which we denominate fight. But when this kindred fire departs into night, the conjunct on being diffolved, fight lofes its power. For in this cafe, proceeding into a diffimilar nature, it is changed, and becomes extinct : fince it is by no means connate with the proximate furrounding air, which is naturally destitute defitute of fire. Hence it ceafes from feeing; and, befides this, becomes the introducer of fleep. For the Gods fabricated the nature of the eye-lids as a falutary guardian of the fight; that, thefe being compreffed, the inward fiery power of the eye might be reftrained from any further emiffion; that, befides this, they might fprinkle over and equalize the eye's internal motions; and that, when equalized, reft might be produced.

But when much reft takes place, fleep attended with few dreams is produced. On the contrary, if certain more vehement motions remain, then fuch as is the nature of these relics, and the places in which they were produced, fuch and fo many will be the fimilar phantafms within, and of which we fhall poffefs the remembrance when we are externally roufed. But with respect to the images produced in mirrors, and all fuch things as are visible in that which is apparent and fmooth, there is nothing in these difficult of folution. For, from the communication of the external and internal fire with each other, and from that fire which fubfifts about the fmooth body, and becomes abundantly multiplied, all fuch appearances are neceffarily produced as take place when the fire of the eyes mingles itfelf with the fire diffused about the fmooth and fplendid object of vision. But the right hand parts appear to be the left, becaufe a contact takes place between the contrary parts of the fight and the contrary parts of the object, different from the accuftomed mode of perception. On the contrary, the right hand parts appear on the right, and the left hand on the left, when the mingled light leaps forth, together with that with which it is mingled. When the fmoothnefs of the mirrors receives this here and there in an elevated manner, it repels the right hand part of the fight to the left of the mirror, and the left to the right. But if the mirror is turned according to the length of the countenance, it caufes the whole face to appear refupine, by repelling the downward part of the fplendour towards the upward part, and again the upper towards the downward part. All fuch particulars as thefe, therefore, are but caufal affiftants, which the Divinity employed as fubfervient to rendering the idea of that which is beft as far as poffible complete. But the multitude are of opinion that thefe are not caufal affiftants, but the real caufes of all things; I mean fuch things as are capable of giving cold and heat, rarity and density, with whatever produces fuch-like affections, but is incapable of poffeffing reason and intellect. For foul must be confidered as the only thing among beings by which intellect 6 çan
can be poffeffed. And this is invisible. But fire and water, air and earth, are all of them visible bodies. It is, however, neceffary that the lover of intellect and fcience flould explore the first causes of prudent nature; and that he should confider fuch things as are moved by others, and at the fame time neceffarily give motion to other things, as nothing more than fecondary causes. Hence it is proper that we should speak concerning both kinds of causes; separately of fuch as fabricate things beautiful and good in conjunction with intellect, and of fuch as, being left destitute of wisdom, produce each particular in a cafual and diforderly manner. Concerning the fecond causes of the eyes, therefore, which contribute to the possibility of the power they are now allotted, what has been already faid is fufficient.

But the greatest employment of the eyes, with respect to the use for which they were beftowed on us by the Divinity, we fhall now endeavour to explain. For, in my opinion, the fight is the caufe of the greatest emolument to us on the prefent occasion; fince what we are now difcourfing concerning the univerfe could never have been difcovered without furveying the ftars. the fun, and the heavens. But now, from beholding day and night, we are able to determine by arithmetical calculation the periods of months and years: to acquire a conception of time, and to fcrutinize the nature of the univerfe. But from all this we obtain the poffeffion of philosophy; a greater good than which never was nor ever will be beftowed by the Gods on the mortal And this is what I call the greateft benefit of the eyes. But why race. fhould I celebrate other particulars of lefs confequence, which he who is not a philosopher, fince defitute of fight, may attempt to explore, but will explore in vain? By us, indeed, it is afferted that Divinity beftowed fight on us for this purpofe, that on furveying the circulations of intellect in the heavens we may properly employ the revolutions of our dianoëtic part, which are allied to their circulations; and may recall the tumultuous motions of our difcurfive energies to the orderly proceffions of their intellectual periods. That befides this, by learning thefe and participating right reafon according to nature, and imitating the revolutions of Divinity which are entirely inerratic, we may give flability to the wanderings of our dianoëtic energy.

But concerning voice and hearing, we again affert that they were beflowed on us by the Gods on the fame account. For the acquifition of fpeech pertains to thefe, and is of the greatest advantage to their possession. And

And whatever utility mufical voice brings to the fenfe of hearing, was bestowed for the take of harmony. But harmony, posseffing motions allied to the revolutions of our foul, is ufeful to the man who employs the Mules in conjunction with intellect; but is of no advantage to irrational pleafure. though it appears to be fo at prefent. Indeed, it was given us by the Mufes for the purpose of reducing the diffonant circulation of the foul to an order and fymphony accommodated to its nature. Rhythm too was bestowed on us for this purpose; that we might properly harmonize that habit in our nature, which for the most part is void of measure, and indigent of the Graces. And thus far, a few particulars excepted, have we shown the fabrications of intellect. But it is likewife requifite to give a place in our difcourfe to the productions of neceffity. For, the generation of the world being mingled, it was produced from the composition of intellect and neceffity. But intelleft ruling over neceffity perfuaded it to lead the most part of generated natures to that which is beft; and hence neceffity being vanquished by wife perfusion, from these two as principles the world arose. If, then, any one truly afferts that the universe was generated according to these, he should alfo mingle with it the form of an erratic caufe, which it is naturally adapted to receive. In this manner then let us return; and, affuming a convenient principle of these, again discourse concerning them as about the former particulars, commencing our difcuffion from their origin. Let us, therefore, speculate the nature and passions of fire and water, air and earth, prior to the generation of the heavens. No one, indeed, as yet has unfolded the generation of these: but we speak of fire, and the other elements, as if the nature of each was known ; and place them as the principles of the universe, when at the fame time they ought not to be affimilated to elements, not even as in the rank of fyllables, by men who in the fmalleft degree merit the appellation of wife. But now we shall not speak of the principle or principles, or whatever other denomination they may receive, of all things; and this for no other reafon than the difficulty of delivering what appears to be the truth about these in the present mode of disputation. Neither, therefore, is it proper that you should expect me to speak, nor that I should perfuade myfelf into a belief of being able to fpeak with perfect rectitude on fo difficult a fubject. But it is proper, as I tol 1 you in the beginning of this difcourfe, that, preferving all the force of affimilative reasons, we should endeavour to deliver 4

deliver that which is not lefs affimilative of the truth than the doctrine of others; and that in this manner we fhould difcourfe from the beginning concerning particulars and the whole. In the first place, therefore, invoking the Divinity who is the faviour of difcourfe, and befeeching him to lead us from an abfurd and unufual exposition to an affimilative doctrine, we shall again begin to speak.

But it is neceffary that the beginning of our prefent difputation should receive a more ample division than the former one. For then we made a diftribution into two fpecies: but now a third fort must be added. In the former difputation two species were sufficient; one of which was established as the form of an exemplar, intelligible and always fublifting according to fame; but the other was nothing more than the imitation of the paradigm, generated and visible. But we did not then distribute a third, because we confidered these two as sufficient. However, now reason seems to urge as a thing neceffary, that we fhould endeavour to render apparent by our difcourfe the fpecies which fubfilts as difficult and obfcure. What apprehension then can we form of its power and nature? Shall we fay that it is in an eminent degree the receptacle, and as it were nurfe, of all generation ? Such an affertion will, indeed, be true; but it is requisite to speak more clearly concerning it. And this will certainly be an arduous undertaking on many accounts, but principally becaufe it will be neceffary to doubt previous to its discuffion concerning fire and the rest of the elements, why any one of these should be called water rather than fire, or air rather than earth ; or why any one should be denominated some definite particular rather than all. For it is indeed difficult to frame any certain opinion, or to employ any ftable difcourse about such intricate forms. After what manner, then, and in what respect, and what of an affimilative nature shall we affert in this dubious inquiry ?

In the first place, then, that which we now denominate water, when it lofes its fluidity by concretion, appears to become stones and earth; but, when liquessided and dispersed, it forms vapour and air. Likewise, air when burnt up becomes fire. And, on the contrary, fire becoming concrete and extinct passes again into the form of air. And again, air becoming collected and condensed produces mists and clouds. But from these still more compressed and form water, again, earth and stones derive

VOL. II.

their

their subsistence. And thus, as it appears, they mutually confer on each other generation in a certain circular progreffion. But fince thefe never appear to be the fame, who without being covered with confusion can confidently affert that any one of these is this rather than that? Certainly, no one. Hence it will be far the most fafe method of proceeding to speak about them as follows: That the nature which we always perceive becoming fomething different at different times, fuch, for inftance, as fire, is not fire abfelutely, but fomething fiery. And again, that the nature which we denominate water is not abiolutely fo, but fuch-like, or watery; and that it is not at any time any thing elfe, as if it poffeffed any ftability of effence. And laftly, that they cannot be diffinguished by any word, fuch as we are accuftomed to employ when endeavouring to fhow that any particular is either this thing or that. For they fly away, incapable of fulfaining the affirmation which afferts them to be this thing, of fuch a nature, belonging to this; and all fuch appellations as would evince them to be fomething permanent and real. Hence, we ought not to denominate any one of thefe either this, or that ; but fomething fuch-like, and a perpetually-revolving fimilitude. Thus, we should affert that fire is every where fuch-like, and should fpeak in the fame manner of every thing endued with generation. But we should alone diffinguish by the appellations of this, or that, the subject in which each of these appears to be generated, and again to fuffer a diffolution. But this fubject is by no means to be denominated fuch-like, as for inftance hot or white, or any quality belonging to contraries, or any thing which contraries compose. However, let us endeavour to explain more clearly what we mean to exprefs. For if any one, fashioning all possible figures from gold, fhould without ceafing transform each figure into all; and if, during this operation, fome one who is prefent fhould, pointing to one of these figures, inquire what it is; it might most fafely, with respect to truth, be replied, that it was gold : but he who fhould affert that it is a triangle, or any other of the figures which are continually generated, and which ought by no means to be denominated beings, would fall from the truth in the midft of his affertion. But we ought to be content with that answer as most fafe, which denominates it fuch-like, or of fuch a determinate nature.

In the fame manner we fhould fpeak concerning that nature which is the general receptacle of all bodies. For it never departs from its own proper power, power, but perpetually receives all things; and never contracts any form in any respect fimilar to any one of the intromitted forms. It lies indeed in fubjection to the forming power of every nature, becoming agitated and figured through the fupernally intromitted forms: and through thefe it exhibits a different appearance at different times. But the forms which enter and depart from this receptacle are the imitations of perpetually true beings; and are figured by them in a manner wonderful and difficult to defcribe, as we shall afterwards relate. At prefent, however, it is necessary to confider three forts of things : one, that which is generated ; another, that in which it is generated; and the third, that from which the generated nature derives its fimilitude. But it is proper to affimilate that which receives to a mother; that from whence it receives to a father; and the nature fituated between these to an offspring. It is likewise necessary to understand that the figured nature can never become diffinguished with an all-poffible variety of forms, unlefs its receptacle is well prepared for the purpofe, and is deftitute of all those forms which it is about to receive. For, if it were fimilar to any one of the fupernally intromitted forms, when it received a nature contrary to that to which it is fimilar, or any form whatever, it would very imperfectly express its fimilitude, while at the fame time it exhibited the very fame appearance with the fupernally acceding form. And hence it is neceffary, that the receptacle which is defined to receive all poffible forms should itself be destitute of every form. Just as those who are about to prepare fweet-fmelling unguents, fo difpofe a certain humid matter as the fubject of the enfuing odour, that it may poffefs no peculiar fmell of its own; and as those who with to impress certain figures in a fost and yielding matter, are careful that it may not appear impressed with any previous figure, but render it as much as possible exquisitely smooth. In the same manner, it is neceffary that the fubject which is fo often deftined to receive in a beautiful manner, through the whole of itfelf, refemblances of eternal beings, fhould be naturally defitute of all that it receives. Hence, we should not denominate this mother and receptacle of that which is generated, visible and every way tenfible, either earth, or air, or fire, or water; nor, again, any one of the composites from these, or any thing from which these are generated: but we fhould call it a certain invisible species, and a formless universal recipient, which in the most dubious and scarcely explicable manner partici-

pates

pates of an intelligible nature. Of itfelf, indeed, we cannot speak without deception; but fo far as it is poffible to apprehend its nature from what has been previoufly faid, we may with the greateft rectitude affert as follows: that fire appears to be its inflamed part; water its moift part; and that earth and air are its parts in a fimilar manner, to far as it receives the imitations of thefe. But we ought rather thus to inquire about thefe, dillinguifhing and feparating them by a reasoning process; whether there is a certain fire, itfelf fubfifting in itfelf; and whether this is the cafe with all fuch particulars which we perpetually affert to fubfift from themfelves; or whether fuch things alone as are the objects of fight, and which are perceived through the ministry of the body, possess being and truth; fo that nothing befides these has in any respect any subfishence; that we in vain affert there is a certain intelligible form of each of these; and that all such forms are nothing but words. Indeed, whether fuch a doctrine is true or not, must not be afferted rashly and without examination : nor is it proper to add to the prefent difputation, which is naturally prolix, any thing tedious and foreign from the purpose. But if any definition can be employed in this affair, comprehending things of great moment in a fhort compass, such a one will be very opportune to our prefent defign. In this manner then I shall relate my opinion on the fubject.

