PART 1.

OF MAN.

CHAP. I. Of Sense.

Concerning the Thoughts of man, I will consider them first singly, [3] and afterwards in Trayne, or dependance upon one another. Singly, they are every one a Representation or Apparence, of some quality, or other Accident of a body without us; which is commonly called an Object. Which Object worketh on the Eyes, Eares, and other parts of mans body; and by diversity of working, produceth diversity of Apparences.

The Originall of them all, is that which we call Sense; (For there is no conception in a mans mind, which hath not at first, totally, or by parts, been begotten upon the organs of Sense.) The rest are derived from that originall.

To know the naturall cause of Sense, is not very necessary to the business now in hand; and I have else-where written of the same at large. Nevertheless, to fill each part of my present method, I will briefly deliver the same in this place.

The cause of Sense, is the Externall Body, or Object, which presseth the organ proper to each Sense, either immediately, as in the Tast and Touch; or mediately, as in Seeing, Hearing, and Smelling: which pressure, by the mediation of Nerves, and other strings, and membranes of the body, continued inwards to the Brain, and Heart, causeth there a resistance, or counter-pressure, or endeavour of the heart, to deliver itself: which endeavour because *Outward*, seemeth to

be some matter without. And this seeming, or fancy, is that which men call Sense; and consisteth, as to the Eye, in a Light, or Colour figured; To the Eare, in a Sound; To the Nostrill, in an Odour, To the Tongue and Palat, in a Savour, And to the rest of the body, in Heat, Cold, Hardnesse, Softnesse, and such other qualities, as we discern by Feeling. All which qualities called Sensible, are in the object that causeth them, but so many several motions of the matter, by which it presseth our organs diversly. Neither in us that are pressed, are they any thing else, but divers motions; (for motion, produceth nothing but motion.) But their apparence to us is Fancy, the same waking, that dreaming. And as pressing, rubbing, or striking the Eye, makes us fancy a light; and pressing the Eare, produceth a dinne; so do the bodies also we see, or hear, produce the same by their strong, though unobserved action. For if those Colours, and Sounds, were in the Bodies, or Objects that cause them, they could not bee severed from them, as by glasses, and in Ecchoes by reflection, wee see they are; where we know the thing we see, is in one place; the apparence, in another. And though at some certain distance, the reall, and very object seem invested with the fancy it begets in us; Yet still the object is one thing, the image or fancy is another. So that Sense in all cases, is nothing els but originall fancy, caused (as I have said) by the pressure, that is, by the motion, of externall things upon our Eyes, Eares, and other organs thereunto ordained.

But the Philosophy-schooles, through all the Universities of Christendome, grounded upon certain Texts of Aristotle, teach another doctrine; and say, For the cause of Vision, that the thing seen, sendeth forth on every side a visible species (in English) a visible shew, apparition, or aspect, or a being seen; the receiving whereof into the Eye, is Seeing. And for the cause of Hearing, that the thing heard, sendeth forth an Audible species, that is, an Audible aspect, or Audible being seen; which entring at the Eare, maketh Hearing. Nay for the cause of Understanding also, they say the thing Understood sendeth forth intelligible species, that is, an intelligible being seen; which comming into the Understanding, makes us Understand. I say not this, as disapproving the use of Universities: but because I am to speak hereafter of their office in a Common-wealth, I must let you see on all occasions by the way, what things would be amended in them; amongst which the frequency of insignificant Speech is one.

CHAP. II. Of IMAGINATION.

That when a thing lies still, unlesse somewhat els stirre it, it will lye still for ever, is a truth that no man doubts of. But that when a thing is in motion, it will eternally be in motion, unless somewhat els stay it, though the reason be the same, (namely, that nothing can change it selfe,) is not so easily assented to. For men measure, not onely other men, but all other things, by themselves: and because they find themselves subject after motion to pain, and lassitude, think every thing els growes weary of motion, and seeks repose of its own accord; little considering, whether it be not some other motion, wherein that desire of rest they find in themselves, consisteth. From hence it is, that the Schooles say, Heavy bodies fall downwards, out of an appetite to rest, and to conserve their nature in that place which is most proper for them; ascribing appetite, and Knowledge of what is good for their conservation, (which is more than man has) to things inanimate, absurdly.

When a Body is once in motion, it moveth (unless something els hinder it) eternally; and whatsoever hindreth it, cannot in an instant, but in time, and by degrees quite extinguish it: And as wee see in the water, though the wind cease, the waves give not over rowling for a long time after; so also it happeneth in that motion, which is made in [5] the internall parts of a man, then, when he Sees, Dreams, &c. For after the object is removed, or the eye shut, wee still retain an image of the thing seen, though more obscure than when we see it. And this is it, the Latines call *Imagination*, from the image made in seeing; and apply the same, though improperly, to all the other senses. But the Greeks call it *Fancy*; which signifies *apparence*, and is as proper to one sense, as to another. IMAGINATION therefore is nothing but *decaying sense*; and is found in men, and many other living Creatures, aswell sleeping, as waking.

The decay of Sense in men waking, is not the decay of the motion made in sense; but an obscuring of it, in such manner, as the light of the Sun obscureth the light of the Starres; which starrs do no less exercise their vertue by which they are visible, in the day, than in the night. But because amongst many stroaks, which our eyes, eares, and other organs receive from externall bodies, the predominant onely is sensible; therefore the light of the Sun being predominant, we are not affected with the action of the starrs. And any object being removed from our eyes, though the impression it made in us remain; yet other objects more present succeeding, and working on us, the Imagination of the past is obscured, and made weak; as the voyce of a man is in the noyse of the day. From whence it followeth, that the longer the time is, after the sight, or Sense of any object, the weaker is the Imagination. For the continual change of mans body, destroyes in time the parts which in sense were moved: So that distance of time, and of place, hath one and the same effect in us. For as at a great distance of place, that which wee look at, appears dimme, and without distinction of the smaller parts; and as Voyces grow weak, and inarticulate: so also after great distance of time, our imagination of the Past is weak; and wee lose (for example) of Cities wee have seen, many particular Streets; and of Actions, many particular Circumstances. This decaying sense, when wee would express the thing it self, (I mean fancy it selfe,) wee call Imagination, as I said before: But when we would express the decay, and signifie that the Sense is fading, old, and past, it is called Memory. So that Imagination and Memory, are but one thing, which for divers considerations hath divers names.

Much memory, or memory of many things, is called Experience. Againe, Imagination being only of those things which have been formerly perceived by Sense, either all at once, or by parts at severall times; The former, (which is the imagining the whole object, as it was presented to the sense) is simple Imagination; as when one imagineth a man, or horse, which he hath seen before. The other is Compounded; as when from the sight of a man at one time, and of a horse at another, we conceive in our mind a Centaure. So when a man compoundeth the image of his own person, with the image of the actions of an other man; as when a man imagins himselfe a Hercules, or an Alexander, (which happeneth often to them that are much taken with reading of Romants) it is a compound imagination, and properly but a Fiction of the mind. There be also other