If intellect and true opinion are two kinds of things, it is every way neceffary that there should be forms, subsisting by themselves, which are not the objects of fenfe, but which are apprehended by intelligence alone. But if, as appears to fome, true opinion differs in no refpect from intellect, every thing which is perceived through body is to be confidered as pofferfing the most certain and stable nature. But in reality these ought to be denominated two diffinct things, becaufe they are generated feparate from each. other, and are diffimilar. For the one of these sublists in us through learning, but the other through perfuation. And the one is indeed always attended with true reason, but the other is irrational. The one is not to be moved by perfuafion; the other, on the contrary, is fubject to this mutation. And laftly, of true opinion every man participates; but of intellect all the Gods, and but a few of mankind. Such then being the cafe, we must confefs that the form which tubfifts according to fame, is unbegotten and without decay; neither receiving any thing into itfelf externally, nor itfelf proceeding

ceeding into any other nature. That it is invisible, and imperceptible by fenfe; and that this is the proper object of intellectual speculation. But the form which is fynonymous and fimilar to this, must be confidered as fensible, generated, always in agitation, and generated in a certain place, from which it again recedes, haftening to diffolution; and which is apprehended by opinion in conjunction with fense. But the third nature is that of place; which never receives corruption, but affords a feat to all generated forms. This indeed is tangible without tangent perception; and is fcarcely by a certain spurious reasoning the object of belief. Besides, when we attempt to behold this nature, we perceive nothing but the delufions of dreams, and affert that every being must neceffarily be fomewhere, and be fituated in a certain place : and we by no means think that any thing can exift, which is neither in the earth nor comprehended by the heavens. All thefe, and all fuch opinions as are the fifters of thefe, we are not able to feparate from our cogitation of that which fublifts about a vigilant and true nature : and this because we cannot rouse ourselves from this fallacious and dreaming energy, and perceive that in reality it is proper for an image to fubfift in fomething different from itfelf; fince that in which it is generated has no proper refemblance of its own, but perpetually exhibits the phantafin of fomething elfe; and can only participate of effence in a certain imperfect degree, or it would become in every respect a perfect non-entity. But to true being, true reafon bears an affifting teffimony, through the accuracy of its decifions; affirming, that as long as two things are different from each other, each can never become fo fituated in either, as to produce at the fame time one thing, and two things effentially the fame.

This, then, is fummarily my opinion :---that, prior to the generation of the univerfe, thefe three things fubfifted in a triple refpect, viz. being, place, and generation. And that the nurfe of generation, fiery and moift, receiving the forms of earth and air, and fuffering fuch other paffions as are the attendants of thefe, appeared of an all-various nature to the view. But becaufe it was neither filled with fimilar powers, nor with fuch as are equally balanced, it possified no part in equilibrium; but through the perfect inequality of its libration it became agitated by thefe passions, and again through its motion gave agitation to thefe. But the parts in motion, being feparated from each other, were impetuously hurried along in different directions. directions, fimilar to the agitations and ventilations which take place in the operations of textorial inftruments, and fuch as are employed in the purgation of corn. For in this cafe the denfe and the heavy parts are borne along one way, and the rare and the light are impelled into a different feat. In the fame manner, thefe four natures being agitated by their receptacle tumultuoufly moving like the inftrument of corn, fuch as were diffimilar became far feparated from each other, and fuch as were fimilar became again amicably united. And hence they paffed into different feats before the univerfe was from the mixture of thefe diffributed into beautiful order; but at the fame time they all fublifted irrationally, and without the limitation of meafure.

But when the artificer began to adorn the universe, he first of all figured with forms and numbers fire and earth, water and air, which poffeffed indeed certain traces of the true elements, but were in every respect to conflituted, as it becomes any thing to be from which Deity is abfent. But we should always perfevere in afferting that Divinity rendered them as much as poffible the most beautiful and the best, when they were in a state of existence opposite to such a condition. I shall now, therefore, endeavour to unfold to you the diffribution and generation of thefe by a difcourfe unufual indeed, but, to you who have trod in all the paths of erudition, through which demonstration is necessarily obtained, perfpicuous and plain. In the first place, then, that fire and earth, water and air, are bodies, is perfpicuous to every one. But every fpecies of body poffeffes profundity; and it is neceffary that every depth should comprehend the nature of a plane. Again, the rectitude of the bafe of a plane is composed from triangles. But all triangles originate from two fpecies; one of which poffeffes one right angle, and the other two acute angles. And one of these contains one right angle diffributed with equal fides; but in the other unequal angles are diffributed with unequal fides. Hence, proceeding according to affimilative reafons, conjoined with neceffity, we fhall eftablish a principle of this kind, as the origin of fire and all other bodies. The supernal principles of these indeed are known to Divinity, and to the man who is in friendship with Divinity.

But it is neceffary to relate by what means four most beautiful bodies were produced; diffimilar indeed to each other, but which are able from certain diffolutions into each other to become the fources of each other's generation,

generation. For, if we are able to accomplish this, we shall obtain the truth concerning the generation of earth and fire, and of those elements which are fituated according to analogy between thefe. And then we shall not affent to any one who should affert that there are visible bodies more beautiful than thefe, each of which fublifts according to one kind. We must endeavour, therefore, to harmonize the four forts of bodies excelling in beauty; and to evince by this means that we fufficiently comprehend the nature of these. Of the two triangles indeed the itofceles is allotted one nature, but the oblong or fcalene is characterized by infinity. We ought therefore to choose the most beautiful among infinites, if we wish to commence our investigation in a becoming manner. And if any one shall affert that he has chosen something more beautiful for the composition of these, we shall fuffer his opinion to prevail; confidering him not as an enemy, but as a friend. Of many triangles, therefore, we shall establish one as most beautiful (neglecting the reft); I mean the equilateral, which is composed from three parts of a fcalene triangle. To affign the reafon of this would indeed require a prolix differtation; but a pleafant reward will remain for him who by a diligent investigation finds this to be the cafe. We have, therefore, felected two triangles out of many, from which the body of fire and of the other elements is fabricated; one of which is ifofceles, but the other is that which always has its longer fide triply greater in power than the fhorter.

But that which we formerly afferted without fufficient fecurity, it is now neceffary more accurately to define. For it appeared to us, though improperly, that all thefe four natures were mutually generated from each other: but they are in reality generated from the triangles which we have juft deferibed :---three of them, indeed, from one triangle containing unequal fides; but the fourth alone is aptly composed from the ifosceles triangle. All of them, therefore, are not able, by a diffolution into each other, to produce from many fmall things a mighty few, or the contrary. This indeed can be effected by three of them. For, as all the three are naturally generated from one triangle, when the greater parts are diffolved, many fimall parts are composed from them, receiving figures accommodated to their natures. And again, when the many fimall parts being feattered according to triangles produce a number of one bulk, they complete one mighty species of of a different kind. And thus much may fuffice concerning their mutual generation.

It now remains that we should speak concerning the quality of each of their kinds, and relate from what concurring numbers they were collected together. The first species indeed is that which was composed from the feweft triangles, and is the element of that which has its longer fide twice the length of the fhorter fide, which it fubtends. But two of these being mutually placed according to the diameter, and this happening thrice, the diameters and the fhorter fides paffing into the fame, as into a centre, hence one equilateral triangle is produced from fix triangles. But four equilateral triangles being composed, according to three plane angles, form one folid angle; and this the most obtuse of all the plane angles from which it is composed. Hence, from four triangles of this kind receiving their completion, the first folid species was constituted, distributive of the whole circumference into equal and fimilar parts. But the fecond was formed from the fame triangles, but at the fame time conftituted according to eight equilateral triangles, which produced one folid angle from four planes: fo that the fecond body received its completion from the composition of fix triangles of this kind. And the third arofe from the conjunction of twice fixty elements, and twelve folid angles, each of which having twenty equilateral bafes is contained by five plane equilateral triangles. In this manner, then, the other elements generated thefe. But the ifofceles triangle, being conftituted according to four triangles, and collecting the right angles at the centre, and forming one equilateral quadrangle, generated the nature of the fourth element. But fix fuch as thefe being conjoined produced eight folid angles, each of which is harmonized together, according to three plane right angles. Hence the figure of the body thus composed is cubical, obtaining fix plane quadrangular equilateral bafes. There is alfo a certain fifth composition, which Divinity employed in the fabrication of the universe, and when he delineated those forms the contemplation of which may justly lead fome one to doubt whether it is proper to affert that the number of worlds is infinite or finite ;--- though indeed to affirm that there are infinite worlds, can only be the dogma of one who is ignorant about things in which it is highly proper to be skilful. But it may with much less absurdity be doubted whether there is in reality but one world, or whether there are five. According to our opinion.

opinion, indeed, which is founded on affimilative reafons, there is but one world: though fome one, regarding in a certain refpect other particulars, may be of a different opinion. But it is proper to difmifs any further fpeculations of this kind.

Let us now, therefore, diffribute the four forts of things which we have generated, into fire, earth, water, and air. And to earth indeed let us affign a cubical form : for earth is the most immovable of all these four kinds, and the most plastic, or adapted to formation, of all corporeal natures. But it is in the most eminent degree necessary that this should be the cafe with that which poffeffes the most fecure and stable bases. Among the triangles, indeed, eftablished at the beginning, fuch as are equilateral possess firmer bafes than fuch as contain unequal fides. And hence, among the plane figures composed from each, it will be found that the ifosceles is neceffarily more stable than the equilateral, and the square than the triangle, both when confidered according to parts and to the whole. Con this account, by diffributing this figure to the earth, we shall preferve an assimilative reason. This will be the cafe too by affigning to water that figure which is more difficultly movable than the other three; to fire, the most easily movable form; and to air, that figure which poffeffes a middle nature. Befides this, we fhould affign the fmalleft body to fire, the greateft to water, and one of a middle kind to air. And again, the most acute body to fire, the fecond from this to air, and the third to water. But, among all these, it is neceffary that the body which poffeffes the feweft bafes, fhould be the most eafily movable: for, being every way the most acute, it becomes the most penetrating and incilive of all. It is likewife the moft light, becaufe composed from the feweft parts. But that which is fecond to this, poffeffes thefe properties in a fecondary refpect; and that which ranks as the third, in a third gradation. Hence, according to right and affimilative reason, the solid form of the pyramid is the element and feed of fire. But we must affign that form which is fecond according to generation to air; and that which is the third to water. And it is neceffary to confider all thefe fuch, with respect to their fmallnefs, that no one of the feveral forts can be difcerned by us, on account of its parvitude; but that, when many of them are collected together, their bulks become the objects of our perception. And befides this, all thefe were accurately abfolved and harmonized by the Divinity, both

VOL. II.

as

as to their multitude, motions, and powers, in fuch a proportion as the willing and perfuaded nature of necessity was able to receive.

But, among all those natures whose kinds we have above related, the following circumftances appear to take place. And first with respect to earth : when it meets with fire, becoming diffolved by its acutenefs, it is borne along; and remains in this diffolved flate either in fire, or in the bulk of air, or in that of water-till its parts, affociating themfelves together, and again becoming mutually harmonized, produce again a body of earth; for it can never pass into another form. But water, when it is diffributed into parts by fire or air, when its parts become again collected, produces one body of fire, but two bodies of air. And the fections of air form from one diffolved part two bodies of fire. Again, when fire receives into itfelf either air or water, or a certain earth, and, being itfelf fmall, is moved in many natures; and befides this, when, through oppofing, being vanquished by the agitated forms, it becomes broken in pieces, then two bodies of fire coalefce into one form of air. And when air becomes vanquished and separated into parts, then, from two wholes and a half, one whole form of water is produced. But, again, let us confider this matter as follows : When any one of the other forms, becoming invefted by fire, is cut by the acutenefs of its angles and fides, then, paffing into the nature of fire, it fuffers no further difcerption. For no fpecies is ever able to produce mutation or paffivity, or any kind of alteration, in that which is fimilar and the fame with itfelf: but as long as it paffes into fomething elfe, and the more imbecil contends with the more powerful, it will not ceafe to be diffolved.

Again, when the leffer are comprehended in the greater many, and the few being lacerated are extinguifhed,—if they are willing to pass into the idea of the conquering nature, they cease to be extinguished, and air becomes generated from fire, and water from air. But if, when this transition is accomplished, the composite opposes any of the other species, the agitated parts will not cease to be diffolved, till, on account of their diffoluble subtiftence being every way impelled, they fly to their kindred nature; or being vanquished, and becoming one from many, similar to their vanquisher, they abide with the victor in amicable conjunction. But, in confequence of these paffions, they all of them mutually change the receptacles which they once possible. For the multitude of each kind is diffinguished, according to its proper

proper place, through the motion of its recipient feat. But fuch as become diffimilar to each other are borne along through the agitation to the place of the natures to which they are fimilar. Such bodies, therefore, as are unmixed, and the first, are generated from fuch causes as these. But that other genera are naturally inherent in these forms, is owing to the composition of each element; which not only from the first produces a triangle, together with magnitude, but alfo fuch things as are greater and lefs: and this fo many in number as there are different kinds in the forms themfelves. And hence, thefe being mingled in themfelves, and with each other, produce an infinite variety; which it is proper he fhould contemplate who is about to employ affimilative reasons in the investigation of nature. He, therefore, who does not apprehend in what manner, and in conjunction with what particulars, the motion and composition of these take place, will find many impediments in the remaining part of this difputation. And thefe indeed we have already partly difcuffed; but a part ftill remains for our inveftigation.

And, in the first place, motion is by no means willing to refide in fmoothnefs: for it is difficult, or rather impossible, that a thing in motion should fubfift without a mover, or a mover without that which is in motion. Hence, it is impoffible that thefe fhould be at any time equable and fmooth. And, in confequence of this, we fhould always place an abiding nature in fmoothnefs, and motion in that which is unequal and rough. Inequality, indeed, is the caufe of roughnefs: and we have already treated concerning the generation of inequality. But we have by no means explained how the feveral forts, being undistributed according to their kinds, ceafe to be moved and borne along through each other. This, therefore, must be the fubject of our prefent difcuffion. The circulation then of the universe, fince it comprehends the different forts of things in its circumference, being of a circular form, and naturally defiring to pais into union with itfelf, compreffes all things within its fpacious receptacle, and does not fuffer a void place any where to fublift. On this account, fire in the moft eminent degree penetrates through all things; and air next to this, ranking as the fecond to fire, on account of the fubtility and tenuity of its parts. And the fame reafoning muft be extended to the other elements, which are posterior to these. For such as are composed from the greatest parts leave also the greatest vacuity in their composition; but, on the contrary, fuch as are the smallest leave the

leaft

leaft vacuity. But the coalition of compreffion thrufts the fmall parts into the void fpaces of the large; and on this account, the fmall parts being placed with the large, and the former feparating the latter, but the larger being mingled with the fmaller, all of them are borne upwards and downwards to their refpective places of abode. For each, upon changing its magnitude, changes alfo its fituation. Hence, through these causes the generation of a nature contrary to fmoothness being always preferved, affords a perpetual motion of these, both at prefent and in all future periods of time.

But, in the next place, it is neceffary to understand that there are many kinds of fire : as for inftance, flame, and that which is enkindled from flame; which burns, indeed, but exhibits no light to the eyes-and which, when the flame is extinguished, abides in the ignited nature. In like manner, with refpect to air, one kind is most pure, which is denominated ether; but another most turbulent, and at the fame time obscure and dark ; and after this another namelefs kind is produced, through the inequality of the triangles. But, with refpect to water, it is in the first place twofold; one kind of which is humid, but the other fufile. The humid, therefore, through its participating fuch parts as are fmall and unequal, becomes movable, both from itfelf and another, through inequality and the idea of its figure. But that which is compofed from large and fmooth parts is more stable than this kind of water, and coalefces into a heavy body through fmoothnefs and equality of parts. But through fire entering into and diffolving its composition, in confequence of lofing its equability and fmoothnefs, it participates more of a movable nature. Hence, becoming eafily agile, driven about by the proximate air, and extended over the earth, it liquefies, which is denominated a purification of bulk, and falls upon the earth, which is called a defluxion. Again, fire flying upwards from hence, fince it does not depart into a vacuum, the proximate air being agitated, impels the moift bulk as yet movable into the feats of fire, with which at the fame time it mingles itfelf. But when the bulk becomes collectively thrust downwards, and again receives equability and fmoothnels of parts, then ' fire, the artificer of inequality, departing, the whole mass passes into a fameness with itself. And this departure of fire we denominate refrigeration; but the coalition which takes place when fire is

Instead of oute, in this part read ate.

abfent

abfent we call a concretion, and cold rigidity. But among all those which we denominate fufile waters, that which, becoming most denfe from the most attenuated and equable parts, is of a uniform kind, and participates a fplendid and yellow colour, is that most honoured and valuable possession, which is usually impelled through a rock. And a branch of gold, on account of its denfity most hard and black, is called a diamond. But that which contains parts proximate to gold, which poffeffes more than one fpecies, furpaffes gold in denfity, and participates but a fmall and attenuated part of earth, fo that it becomes of a harder nature, but from its internally poffeffing great intervals is lighter ;- this is one kind of fplendid and concrete waters, and is denominated brafs. But when an earthly nature, being mingled with this, is through antiquity feparated from other parts of the brafs, and becomes of itfelf confpicuous, it is then denominated ruit. In a fimilar manner other particulars of this nature may be investigated without much labour by the affiftance of affimilative reafons. And if any one, for the fake of relaxation, omitting for a while the fpeculation of eternal beings, fhould purfue the affimilative arguments concerning generation, and fhould by this means posses a pleafure unattended with repentance, fuch a one will establish for himfelf in life a moderate and prudent diversion.

This being admitted, let us run over the affimilative reafons concerning the particulars which yet remain for difcuffion. When fuch water then as is attenuated and moift is mingled with fire, (being denominated moift through its motion and rolling progreffion on the earth, and likewife foft, becaufe its bafes being lefs stable than those of earth easily yield to impulsion,) this, when feparated from fire and deferted by air, becomes more equable, and through the departure of these is compelled into itself: and being thus collected, if it fuffers this alteration above the earth, it becomes hail; but if upon the carth, ice; which then takes place in confequence of extreme congelation. But when it is lefs congealed, if this happens above the earth, it becomes fnow; but when upon the earth, and this from collected dew, it then becomes froft. But when many fpecies of water are mingled with each. other, the whole kind, which is ftrained from the earth through plants. is called moifture or liquor. Thefe liquors, being diffimilar on account of their mixtures, exhibit many other namelefs kinds : but four, which are of a fiery species, and which become in an eminent degree diaphanous, are allotted appellations.

appellations. And that which heats the foul in conjunction with the body is called wine. But that which is fmooth, and fegregative of the fight, and on this account fplendid, refulgent, and unctuous to the view, is an oleaginous fpecies, and is pitch, gum, oil, and other things endued with a fimilar power. Again, that which poffeffes a power of diffufing the things collected about the mouth, and this as far as nature will permit, at the fame time bringing fweetnefs with its power, is generally denominated honey. And laftly, that which diffolves the flefh by burning, is of a frothy nature, and is fecreted from all liquors, is called juice. But the fpecies of earth ftrained through water produces a ftony body in the following manner :---When collected water fails in mingling, it paffes into the form of air; but. becoming air, it returns to its proper place. Hence, as there is no vacuum, it impels the proximate air; and this, if the impulsion is weighty, being poured round the bulk of earth, becomes vehemently compreffed, and betakes itfelf to those feats from whence the new air ascended. But earth, when indiffolubly affociated with water, through the ministry of air compofes ftones: the more beautiful fort indeed being fuch as are refplendent from equal and plane parts, but the deformed being of a contrary composition. But when all the moifture is hurried away by the violence of fire, and the body by this means becomes more dry, then a fpecies of earth which is denominated fictile is produced. Sometimes, likewife, when the moifture is left behind, and the earth becomes fufile through fire, then through refrigeration a ftone with a black colour is generated. But when this fpecies of ftrained earth in a fimilar manner through mixture is deprived of much moifture, but is composed from more attenuated parts of earth, is falt and femiconcrete, and again emerges through water; then it is partly called nitre, a cathartic kind of oil, and earth, and partly falt, a fubftance moft elegantly and legitimately adapted to the common wants of the body, and most grateful to divinity. But the parts common to both thefe are not foluble by water, but through fome fuch thing are thus collected together by fire. Again, fire and air do not liquefy the bulk of earth. For fince thefe naturally confift of parts fmaller than the void fpaces of earth, they permeate through its most capacious pores without any violence, and neither fubject it to diffolution nor liquefaction. But the parts of water, because they are greater and pafs along with violence, diffolve and liquefy the mafs of earth. Hence, water

water alone diffolves earth when violently composed, but fire alone when it is properly composed; for an entrance in this case is afforded to nothing but fire.

Again, fire alone permeates the most violent affociation of the parts of water; but both fire and air diffufe themfelves through its more debile collection; air through its void, and fire through its triangular fpaces. But nothing is capable of diffolving air when collected together by violence, except it operates according to an element : but when it coheres together without force, it is refolved by fire alone. Again, bodies which are fo compofed from water and earth that the water compressed by force obstructs the void fpaces of earth, cannot in this cafe afford an ingrefs to the water externally approaching; and in confequence of this, the water flowing round fuch a body fuffers the whole mass to remain without liquefaction. But the parts of fire entering into the void fpaces of water, as water into those of earth, and influencing water in the fame manner as fire influences air, become in this cafe the caufes of liquefaction to a common body. But thefe partly poffefs lefs water than earth; fuch as the whole genus of glafs, and fuch ftones as are denominated fufile : and partly, on the contrary, they poffefs more of water; fuch as all those bodies which coalesce into waxen and vaporific fubftances. And thus we have nearly exhibited all those fpecies, which are varied by figures, communications and mutations into each other; but it is now neceffary that we fhould endeavour to render apparent the caufes through which the paffions of thefe are produced.

In the first place, then, fenfe ought always to be prefent with difcourses of this kind. But we have not yet run through the generation of flesh, and such things as pertain to flesh, together with that part of the foul which is mortal. For all these are infeparable from the passions substituting with fense, and cannot without these passions be sufficiently explained; though, indeed, even in conjunction with these, it is fearcely possible to unfold their production. We should, therefore, first of all establish other things; and then confider such things as are confequent to these. That in our disputation, therefore, the passions themselves may follow the genera in fuccession, let our first invessigations be concerning such things as pertain to body and foul. Let us then first of all inquire why fire is called hot. And the reason of this we shall be able to perceive by confidering the feparation and division of fire about our bodies:

bodies: for that this *haffion* is a certain fharpnefs is nearly evident to all. But we ought to confider the tenuity of its angles, the fharpnefs of its fides. the fmallnefs of its parts, and the velocity of its motion, through all which it becomes vehement and penetrating, and fwiftly divides that with which it meets; calling to mind for this purpose the generation of its figure. For fire, indeed, and no other nature, feparating our bodies and diffributing them into fmall parts, produces in us that paffion which is very properly denominated heat. But the paffion contrary to this, though fufficiently manifest, ought not to pass without an explanation. For the moist parts of bodies larger than our humid parts, entering into our bodies, expel the fmaller parts; but, not being able to penetrate into their receptacles, coagulate our moifture, and caufe it through equability to pass from an unequable and agitated state into one immovable and collected. But that which is collected together contrary to nature, naturally oppofès fuch a condition, and endeavours by repulsion to recall itself into a contrary fituation. In this contest and agitation a trembling and numbnefs takes place; and all this *paffion*, together with that which produces it, is denominated cold. But we call that hard to which our flesh gives way; and soft, which yields to the pressure of our flesh. And we thus denominate them with reference to each other. But every thing yields to preffure which is effablished on a small base. But that which rests on triangular bases, on account of its being vehemently firm, is of a most refifting nature; and, becaufe it is denfe in the higheft degree, ftrongly repels all oppofing preffure.

Again, the nature of heavy and light will become eminently apparent, when inveftigated together with upwards and downwards. But indeed it is by no means rightly afferted that there are naturally two certain places diftant by a long interval from each other : one denominated downwards, to which all bodies tend endued with bulk, but the other upwards, to which every thing is involuntarily impelled. For, the whole univerfe being fpherical, all fuch things as by an equal departure from the middle become extremes, ought to become naturally extremes in a fimilar manner. But the middle, being feparated from the extremes according to the fame meafures, ought to be confidered as in a fituation juft oppofite to all things. Such, then, being the natural difpofition of the world, he who places any one of the above-mentioned particulars either upwards or downwards, will juftly appear

by

536

by fuch appellations to wander from the truth. For the middle place in the universe cannot be properly called either naturally downwards or upwards, but can only be denominated that which is the middle. But that which environs is neither the middle, nor contains any parts in itfelf differing from each other with reference to the middle, nor does it poffefs any thing correfoonding to an opposite direction. But to that which is every way naturally fimilar how can any one with propriety attribute contrary names? For, if there be any thing folid, and endued with equal powers, in the middle of the univerfe, it will never tend to any part of the extremities, through the perfect fimilitude which they every where poffers. But if any one moves about this folid in a circle, he will often ftand with his feet in oppofite directions, and will denominate the fame part of himfelf both upwards and downwards. Since the universe, therefore, as we have just observed, is of a spherical figure, it is not the part of a prudent man to affert that it has any place which is either upwards or downwards. But from whence these names originate, and, in what things exifting, we transfer them from thence to the universe, it is our buliness at present to investigate. If any one then should be feated in that region of the world which for the most part belongs to the nature of fire, and to which it on all fides tends, and if fuch a one fhould acquire a power of taking away the parts of fire, and of caufing them to balance; or, placing the parts in a fcale, fhould violently feize on the beam, and, drawing out the fire, hurl it downwards into diffimilar air-it is evident that in this cafe a lefs portion of fire would be more eafily compelled than a greater. For, when two things are at the fame time fulpended from one power, it is neceffary that the lefs quantity fhould more eafily, and the greater with lefs readinefs, yield to the oppreffive force. Hence, the one is called heavy, and tending downwards; but the other light, and tending upwards. The fame thing happens to us who inhabit this terreftrial region. For, walking on the earth, and feparating the terrene genera from each other, we fometimes violently hurl a fragment of earth into its diffimilar the air, and this with a motion contrary to its nature; each region at the fame time retaining that to which it is allied. But the lefs portion, being more eafily impelled into a diffimilar place than the larger, first of all yields to the violence : and this we denominate light, and call the place into which it is violently hurled, upwards. But the paffion contrary to this we denominate heavy, VOL. 11. 3 Z

heavy and downwards. Hence it is neceffary that thefe fhould mutually differ from each other; and this through the multitude of genera obtaining contrary fituations. For that which is light in one place is contrary to that which is light in a contrary fituation : likewife the heavy to the heavy, the downward to the downward, and the upward to the upward. For all thefe will be found to be contrary, transverse, and every way different from each other. One thing however is to be understood concerning all these, that the progression of each, tending to its kindred nature, renders the proceeding body heavy, and the place to which it tends, downwards. But this progression fion influences in a different manner such as are differently affected. And thus have I unfolded the causes of these passions.

But again, any one who beholds the caufe of the *µaffion* of fmoothnefs and roughnefs may be able to difclofe it to others. For hardnefs mingled with inequality produces the one, and equality with denfity the other. But among the common *paffions* which fubfift about the whole body, that is the greateft which is the caufe of pleafure and pain : to which may be added, fuch as through the parts of the body detain the fenfes, and have in thefe pleafures and pains as their attendants. In this manner, then, we fhould receive the caufes of every paffion, both fenfible and infenfible, calling to mind the difunctions which we formerly established concerning the easily and difficultly movable nature. For in this manner we ought to purfue all fuch things as we defign to apprehend. Thus, with respect to that which is naturally eafily movable, when any flender paffion falls upon it, the feveral parts give themfelves up to each other in a circular progreffion, producing the fame effect; till, having arrived at the feat of prudence, they announce the power of that by which the paffion was induced. But that which is affected in a contrary manner, being ftable and without a circular progression, alone fuffers; but does not move any of the parts to which it is proximate. Hence, the parts not mutually giving themfelves up to each other, and the first passion in them becoming immovable with refpect to the whole animal, that which fuffers is rendered void of fenfation. This laft cafe indeed happens about the bones and hairs, and fuch other parts of our composition as are mostly terrene. But the circumftances belonging to the eafily movable nature take place about the inftruments of fight and hearing, through their containing the moft abundant power of fire and air. But it is neceffary to confider the peculiarities of

of pleafure and pain as follows :- When a *paffion* is produced in us contrary to nature, and with violence and abundance, then it becomes the occafion of pain. And again, when a *µaffion* conformable to our nature is excited, and this with abundance, it caufes pleafure and delight. But that which is contrary to these produces contrary effects. But a *paffion*, the whole of which is induced with great facility, is eminently indeed the object of fenfation, but does not participate of pleafure and pain. And of this kind are the halfions fublifting about the fight; to which, as we have above afferted, our body is For fuch objects as exhibit fections and burnings, and other *haffions* allied. of a fimilar kind, do not caufe pain to the fight; nor, again, does the fight receive pleafure when it is reftored to the fame form as before. But the most vehement and clear fensations influence it with pain, fo far as it fuffers any thing, firikes against, or comes into contact with, any object. For no violence fubfifts in the feparation or concretion of the fight. But fuch bodies as are composed from larger parts, and which fcarcely yield to impulsion, when they transfer the induced motions to the whole body, contain in themfelves pleafures and pains; when varied, indeed, pains, but, when reftored to their priftine fituation, pleafures. Again, whatever bodies in a fmall degree receive departures and evacuations of themfelves, accompanied at the fame time with abundant repletions,—fince fuch bodies have no fenfe of evacuation, but are fensible of repletion, they do not affect the mortal part of the foul with any pain, but, on the contrary, influence it with the greatest delight. And the truth of this is manifest from the fensation of fweet odours. fuch bodies as fuffer an abundant variation, and are fcarce able to be reftored in a finall degree to their priftine fituation, are totally affected in a manner contrary to those we have just described. And the truth of this is manifest in the burnings and fections of the body. And thus have we nearly difcuffed the common paffions of the whole body, and the appellations affigned to the caufes by which they are produced.

Let us now endeavour to explain those paffions which take place in particular parts of our bodies, and relate from whence they arife, and by what caufes they are induced. In the first place, let us if possible complete what we formerly left unfinished concerning humours; fince these are passions fublishing about the tongue. But these, as well as many other things, appear to be produced by certain separations and concretions; and, besides this, to

3 Z 2

employ

employ fmoothnefs and roughnefs more than the reft. For certain fmall veins extend themfelves from the tongue to the heart, and are the meffengers of taftes. And when any thing falls upon thefe fo as to penetrate the moift and delicate texture of the flefh, which through its terrestrial nature is moderately liquefied, it then contracts and dries the veins. Hence, if thefe penetrating fubftances are of a more rough nature, they produce a fharp taste; but, if less rough, a four taste. But such things as are purgative of these veins, and which wash away whatever is found adhering to the tongue, if they accomplifh this in an immoderate degree, fo as to liquefy fomething of the nature of the tongue, fuch as is the power of nitre ;-all fuch as thefe are denominated bitter. But whatever is fubordinate to this property of nitre, and purges in a more moderate degree, appears to us to be falt, without the roughness of bitterness, and to be more friendly to our nature. Again, fuch things as, communicating with the heat of the mouth, and being rendered fmooth by it, heat also in their turn the mouth-and which through their lightnefs are elevated towards the fenfes of the head, at the fame time dividing whatever they meet with in their afcent ;---all thefe, through powers of this kind, are denominated tharp. But fometimes thefe feveral particulars, becoming attenuated through rottenness, enter into the narrow veins, and compel the interior parts, as well the terrene as those containing the fymmetry of air, to be mingled together by moving about each other; and when mingled caufe fome of the parts to glide round, fome to enter into others, and when entered to render them hollow and extended; and this in the place where a hollow moifture is extended about the air. This moifture too being at one time terrene and at another pure, a moift orbicular receptacle of air is produced from the hollow water. But that which is produced from pure water is on all fides diaphanous, and is called a bubble. On the contrary, that which owes its fubliftence to a more earthly moifture, and which is at the fame time agitated and elevated, is denominated fervid, and a fermentation. But the caufe of all these passions receives the appellation of acute. And a paffion contrary to all that has been afferted concerning thefe proceeds from a contrary caufe. But when the composition of the things entering into moift fubftances is naturally accommodated to the quality of the tongue, it polifhes and anoints its afperities, and collects together or relaxes fuch parts as were either affembled or diffipated contrary to nature, and reftores

reftores them to their proper and natural habit. Hence, all fuch fubftances are pleafant and friendly to every one, become the remedies of violent paffions, and are denominated fweet. And thus much may fuffice concerning particulars of this kind.

There are, however, no fpecies about the power of the noftrils: for all odours are but half begotten. But it happens to no fpecies to be commenfurate with any odour. And our veins, with refpect to particulars of this kind, are too narrow to admit the genera of earth and water, and too broad to receive those of fire and air; and hence no one ever perceives an odour of any one of thefe. But odours are always produced from the madefaction, corruption, liquefaction or evaporation of the elements. For, water becoming changed into air, and air into water, odours are generated in the middle of thefe. And all odours are either fmoke or mifts. But, of thefe, that which paffes from air into water is a mift; but that which is changed from water into air, fmoke. And hence it comes to pass that all odours are more attenuated than water, and more denfe than air. But the truth of this is fufficiently evident when any one, in confequence of a difagreeable fmell, violently draws his breath inwards; for then no odour is wafhed off, but breath alone follows unattended by fmell. On this account, the varieties of thefe fubfift without a name; as they are neither composed from many nor from fimple fpecies. But two of these alone receive an appellation, the pleafant and the difagreeable : the latter of which difturbs and violently affaults all that cavity which lies between the top of the head and the navel; but the former allures this part of the body, and by its amicable ingrefs preferves it in a condition accommodated to its nature. But we ought to confider the third fenfitive part of our composition, hearing, in such a manner that we may explain through what caufes the paffions with which it is converfant fubfift. We ought, therefore, entirely to define voice a certain pulfation of the air, penetrating through the ears, brain, and blood, as far as to the foul: and we fhould call the motion arifing from hence, which commences from the head and ends in the feat of the liver, hearing. When this motion is fwift, a fharp found is produced; but, when flow, a flat found. And the former of thefe is equal and fmooth, but the latter rough. Many voices too produce a great found, but a fmall found is the refult of a few. But it is neceffary that we should speak about the symphonies of these in the subsequent part of

of this difcourfe. The fourth fensitive genus now remains for our difcuffion; which contains in itfelf an abundant variety, all which are denominated colours. But colour is a flame flowing from bodies, and poffeffing parts commenfurate to the fight with refpect to perception. But we have already confidered the caufes from which fight is produced. It appears then that we may now fpeak of colours according to affimilative reafons as follows:

Of things which, proceeding from other parts, fall on the fight, fome are greater, others lefs, and others equal to the parts of the fight. Such as are equal, therefore, cannot be perceived; and thefe we denominate diaphanous. But, among fuch as are larger or finaller, fome of these feparate, but others mingle the fight, fimilar to the operations of heat and cold about the flefh, or to things four, acute and hot about the tongue. But things which affect the fight in this manner are called black and white; which are indeed the paffions of those particulars we have just related, being their fisters, as it were, and the fame with them in a different genus; but which, neverthelefs, through these causes appear to be different. We should, therefore, fpeak of them as follows :-- That the colour which is fegregative of the fight is white; but that which produces an effect contrary to this, black. But when a more acute motion, and of a different kind of fire, falls upon and feparates the fight, as far as to the eyes, at the fame time violently propelling and liquefying the transitions of the eyes, then a collected fubstance of fire and water flows from thence, which we denominate a tear; but the motion itself is a fire meeting with the fight in an opposite direction. And, indeed, when a fire, leaping as it were from a certain corrufcation, becomes mingled with another fire, penetrating and extinguished by moifture, from this mixture colours of all-various kinds are produced. In this cafe we call the paffion a vibrating fplendour, and that which produces it fulgid and rutilating. But a kind of fire which fubfifts in the middle of thefe, arriving at the moifture of the eyes, and becoming mingled with it, is by no means fplendid: but in confequence of the rays of fire being mingled through moisture, and producing a bloody colour, we denominate the mixture red. And when fplendour is mingled with red and white, it generates a yellow colour. But to relate in what measure each of these is mingled with each, is not the bufinefs of one endued with intellect, even though he were well informed in this affair; fince he would not be able to produce concerning thefe either a neceffary 5

neceffary or an affimilative reafon. But red, when mingled with black and white, produces a purple colour. And when to thefe, mingled and burnt together, more of black is added, a more obfcure colour is produced. Α ruddy colour is generated from the mixture of yellow and brown; but brown from the mixture of black and white. A pallid colour arifes from the mingling of white and yellow. But that which is fplendid conjoined with white, and falling upon abundance of black, gives completion to an azure colour. And azure mingled with white generates a gray colour. But from the temperament of a ruddy colour with black, green is produced. All the reft will be nearly evident from thefe, to any one who, imitating the former mixtures, preferves affimilative reafons in his difcourfe. But if any one undertakes the investigation of these, for the fake of the things themselves, such a one must be ignorant of the difference between a divine and human nature : fince a God is indeed fufficient for the purpose of mingling many things into one, and of again diffolving the one into many, as being at the fame time both knowing and able: but there is no man at prefent who is able to accomplifh either of thefe undertakings, nor will there ever be one in any future circulation of time. But all thefe which thus naturally fubfift from neceffity, were affumed in the things which are generated by the artificer of that which is most beautiful and best, when he produced a felffufficient and most perfect God; employing, indeed, causes which are fubfervient to thefe, but operating himfelf in the beft manner in all generated natures. On this account it is requilite to diffinguish two species of causes; the one neceffary, but the other divine. And we fhould inquire after the divine caufe in all things, for the fake of obtaining a bleffed life in as great a degree as our nature is capable of receiving it; but we fhould investigate the neceffary caufe for the fake of that which is divine. For we fhould confider, that without these two species of causes, the objects of our pursuit can neither be underftood nor apprehended, nor in any other way become participated. But fince to us at prefent, as to artificers, matter lies in fubjection, the genera. of caufes ferving as prepared materials from which the remaining difcourfe is to be woven, let us again return with brevity to our first discussions, and swiftly. pats from thence to the place at which we are now arrived; by this means endeavouring to establish an end and summit to our disputation, which may harmonize with its beginning.

Indeed,

Indeed, as we afferted towards the commencement of our difcourfe, when all fenfible natures were in a difordered ftate of fubfiftence, Divinity rendered each commenfurate with itfelf, and all with one another, and connected them as much as poffible with the bands of analogy and fymmetry. For then nothing participated of order except by accident; nor could any thing with propriety be diffinguished by the appellation which it receives at prefent. fuch for inftance as fire, water, and the reft of this kind. But the demiurgus in the first place adorned all these, afterwards established the world from their conjunction, and rendered it one animal, containing in itfelf all mortal and immortal animals. And of divine natures, indeed, he himfelf became the author; but he delivered to his offspring the junior Gods the fabrication of mortal natures. Hence, thefe imitating their father's power, and receiving the immortal principle of the foul, fashioned posterior to this the mortal body, affigned the whole body as a vehicle to the foul, and fabricated in it another mortal fpecies of foul, poffeffing dire and neceffary paffions through its union with the body. The first indeed of these passions is pleasure, which is the greatest allurement to evil; but the next is pain, which is the exile of good. After these follow boldness and fear, those mad advisers; anger, hard to be appeafed; hope, which is cafily deceived; together with irrational fenfe. and love, the general invader of all things. In confequence, therefore, of mingling thefe together, the junior Gods neceffarily composed the mortal race. And religioufly fearing left the divine nature fhould be defiled through this rout of moleftations more than extreme neceffity required, they lodged the mortal part, feparate from the divine, in a different receptacle of the body; fabricating the head and breaft, and placing the neck between as an ifthmus and boundary, that the two extremes might be feparate from each other.

In the breaft, therefore, and that which is called the thorax, they feated the mortal genus of the foul. And as one part of it is naturally better, but another naturally worfe, they fabricated the cavity of the thorax; diffributing this receptacle in the woman different from that of the man, and placing in the middle of there the midriff or diaphragm. That part of the foul, therefore, which participates of fortitude and anger, and is fond of contention, they feated nearer the head, between the midriff and the neck; that becoming obedient to reafon, and uniting with it in amicable conjunction,

junction, it might together with reafon forcibly reprefs the race of defires, whenever they thould be found unwilling to obey the mandates of reafon, iffuing her orders from her lofty place of abode. But they established the heart, which is both the fountain of the veins, and of the blood, which is vehemently impelled through all the members of the body in a CIRCULAR PRO-GRESSION, in an habitation corresponding to that of a fatellite; that when the irafcible part becomes inflamed, reafon at the fame time announcing that fome unjust action has taken place externally, or has been performed by fome one of the inward defires, then every thing fensitive in the body may fwiftly through all the narrow pores perceive the threatenings and exhortations, may be in every respect obedient, and may thus permit that which is the best in all thefe to maintain the fovereign command.

But as the Gods previoufly knew that the palpitation of the heart in the expectation of dreadful events, and the effervescence of anger, and every kind of wrathful inflation, would be produced by fire, they implanted in the body the idea of the lungs, artificially producing them as a guardian to the heart. And, in the first place, they rendered them foft and bloodlefs, and afterwards internally perforated with hollow pipes like a fponge; that through their receiving fpirit and imbibing moifture, they might become themfelves refrigerated, and might afford respiration and remission to the heart in its excessive heat. Hence they deduced the arteries as fo many canals through the fubftance of the lungs; and placed the lungs like a foft thicket round the heart, that when anger rages in it with too much vehemence it may leap into fubmiffion, and becoming refrigerated may be fubject to lefs endurance, and may be able together with anger to yield with greater facility to the authority of reason. But they feated that part of the foul which is defiderative of meats and drinks, and fuch other things as it requires through the nature of body, between the præcordia and the boundary about the navel; fabricating all this place as a manger fubfervient to the nutriment of the body, and binding in it this part of the foul as a ruffic and favage animal. But it is neceffary that this part fhould nourish its conjoined body, if the mortal race has a neceffary existence in the nature of things. That this part, therefore, might be always fed at the manger, and might dwell remote from the deliberative part, molefting it in the fmalleft degree with its tumults and clamours, and permitting it, as that which is most excellent in our composition, to confult in quiet for the

VOL. II.

common

common utility of the whole animal; on this account the Gods affigned it fuch a fubordinate fituation.

However, as the Divinity perceived that this part would not be obedient to reafon, but that it would naturally reject its authority in confequence of every fenfible impreffion, and would be animaftically hurried away by images and phantafms both by day and night-confidering this, he conflituted the form of the liver, and placed it in the habitation of this defiderative part; composing it dense and smooth, splendid and sweet, and at the same time mingled with bitternefs; that the power of cogitations, defcending from intellect into the liver as into a mirror receiving various refemblances and exhibiting images to the view, might at one time terrify this irrational nature by employing a kindred part of bitternefs and introducing dreadful threats, fo that the whole liver being gradually mingled might reprefent bilious colours, and becoming contracted might be rendered throughout wrinkled and rough; and that, befides this, it might influence its lobe, ventricle, and gates, in fuch a manner, that by difforting and twifting fome of thefe from their proper difpolition, and obstructing and shutting in others, it might be the caufe of damages and pains. And again, that at another time a certain infpiration of gentlenefs from the dianoëtic power, by defcribing contrary phantafms and affording reft to bitternefs, through its being unwilling either to excite or apply itfelf to a nature contrary to its own; and befides this, by employing the innate fweetnefs of the liver, and rendering all its parts properly difpofed, finooth, and free, might caufe that part of the foul which refides about the liver to become peaceful and happy, fo that it might even refrain from excefs in the night, and employ prophetic energies in fleep: fince it does not participate of reafon and prudence. For those who composed us, calling to mind the mandate of their father, that they fhould render the mortal race as far as possible the best, fo constituted the depraved part of our nature that it might become connected with truth; establishing in this part a prophetic knowledge of future events. But that Divinity affigned divination to human madnets may be fufficiently inferred from hence; that no one while endued with intellect becomes connected with a divine and true prophecy; but this alone takes place either when the power of prudence is fettered by fleep, or fuffers fome mutation through difeafe, or a certain enthufiaftic energy: it being in this cafe the employment of prudence to understand

understand what was afferted either fleeping or waking by a prophetic and enthuliastic nature; and fo to distinguish all the phantastic appearances as to be able to explain what and to whom any thing of future, paft, or prefent good is portended. But it is by no means the office of that which abides and is still about to abide in this enthusiastic energy, to judge of itself either concerning the appearances or vociferations. Hence it was well faid by the antients, that to transact and know his own concerns and himfelf, is alone the province of a prudent man. And on this account the law orders that the race of prophets fhould prefide as judges over divine predictions; who are indeed called by fome diviners-but this in confequence of being ignorant that fuch men are interpreters of ænigmatical visions and predictions, and on this account should not be called diviners, but rather prophets of divinations. The nature, therefore, of the liver was produced on this account, and feated in the place we have mentioned, viz. for the fake of prediction. And befides this, while each of fuch like parts is living, it poffeffes clearer indications; but when deprived of life it then becomes blind, and the divination is rendered too obfcure to fignify any thing fufficiently clear. But an inteffine which fubfifts for the fake of the liver, is placed near it on the left hand, that it may always render the liver fplendid and pure, and prepared like a mirror for the apt reception of refemblant forms. On this account, when certain impurities are produced about the liver through bodily difeafe, then the fpleen, purifying thefe by its rarity, receives them into itfelf from its being of a hollow and bloodlefs contexture. Hence, being filled with purgations, it increases in bulk, and becomes inflated with corruption. And again, when the body is purified, then becoming depreffed it fublides into the fame condition as before. And thus we have fpoken concerning both the mortal and divine part of the foul, and have related where they are fituated, in conjunction with what natures, and why they are feparated from each other. That all this indeed is unfolded according to indifputable truth, can only be afferted when confirmed by the vocal atteftation of a God: but that it is fpoken according to affimilative reafons, we fhould not hefitate to evince both now and hereafter by a more diligent difcuffion of what remains.

It is proper to investigate in a fimilar manner the fubsequent part of our difputation; and this is no other than to relate how the other members

4 🔺 2

547

of

of the body were produced. It is becoming, therefore, in the most eminent degree that they should be composed as follows: Those artificers then of our race well knew that we fhould be intemperate in the affumption of meats and drinks, and that we fhould often through gluttony use more than was moderate and neceffary. Hence, left fudden deftruction should take place through difeafe, and the mortal race thus becoming imperfect should prefently ceafe to exift; the Gods previoufly perceiving this confequence, fabricated in the lower parts a hollow receptacle for the purpofe of receiving a fuperabundance of folid and liquid aliment; and, befides this, invefted it with the fpiral folds of the inteftines, left, the affumed nutriment fwiftly paffing away, the body fhould as fwiftly require an acceffion of new aliment; and, by producing an infatiable appetite through gluttony, fhould render our whole race void of philosophy and the mufes, and unobedient to the most divine part of our composition. But the nature of the bones and flesh, and other things of this kind, was conftituted as follows : In the first place, the generation of the marrow ferves as a principle to all thefe. For the bonds of that life which the foul leads through its conjunction with the body, being woven together in the marrow, become the stable roots of the mortal race. But the marrow itfelf is generated from other particulars. For, among the triangles, fuch as are first, being unbent and fmooth, were particularly accommodated to the generation of fire and water, air and earth ; and the Divinity feparating each of these apart from their genera, and mingling them commenfurate with each other, composing by this means an all-various mixture of feeds for the mortal race, produced from thefe the nature of the marrow. But afterwards diffeminating in the marrow, he bound in it the genera of fouls. Befides, in this first distribution, he immediately separated as many figures and of fuch kinds as it was requifite the marrow fhould poffers. And he fashioned indeed that part of the marrow in which as in a cultivated field the divine feed was to be fown, every way globular, and called it synstator, or the brain; becaufe in every animal, when it has acquired the perfection of its form, the receptacle of this fubftance is denominated the head. But he diffinguished with round and at the fame time oblong figures, that receptacle of the body which was defined to contain the remaining and mortal part of the foul; and was willing that the whole fhould receive the appellation of marrow. And befides this, hurling from thefe as anchors the bonds of all the

the foul, he fabricated the whole of our body about the fubftance of the marrow, and invefted it on all fides with a covering of bones.

But he thus composed the nature of the bones. In the first place, bruising together pure and fmooth earth, he mingled and moiftened it with marrow; after this he placed it in fire, then merged it in water, then again feated it in fire, and after this dipped it in water. And thus, by often transferring it into each, he rendered it incapable of being liquefied by both. Employing therefore this nature of bone, he fashioned like one working with a wheel a bony fphere, and placed it round the brain; leaving a narrow paffage in the fphere itself. And befides this, forming certain vertebræ from bone about the marrow of the neck and back, he extended them like hinges, commencing from the head and proceeding through the whole cavity of the body. And thus he preferved all the feed, by fortifying it round about with a ftony veftment. He likewife added joints, for the purpose of motion and inflection, employing the nature of that which is diffinguished by difference in their fabrication, as this is endued with a certain middle capacity. But, as he thought that the habit of the bony nature would become more dry and inflexible than it ought to be, and that, when it became heated and again cooled, it would in confequence of ulceration fwiftly corrupt the feed which it contained, on this account he fashioned the genus of nerves and flesh; that the nerves, by binding all the other members, and becoming ftretched and remitted about those hinges the vertebræ, might render the body apt to become inflected and extended as occasion required : but that the flesh might ferve as a covering from the heat and a protection from the cold; and, befides this, might defend it from falls, in the fame manner as external fupports, gently and cafily yielding to the motions of the body. He likewife placed a hot moifture in the nature of the flefh, that, becoming in fummer externally dewy and moift, it might afford a kindred refrigeration to the whole body; and that again in winter, through its own proper fire, it might moderately repel the externally introduced and furrounding cold. When, therefore, the plastic artificer of our bodies had perceived all this through a dianoëtic energy, having mingled and harmonized together water, fire, and carth, and added to the mixture a fharp and falt ferment, he gradually compoled fort and fucculent flefh.

But he mingled the nature of the nerves from bone and unfermented flefh, 6 composing

composing one middle substance from the power of both, and tingeing it with a yellow colour. And on this account it comes to pass that the power of the nerves is more intenfe and vifcous than that of the flefh, but more foft and moift than that of the bones. Hence, the Divinity bound the bones and marrow to each other with the nerves, and afterwards invefted them all fupernally with the flesh, as with a dark concealing shade. Such of the bones, therefore, as were the most animated he covered with the least flesh; but fuch as were the least animated he invested with flesh the most abundant and denfe. And, befides this, he added but a fmall quantity of flefh to the joints of the bones, except where reason evinces the necessity of the contrary: and this left they fhould be a hindrance to the inflections, and retard the motions of the body; and again, left in confequence of their being many and denfe, and vehemently compressed in one another, they should cause through their folidity a privation of fenfe, a difficulty of recollection, and a remiffion of the dianoëtic energy. On this account he invefted with abundance of flesh the bones of the groin, legs, loins, the upper part of the arms, and that part which extends from the elbow to the wrift, and fuch other parts of our bodies as are without articulation, together with fuch inward bones as through the paucity of foul in the marrow are defitute of a prudential energy. But he covered with a lefs quantity of flefh fuch bones as are endued with prudence: unlefs, perhaps, the flefhy fubstance of the tongue, which was produced for the fake of fenfation, is to be excepted. In other parts, the cafe is fuch as we have defcribed. For a nature which is generated and nourifhed from neceffity can by no means at one and the fame time receive a denfe bone and abundant flesh, united with acuteness of fenfation. But this would be most eminently the cafe with the composition of the head, if all thefe were willing to coalefce in amicable conjunction : and the human race, poffeffing a flefhy, nervous, and robuft head, would enjoy a life twice as long, or ftill more abundantly extended, healthy and unmolefted, than that which we at prefent poffefs.

Again, in confequence of thole artificers of our generation confidering whether they fhould fabricate our race poffeffing a life more lafting indeed but of a worfe condition, or of a fhorter extent but of a more excellent condition, it appeared to them that a fhorter but more excellent life was by all means to be preferred to one more lafting but of a fubordinate condition. Hence

Hence they covered the head with a thin bone, but did not inveft it with flefh and nerves, becaufe it was deflitute of inflections. On all thefe accounts, therefore, the head was added to the body as the most fensitive and prudent, but at the fame time by far the most imbecil part of all the man. But through thefe caufes, and in this manner, the Divinity placing the nerves about the extreme part of the head, conglutinated them in a circle about the neck, (after a certain fimilitude), and bound with them those losty cheekbones fituated under the countenance; but he diffeminated the reft about all the members, connecting joint with joint. Befides, those adorners of our race ornamented us with the power of the mouth, teeth, tongue, and lips, and this for the fake of things which are at the fame time both neceffary and the beft; producing ingreffion for the fake of neceffaries, but egreffion for the fake of fuch as are beft. Every thing, indeed, which being introduced affords nutriment to the body, is neceffary; but the ftream of words flowing forth externally, and becoming fubfervient to prudence, is the most beautiful and beft of all effluxions. Befides, it was not possible that the head could remain without any other covering than that of a naked bone, through the extremities of heat and cold in the different feafons; nor, again, could it become the inftrument of knowledge when invefted with darknefs, dulled, and without fenfation, through the perturbation of flefh. Hence, a part of a flefhy nature, not entirely dried, and furpaffing the refidue, was feparated from the reft; and which is now denominated a membrane. This membrane paffing into union with itfelf, and bloffoming about the moifture of the brain, circularly invefts the head. But the moifture flowing under the futures of the head irrigates this membrane, and, caufing it to close together at the crown, connects it, as it were, in a knot. But an all-various fpecies of futures is generated through the power of the circulations and the nutriment; the variety becoming greater when these oppose each other with greater violence, but lefs when they are in a flate of lefs opposition. All this membrane the divine artificer of our bodies circularly pierced with fire. And hence, becoming as it were wounded, and the moifture externally flowing through it, whatever is moift, hot, and pure, paffes away; but whatever is mingled from the fame natures as the membrane itfelf, this, in confequence of receiving an external production, becomes extended into length. and poffeffes a tenuity equal to the punctuation of the membrane. But this fubstance.

fubftance, from the flownefs of its motion, being continually thruft back by the externally furrounding fpirit, again revolves itfelf under the membrane, and there fixes the roots of its progreffion. Hence, from thefe paffions the race of hairs fprings up in the membrane of the head, being naturally allied to, and becoming, as it were, the reins of this membrane, at the fame time that they are more hard and denfe through the compreffion of cold. For every hair, when it proceeds beyond the membrane, becomes hardened through cold. After this manner, then, the artificer planted our head with hairs, employing for this purpofe the caufes which we have mentioned.

But at the fame time he underftood by a dianoëtic energy, that inftead of flefh a light covering was neceffary for the fecurity of the brain; which might fufficiently fhade and protect it like a garment from the extremities of heat and cold, but by no means hinder the acuteness of fensation. But that comprehension of nerve, fkin, and bone about the fingers, being a mixture of three fubftances, and becoming of a drier nature, produced one common hard membrane from the whole. These indeed were the ministrant caufes of its fabrication; but the most principal caufe confists in that cogitation which produced this membrane for the fake of future advantage. For those artificers of our nature well knew that at fome time or other women and other animals would be generated from men; and that nails would be of the greateft advantage in many refpects to the bestial tribes. Hence they impreffed in men the generation of nails, at the very period of their production. But from this reafon, and through these causes, they planted the fkin, hairs, and nails in the members fituated at the extremities of the body. However, as all the parts and members of a mortal animal were generated in alliance with each other, and neceffarily poffeffed their life in the union of fire and fpirit, left the animal becoming refolved and exhaufted by thefe fhould fwiftly decay, the Gods devifed the following remedy :-- For mingling a nature allied to the human with other forms and fenfes, they planted, as it were, another animal; fuch as those mild trees, plants, and feeds, which, being now brought to perfection through the exercise of agriculture, are friendly to our nature; though prior to this they were of a ruftic kind, being more antient than fuch as are mild. For whatever participates of life we may juftly and with the greateft rectitude denominate an animal. But this which we are now fpeaking of participates the third fpecies of foul, which we

we place between the præcordia and the navel : and in which there is neither any thing of opinion, reafon, or intellect ; but to which a pleafant and painful fenfe, together with defires, belongs. For it continually fuffers all things. But when it is converted in itfelf, about itfelf, and, rejecting external, employs its own proper motion, it is not allotted by its generation a nature capable of confidering its own concerns by any thing like a reafoning energy. On this account it lives, and is not different from an animal ; but, becoming flably rooted, abides in a fixed position, through its being deprived of a motion originating from itfelf.

But when those superior artificers of our composition had implanted all thefe genera for the purpofe of fupplying nutriment to our nature, they deduced various channels in our body as in a garden, that it might be irrigated as it were by the acceffion of flowing moifture. And, in the first place, they cut two occult channels under the concretion of the fkin and flefh, viz. two veins in the back, according to the double figure of the body on the right hand and the left. These they placed with the spine of the back, so as to receive the prolific marrow in the middle, that it might thus flourish in the most eminent degree; and, by copiously flowing from hence to other parts, might afford an equable irrigation. But after this, cutting the veins about the head, and weaving them with each other in an opposite direction, they feparated them; inclining fome from the right hand to the left hand parts of the body, and fome from the left to the right, that the head, together with the fkin, might be bound to the body, as it is not circularly divided with nerves about its fummit; and befides this, that the paffion of the fenfes might from each of these parts be deduced on all fides through the whole of the body. In this manner, then, they deduced an aqueduct from hence; the truth of which we fhall cafily perceive by affenting to the following pofition. That all fuch things as are composed from leffer parts are able to contain fuch as are greater; but fuch as confift from greater cannot inveft those composed from leffer parts. But fire, among all the genera of things, is conftituted from the finalleft parts. Hence, it penetrates through water, earth, and air, and the composites from these; and this in such a manner, that nothing can reftrain its pervading power. The fame muft be underflood of that ventricle our belly; that it is able to retain the intromitted meat and drink, but cannot ftay fpirit and fire, becaufe thefe confift of fmaller parts than those from VOL. II. which 4 B

which the belly is composed. These, therefore, the Divinity employed for the purpose of producing an irrigation from the belly into the veins; weaving from fire and air a certain flexible fubstance like a bow-net, and which poffeffes a twofold gibbofity at the entrance. One of thefe he again wove together, divided into two parts; and circularly extended thefe parts from the curvatures like ropes through the whole body, as far as to the extremities of the net. All the interior parts therefore of the net-work he compofed from fire; but the gibbofities and the receptacle itfelf from air. And laftly, receiving these, he disposed them in the animal new formed as follows :-In the first place, one of the gibbous parts he affigned to the mouth ; but, as the gibbofity of this part is twofold, he caufed one part to pafs through the arteries into the lungs, but the other along with the arteries into the belly. But having divided the other gibbous part according to each of its parts, he caufed it to pafs in common to the channels of the nofe, fo that, when the one part does not reach the mouth, all its ftreams may be filled But he placed the other cavity of this gibbous fubftance about from this. the hollow parts of the body; and caufed the whole of this at one time to flow together gently into the gibbous parts, as they were of an aërial texture, and at another time to flow back again through the convex receptacles. But he fo difpofed the net, as being compofed from a thin body, that it might inwardly penetrate and again emerge through this fubftance. Befides this, he ordered that the interior rays of fire fhould follow in continued fucceffion. the air at the fame time paffing into each of the parts; and that this fhould never ceafe to take place as long as the mortal animal continued to fubfift. But, in affigning an appellation to a motion of this kind, we denominate it expiration and refpiration. But all this operation and the whole of this paffion in our nature take place in the body by a certain irrigation and refrigeration conducive to our nutriment and life. For, when the breath paffes inwardly and outwardly, an interior fire attends it in its courfe; and being diffufed through the belly, when it meets with folid and liquid aliments, it reduces them to a flate of fluidity; and, distributing them into the smallest parts, educes them as from a fountain through the avenues of its progression: pouring thefe fmall particles into the channels of the veins, and deducing rivers through the body as through a valley of veins.

But let us again confider the paffion of refpiration, and inveftigate through what
what caufes it was generated, fuch as we perceive it at prefent. We fhould confider it, therefore, as follows :- As there is no fuch thing as a vacuum into which any thing in motion can enter, and as breath paffes from us externally, it is evident to every one that it cannot proceed into a void fpace, but must thrust that which is nearest to it from its proper feat; that again the repulfed nature must always expel its neighbour; and that from a necesfity of this kind every thing which is impelled into that feat from which the emitted breath is excluded, muft, when it has entered into and filled up this fpace, attend on the breath in its progreffion. And all this must take place like the revolution of a wheel, through the impoffibility of a vacuum. Hence, when the breaft and the lungs externally difmifs the breath, they are again replenished through the air which furrounds the body entering into and riding round the avenues of the flefh. But the air being again externally difmiffed, and flowing round the body, impels the refpiration inward, through the paffages of the mouth and noftrils.

But we fhould eftablish the following as the cause from which the origin of thefe was derived. Every animal belonging to the universe possesses a heat in the veins and the blood, like a certain fountain of fire; and this heat we compared to a bow-net, extended through the middle of the body, and wholly woven from fire; all fuch things as are external being composed from air. But it must be confessed that heat naturally proceeds externally into a region to which it is allied. But as there are two progressions, one according to the body externally, but the other again according to the mouth and noftrils, hence, when the breath is impelled inward, it again thrufts back that by which it was impelled. And that which is drawn back, meeting with fire, becomes heated; while that which is exhaled becomes refrigerated. In confequence, therefore, of the heat being changed, and fuch things as fublift according to the other transition becoming more hot, and that again which is more fervid verging to its own nature, --- hence, one thing flrikes against and repels another in its course; and as they always suffer and mutually influence each other in the fame manner, leaping this way and that in a circular progreffion, they give birth to the expiration and refpiration of the breath. But in this manner also we should investigate the causes of those paffions which arife from medical cupping-glaffes, from drinking, from things

4 B 2

things violently hurled, whether upwards or on the ground; together with fuch founds as appear fwift and flow, fharp and flat, and which are at one time borne along unharmonioufly, through the diffimilitude of the motion which they caufe within us, and at another time attended with harmony, through the fimilitude of motion which they produce. For, the motions of fuch founds as are prior and fwifter ceafing, and proceeding to a nature fimilar to their own, are comprehended by fuch as are flower, which now fucceed to the fwifter, and fet them again in motion. But during their comprehension of thefe they do not difturb them by introducing another motion, but lead on the beginning of the flower lation in conformity to that of the fwifter. And thefe, adapting to themfelves a fimilitude of the ceafing motion, mingle together one paffion from the union of fharp and flat. From whence they afford pleafure to the unwife, but joy to the wife, through the imitation of divine harmony fubfifting in mortal motions. And, indeed, with refpect to all effluxions of water, the falling of thunder, and the wonderful circumstances observed in the attraction of amber, and of the Herculean flone :----in all thefe, nothing in reality of attraction takes place : but, as a vacuum cannot any where be found, and these particulars mutually impel each other,-hence, from the individuals when feparated and mingled together tending to their proper feats, and from these passions being interwoven with each other, fuch admirable effects prefent themfelves to the view of the accurate inveftigator. And indeed refpiration (from whence our difcourfe originated) is generated from these causes, and after this manner, as we afferted above. For fire, dividing the aliment and becoming elevated internally, attending at the fame time the breath in its afcent, fills the veins from the belly by this joint elevation; and this in confequence of drawing upwards from thence the diffected parts: fo that by this means, through the whole body of every animal, the ftreams of nutriment are abundantly diffused. But the parts which are recently diffected and feparated from their kindred natures, fome of which are fruits and others grafs, and which were produced by Divinity for the nourifhment of our bodies, poffefs all-various colours through their mixture with each other: but for the most part a red colour predominates in them, whose nature is fabricated from a section of fire, and an abstersion in a moift fubftance. And hence, the colour of that which flows about the body 9

body is fuch as appears to the fight, and which we denominate blood; being the pafture of the flefh and of the whole body; from whence an irrigation becoming every where diffuted, it copioufly replenifhes all the exhaufted parts.

But the manner of impletion and evacuation is produced in the fame way as in the univerfe the lation of every thing takes place, viz. from that caufe through which every kindred nature tends to itfelf. For the natures by which we are externally invefted perpetually liquefy and diffribute our bodies, difmiffing every fpecies to its kindred form. But the fanguineous parts, being diffributed and comprehended within us, as is the cafe with every animal conftituted under the heavens, are compelled to imitate the local motion of the univerfe. Each, therefore, of the divided parts within us, being borne along to its kindred nature, replenishes again that which is void. But when the effluxions furpais the acceffions, a corruption of the whole animal enfues; and when the contrary takes place, it receives an increase. The recent composition, therefore, of every animal possesfing new triangles, like fhips formed from timbers unimpaired by age, caufes a ftrong enclofure of them within each other : but the whole of its delicate bulk unites in amicable conjunction, as being generated from most recent marrow, and nourished in milk. Those triangles, therefore, from which the liquid and folid aliments are composed, approaching externally, and being received into the animal, as they are more antient and imbecil than its own proper triangles, are vanquifhed and cut in pieces by the new triangles: and the animal is rendered of a large fize, through its being nourifhed from a multitude of fimilar parts. But when it relaxes the root of its triangles, in confequence of becoming wearied and tamed, through many contefts with many particulars in a long courfe of time; then it is no longer able to reduce by fection the received aliment into a fimilitude of itfelf, but its own parts become eafily diffipated by the natures which are externally introduced. Hence the whole animal, becoming by this means vanquifhed, decays; and the paffion itfelf is denominated old age. But the end of its existence then arrives, when the jointly harmonized bonds of the triangles about the marrow no longer poffefs a detaining power, but becoming feparated through the wearine's of labour, defert the bonds of the foul. The foul, however, in this cafe being concealed in a flate according to nature, flies away with pleafure and delight. For every thing contrary to nature is painful; but that which happens naturally

rally is pleafant. Hence, the death which is produced through wounds and difeafe is painful and violent; but that which is caufed from old age, proceeding to an end according to nature, is of all deaths the most free from labour, and is rather accompanied with pleafure than pain.

But it must be obvious to every one from whence difeases are produced. For, fince there are four genera from which the body is composed, viz. carth, fire, water, and air, the unnatural abundance and defect of thefe, and a translation from their own proper to a foreign feat, in confequence of which each of these does not receive that which is accommodated to its nature, together with all fuch circumftances as thefe, produce contentions and difeafe. For, each of these fubfifting and being transferred in a manner contrary to nature, fuch things as were formerly heated become cold, fuch as were once dry become moift, fuch as were light heavy, and every thing receives all poffible mutations. 'For we affert that when the fame thing approaches to, and departs from, the fame, in the fame manner, and according to analogy, then alone it permits that which is the fame to abide healthy and fafe. But that which inordinately wanders, either in acceding or departing, produces all-various mutations, difeafes, and infinite corruptions. Likewife a fecond apprehension of difeases may be obtained by any one who is fo difpofed, from the fecond compositions of things conftituted according to nature. For, fince the concretion of marrow, bone, flefh, and nerve, is derived from thefe, as likewife the blood, though from a different mode of coalition, hence many events happen in the fame manner as those we have mentioned above ; but the greatest and most fevere difeases subfift as follows: When the generation of these fecond compositions takes place inversely, then they become fubject to corruption. For the flesh and nerves are naturally generated from blood : the nerves indeed from fibres, through the alliance fubfifting between these; but the flesh from the coalition of that which when feparated from the fibres paffes into a flate of concretion. But that fubstance again which arifes from nerves and flesh, being glutinous and fat, increases at the fame time by nutrition the flesh, which for the most part fubfifts about the nature of the bones; and likewife the bone itfelf, with which the marrow is furrounded. And again, that which trickles through the denfity of the bones, being the most pure kind of the triangles, and the most fmooth and unctuous, while it drops and distils from the bones, irrigates the the marrow. And hence, when each particular fublifts in this manner, a healthy condition of body is produced; but a difeafed condition when the contrary is the cafe. For, when the flefh becoming liquefied again transmits the confumption into the veins, then the blood, together with spirit, becoming abundant and all-various in the veins, diversified with colours and density, and infected with acid and falt qualities, generates all-various bile, corruption, and phlegm. And all these, being again thus generated and corrupted, in the first place destroy the blood itself; and this, no longer affording nutriment to the body, is every where borne along through the veins, without observing a natural order in its circulations. But these indeed are unfriendly to each other, because they derive no mutual advantages from the properties with which each is endued. They likewife war upon the natural habit of the body, and its perfeverance in its proper state, by introducing diffolutions and liquefactions.

A most antient portion of flesh, therefore, when it is liquefied and rendered difficult of digeftion, grows black through antient burning; but through its being entirely macerated it becomes bitter, and adverse to all the other parts of the body which are not yet infected with corruption. And then indeed the black colour poffeffes fharpnefs inftead of bitternefs; that which was bitter becoming more attenuated : and the bitternefs, being again tinged with blood, poffeffes a redder colour; but, from the black which is mingled with this, becomes of a bilious nature. But, befides this, a yellow colour is mingled with bitternefs, when the new flefh liquefies through the fire fubfifting about flame. And, indeed, either fome phyfician will affign to all thefe the common appellation of bile, or fome one who is able to confider things many and diffimilar, and to behold one genus in many particulars deferving one denomination. But fuch other things as are called fpecies of bile receive an appellation peculiar to each, according to colour. But corruption ($\chi \omega \rho$), which is the defluxion or whey of the blood, is gentle and mild: but that which is the fediment of black and fharp bile is of a ferocious and ruftic nature, when it is mingled through heat with a faline power. And a fubftance of this kind is denominated acid phlegm. But a portion of recent and delicate flesh is often liquefied together with the air, and is afterwards inflated and comprehended by moifture : and from this paffion bubbles are produced, which taken feparately are invisible on account of their smallnefs

nefs, but which, when collected into a large bulk, become confpicuous, and poffefs a white colour on account of the generation of froth. And we denominate all this liquefaction of delicate flesh, and which is woven together with fpirit, white phlegm. But we call the fediment of recent phlegm tears and fweat; together with every thing of that kind into which the body is every day refolved. And all thefe, indeed, become the inftruments of difeafe, when the blood does not naturally abound from liquid and folid aliment, but increases from contraries in fuch a manner as to violate the laws of nature. When, therefore, any part of the flesh is cut off, but at the same time the foundation of it remains, the calamity poffeffes but half its power; for it is capable of being eafily recovered. But when that which binds the flefh to the bones becomes difeafed, and the blood flowing from it and the nerves no longer nourifhes the bones and binds the flefh, but, inftead of being fat, fmooth, and glutinous, becomes rough and falt through bad diet; then, in confequence of fuffering all this, and being feparated from the bones, it is refrigerated under the flesh and nerves. For the flesh, falling from its roots, leaves the nerves bare, and drenched in a falt humour; and hence, gliding again into the circulation of the blood, it increases the number of the difeafes we have already defcribed. And these paffions, indeed, which sublish about the body, are of a grievous nature : but those which precede these are ftill more afflictive and troublefome. But this takes place when the bone through the denfity of the flefh does not admit fufficient refpiration, but, being heated through filthinefs, becomes rotten, receives no nutriment, but falls upon the flefh, which is on the contrary refrigerated; and the flefh again falls on the blood, fo that by this means difeafes more fevere than the former are produced. But the extremity of all maladies then happens, when the nature of the marrow becomes difeafed through fome defect or excefs: for then it produces the most vehement and fatal difeases; as the whole nature of the body is in this cafe neceffarily diffipated and diffolved.

But it is requifite after this to underftand that the third fpecies of difeafes receives a tripartite division. For one of the divisions is produced by fpirit, the other by phlegm, and the other by bile. For when the lungs, those diffributive guardians of the breath, being obfructed by defluxions, cannot afford a free paffage to the breath; then, as there is no emiffion of the breath in one part, and more is received into another part than is requisite, the parts without

without refrigeration become rotten; but that which is received in too great abundance paffing through the veins, difforts them and liquefies the diaphragm fituated in the middle of the body: and thus ten thousand grievous difeafes arife from hence, together with an abundance of fweat. But often, when the flefh becomes feparated within the body, breath is produced; and this being incapable of departing externally, caufes the fame torments as the breath when entering from without. It produces, however, the greatest pains, when furrounding the nerves and neighbouring veins it inflates them, and ftretches and difforts the ligaments and nerves continued from the back. And thefe difeates, from the itretching and inflating paffion, are denominated tenfions and contortions from behind; and of which it is difficult to find a cure. For, fevers taking place diffolve thefe difeafes in a most eminent de-But the white phlegm poffeffing a difficulty of refpiring externally, gree. through the fpirit of the bubbles, variegates the body indeed in a milder nature, yet fprinkles it with white fpots, and generates other difeafes of a fimilar kind. But when this white phlegm is mingled with black bile, and becomes diffipated about the circulations of the head, which are of a most divine nature, then it difturbs thefe circulations; and if this happens in fleep, the perturbation is lefs violent; but if to those who are awake, it cannot without difficulty be expelled. And as this is a difease of a facred nature, it is most justly denominated a facred difeafe.

A fharp and falt phlegm is the fountain of all fuch difeafes as are produced by a defluxion of humours: and becaufe the places into which this phlegm flows posses an omniform variety, it generates all-various difeases. But whatever parts of the body are faid to be inflated are thus affected from the inflammation of bile : which, when it expires, produces externally various tumours from its fervid nature; but, when inwardly reftrained, generates many inflammatory difeafes. It is, however, then greateft, when, being mingled with pure blood, it removes the fibres from their natural order, which are fcattered into the blood for this purpofe, that it may poffers tenuity and denfity in a commenfurate degree; and that it may neither through heat (as it is of a moift nature) flow from the thin body, nor, when becoming more denfe, and of confequence more unadapted to motion, may fcarcely be able to flow back again through the veins. The fibres, therefore, are very ferviceable on this occasion, which if any one should collect together in the VOL. II. blood 4 C

blood when dead, and in a state of frigidity, all the remaining blood would become diffused; and when poured forth they would be fwiftly coagulated, together with the cold by which they are furrounded. But as the fibres poffefs this power in the blood, and the bile naturally becomes antient blood. and is again liquefied from flesh into this, such things as are hot and moist falling gradually the first of all, hence it becomes collected together through the power of the fibres. When the bile is coagulated and violently extinguished, it causes a tempest and tremour within. But when it flows more abundantly, vanquifhing the fibres by its own proper heat, and becoming fervid in an inordinate degree, it then preferves the body: and if it retains its conquering power to the end, it penetrates into the marrow; and burning the bonds of the foul, as if they were the cables of a ship, diffolves her union, and difmiffes her from thence entirely free. But when it flows with lefs abundance, and the body becoming liquefied oppofes its paffage, then finding itself vanquished, it either falls through the whole body, or, being compelled through the veins into the upper or lower belly, like one flying from a feditious city, it escapes from the body and introduces defluxions, dyfenteries, or gripings of the inteftines, and all difeafes of a fimilar kind. When the body, therefore, is eminently difeafed through excefs of fire, it then labours under continued burnings and fever; but when through excefs of air, under quotidian fevers · under tertian through water, becaufe water is more fluggish than fire and air; under quartan, through excess of earth. For earth, being the most fluggish of all these, is purified in quadruple periods of time; and on this account introduces quartan fevers, which it is fcarcely poffible to difperfe. And in this manner are the difeafes of the body produced.

But the difeafes of the foul, which fubfilt through the habit of the body, are as follow:—We muft admit that the difeafe of the foul is folly, or a privation of intellect. But there are two kinds of folly; the one madnefs, the other ignorance. Whatever paffion, therefore, introduces either of thefe muft be called a difeafe. And we fhould eftablifh exceffive pleafures and pains as the greateft difeafes of the foul. For, when a man is too much elevated with joy or depreffed with grief, while he haftens immoderately either to retain the one or to fly from the other, he is not able either to perceive or hear any thing properly, but is agitated with fury, and is very little capable.

of exercifing the reafoning power. But he who poffeffes a great quantity of fluid feed about the marrow, and who, like a tree laden with a fuperabundance of fruit, riots in the excefs,-fuch a one being influenced by many pains and pleafures in defires, and their attendant offspring, will be agitated with fury for the greatest part of his life through mighty pleasures and pains : and though the foul of fuch a one will be difeafed and unwife, from the body with which it is connected, yet it will be falfely confidered not as difeafed. but as voluntarily bad. But in reality venereal intemperance for the most part becomes a difease of the soul, through a habit of one kind, from the tenuity of the bones, in a body fluid and moift. And, indeed, it may be nearly afferted, that all intemperance of pleafures of whatever kind, and all difgraceful conduct, is not properly blamed as the confequence of voluntary guilt. For no one is voluntarily bad: but he who is depraved becomes fo through a certain ill habit of body, and an unfkilful education. But thefe two circumftances are inimical to all, and productive of a certain ill. And again, the foul, when influenced by pain, fuffers much depravity from this through the body. For, when fharp and falt phlegm, and likewife bitter and bilious humours, wandering through the body, are prevented from paffing forth externally, but, revolving inwardly, mingle their exhalations with the circulation of the foul; in this cafe they produce all-various difeafes of the foul, in a greater and lefs degree, and lefs and more numerous. They are introduced, indeed, to three feats of the foul; and according to the diverfity of the place, each generates all-various species of difficulty and forrow, of boldnefs and timidity, and, still further, of oblivion and indocility. But, befides this, the vicious manners of cities, and difcourfes both private and public, often contribute to increase this malady: nor are any disciplines taught in the early part of life, which might ferve as remedies for fuch mighty ills, And thus all fuch as are vicious are fo through two involuntary caufes; the exiftence of which we should always rather ascribe to the planters than to the things planted, and to the educators rather than to the educated. We thould, therefore, endeavour to the utmost of our abilility, by education, ftudies, and disciplines, to fly from vice, and acquire its contrary, virtue. But these particulars, indeed, belong to another mode of discourse.

Again, therefore, with refpect to the contrary of thefe, it is now proper

4 C 2

to

to explain in a becoming manner by what culture, and from what caufes, we may preferve both the body and dianoëtic energies of the foul. For it is more just to discourse concerning good things than of fuch as are evil. But every thing good is beautiful; and that which is beautiful is not deflitute of meafure. An animal, therefore, which is about to be beautiful and good, must posses commensuration. But, perceiving certain small particulars of things commenfurate, we fyllogize concerning them; while at the fame time we are ignorant of fuch as are greatest and the chief. For, indeed, no fymmetry and immoderation is of greater confequence with refpect to health and difeafe, virtue and vice, than that of the foul towards the body. But we confider no circumstance of these; nor do we perceive that when a more imbecil and inferior form is the vehicle of a robuft and every way mighty foul, and when, on the contrary, thefe two pafs into a flate of concretion, then the whole animal cannot fubfift in a beautiful manner: for it is incommenfurate through the want of the greatest fymmetry. But the animal whofe composition is contrary to this, affords a spectacle to him who is able to behold it, of all fpectacles the most beautiful and lovely. When the body, therefore, poffeffes legs immoderately large, or any other member furpaffing its just proportion, and becomes through this incommensurate with itself, it is rendered at the fame time bafe, in the endurance of labour fuffers many molestations and many convulsions, and through an aggregation of accidents becomes the caufe of innumerable maladies to itfelf. The fame too must be underftood concerning that composition of body and foul which we denominate an animal. As, for inftance, that when the foul in this composite is more robuft than the body, and poffeffes it raging and transported, then the foul, agitating the whole of it, inwardly fills it with difeafes; and, when the vehemently applies herfelf to certain difciplines, caufes it to liquefy and wafte away. Laftly, when the foul employs herfelf in teaching and literary contefts, both in public and private, through a certain ambitious ftrife, then inflaming the body, the diffolves its conftitution; and befides this, introducing diffillations of humours, the deceives the most part of those who are called phyficians, and induces them to confider these effects as proceeding from contrary caufes.

But again, when a mighty body and above measure frigid is conjoined with a fmall

a fmall and imbecil dianoëtic part, fince there are naturally twofold defires in man, one of aliment through the body, but the other of prudence through the most divine part of our nature ;- in this cafe, the motions of that which is more powerful prevail, and increase that which is their own : but render the dianoëtic part of the foul dull, indocile, and oblivious, and thus produce ignorance, which is the greateft of all difeafes. But this one thing alone is the health and fafety of both-neither to move the foul without the body, nor the body without the foul; that, being equally balanced in their mutual contentions, the health of the whole composite may be preferved. Hence. he who vehemently applies himfelf to the mathematics, or to any other dianoëtic exercife, fhould alfo employ the motion of the body, and be familiar with gymnaftic. And again, he who is careful in forming his body aright fhould at the fame time unite with this the motions of the foul, employing mufic and all philosophy; if he is to be rendered fuch a one as can be juftly called beautiful, and at the fame time truly good. In the fame manner, too. we ought to take care of the parts of the body, imitating the form of the whole. For when the body, through fuch things as are introduced from without, is inflamed and refrigerated, and is again rendered dry and moift by externals, and fuffers every thing confequent to these affections; then, if any one in a quiet flate gives up his body to motions, he will be vanquished by them and diffolved. But if any one imitates that nature which we called the nourisher of the universe, fo as never to fuffer the body to be in a state of reft, but perpetually moves and agitates it throughout, he will then affift the internal and external motions according to nature; and, in confequence of a moderate agitation, will reduce into order and adorn the wandering paffions and parts of the body, according to their alliance with each other. Such a one. indeed, as we faid in our former difcourfe about the univerfe, will not, by placing foe against foe, fuffer war and difease to be produced in the body; but, combining friend with friend, will thus render the body healthy and found. But, of all motions, that is the beft in any nature which takes place in itfelf from itfelf: for this is particularly allied to the dianoëtic motion of the univerfe. But that motion is of the worfe kind which is produced by another. And that is the worft of all motions, when the body, being in a recumbent and quiet flate, is moved by others according to parts. And hence.

hence, of all the purgations and concretions of the body, that is the beft which fubfifts through gymnastic. The next to this is that which takes place through eafy carriage, whether in a fhip or any other convenient vehicle. But the third fpecies of motion is only to be used when vehemently necessary, and at no other time by any one endued with intellect: and this is that medical motion which is performed by pharmaceutical purgations. For difeafes, unlefs they are extremely dangerous, are not to be irritated by medicines. For every composition of difeases is in a certain respect similar to the nature of animals. And indeed the affociation of the animal nature is allotted stated periods of life; both the whole genus, and every individual, containing in itfelf a fatal term of living, feparate from the paffions which neceffity produces. For the triangles, which from the very beginning poffeffed the power of each animal, are fufficiently able to cohere together for a certain time: but life beyond this period cannot be extended to any one. The fame mode of composition likewife fublishes about difeases; which if any one deftroys by medicine before the fated time, he will only produce great difeafes from finall ones, and many from a few. On this account it is neceffary to difcipline all fuch maladies by proper diet, according as every one's leifure will permit; and to avoid irritating by medicines a most difficult difeafe. And thus much may fuffice concerning the common animal and its corporeal part; and how thefe may be difciplined and governed in fuch a manner as to produce a life according to reason in the most eminent degree.

But that which is defined to govern, ought much more and by far the first to be furnished as much as possible with such materials as may render it capable, of disciplinative straight from a manner the most beautiful and the best. To discuss accurately indeed particulars of this kind would require a treatise folely confined to such a discussion: but if any one flightly confiders this affair in a manner confequent to what has been above delivered, such a one by thus proceeding will not unfeasionably arrive at the end of his pursuit. We have often then previously afferted that there are three species of soul within us, triply distributed; and that each has its own proper motions. And we shall now, therefore, briefly affirm, that when any one of them is in a torpid state, and rests from its own proper motions, it ucceffarily becomes

comes most imbecil; but that, when it is employed in convenient exercises, it becomes most vigorous and robust. We should, therefore, be careful that the several species may preferve their motions, so as to be commensurate to each other.

With refpect, however, to the most principal and excellent species of the foul, we fhould conceive as follows : that Divinity affigned this to each of us as a dæmon ; and that it relides in the very fummit of the body, elevating us from earth to an alliance with the heavens; as we are not terrestrial plants, but bioffoms of heaven. And this indeed is most truly afferted. For, from whence the first generation of the foul arole, from thence a divine nature being fufpended from our head and root, directs and governs the whole of our corporeal frame. In him, therefore, wno vehemently labours to fatisfy the cravings of defire and ambition, all the conceptions of his foul muft be neceffarily mortal; and himfelf as much as poffible must become entirely mortal, fince he leaves nothing unaccomplished which tends to increase his perifhable part. But it is neceffary that he who is feduloufly employed in the acquifition of knowledge, who is anxious to acquire the wifdom of truth. and who employs his most vigorous exertions in this one purfuit ;- it is perfectly neceffary that fuch a one, if he touches on the truth, fhould be endued with wildom about immortal and divine concerns ; and that he fhould participate of immortality, as far as human nature permits, without leaving any part of it behind. And befides, as fuch a one always cultivates that which is divine, and has a dæmon most excellently adorned residing in his effence, he must be happy in the most eminent degree. The culture of all the parts is indeed entirely one, and confifts in affiguing proper nutriment and motion to each. But the motions which are allied to the "wine part of our nature are the dianoëtic energies and circulations of the annuerte. Thefe, therefore, each of us ought to purfue; reftoring in tuch a manner those revolutions in our head (which have been corrupted by our wanderings about generation), through diligently confidering the harmonies and circulations ot the univerfe, that the intellective power may become affimilated to the object of intelligence, according to its antient nature. For, when thus affimilated, we thall obtain the end of the beft life proposed by the Gods to men, both at pretent and in all the future circulations of time. And now that

that diffutation which we announced at the beginning concerning the univerfe, as far as to the generation of man, has almost received its confummation. For we shall briefly run over the generation of other animals, and this no further than necessity requires : for thus any one may appear to himfelf to preferve a convenient measure in such a disputation. Let us, therefore, speak concerning these as follows :

Those who on becoming men are timid, and pais through life unpairly. will according to affimilative reafoning be changed into women in their fecond generation. And at the fame time through this caufe the Gods devifed the love of copulation ; compoling an animal or animated fubflance, and placing one in us, but another in the female nature. But they produced each in the following manner. That proceffion of liquid aliment which paffes through the lungs under the reins into the bladder, and which being compreffed by the breath is emitted externally,-this the Gods receiving, they deduced it after the manner of a pipe into the concrete marrow, through the neck and fpine of the back : and this is what we called feed in the former part of our difcourfe. But this, in confequence of being animated and receiving refpiration, produces in the part where it refpires a vital defire of effluxion ; and thus perfects in us the love of begetting. On this account, that nature which fublifts about the privy parts of men, becoming refractory and imperious, and as it were an animal unobedient to reafon, endeavours through raging defire to poffers abfolute fway. In like manner the privities and matrix of women, forming an animal defirous of procreating children, when it remains without fruit beyond the flower of its age, or for a fill more extended period, fuffers the reftraint with difficulty and indiguation; and wandering every way through the body, obstructs the passage of the breath, does not permit refpiration to take place, introduces other extreme difficula ties, and caufes all-various difeafes; till the defire and love of the parts educe feed like fruit from a tree : but, when educed, they featter it into the matrix as into a field. Hence women conceive animals invifible at first through their imallnefs, rude and unformed ; when they become large, through difperfion of the feed, nourifh them within ; and, laftly, leading them into light perfect the generation of animals. In this manner, therefore, is the generation of women and every thing female performed. But the tribe of birds fucceeds

THE TIM EUS.

· fucceeds in the next place, fashioned from men, and receiving wings instead of hairs. These are produced from such men as are indeed innocent, but inconftant and light ; who are curious about things fituated on high ; but are fo infatuated as to think, from the testimony of the fight, that demonfrations about things of this kind are the moft firm and incontrovertible of all. But the pedeftrian and favage tribe of animals was generated from men ', who being entirely defitute of philosophy, never elevated their eyes to any object in the heavens; and this becaufe they never employed the circulations in the head, but followed the impulse of those parts of the foul which rule in the belly and breaft. Hence from ftudies of this kind drawing the anterior members and head to the ground, they fix them through proximity of nature in the earth. Befides this, they poffers long and all-various heads; as the circulations of each are through idlenefs comprefied and broken: and by this means their race becomes quadruped and multiped; the Divinity affigning many feet to fuch as are more unwife, that they may be more ftrongly drawn towards the earth. But the most unwife of these, and every way extending all their body on the earth, as if there was no longer any occasion of feet, the Gods generated without feet, and defined them to creep on the earth. The fourth genus is the aquatic, which was produced from fuch men as were flupid and ignorant in the most remarkable degree ; and whom those transformers of our nature did not think deferving of a pure refpiration, on account of their poffeffing a foul in an unpurified flate, through extreme tranfgreffion. And hence they impelled them into the turbid and profound refpiration of water, inftead of the attenuated and pure requiration of air : from whence the genus of fifh and oyfters, and the multitude of all aquatic animals arofe ; and who are allotted habitations in the lait regions of the universe, as the punishment of extreme ignorance. And thus after this manner, both formerly and now, animals migrate into each other ; while they are changed by the lofs and acquifition of intellect and folly. Our difcourfe, therefore, concerning the univerfe has now obtained its conclution.

Place here generating mortal animals through the human fool, after its policy in the heavens, leads it into the pedefirian genus, that he may completely produce man; and after this has afted erroneoufly, he again leads it into the winged, and into the pedefirian and favage genus, and afterwards into the aquatic.

VOL. II.

For

For this world, comprehending and receiving its completion from mortal and immortal animals, is thus rendered a vifible animal containing vifible natures, the image of an intelligible God, fenfible, the greateft and beft, the most beautiful and perfect; being no other than this one and only-begotten heaven.

THE END OF THE TIMEUS.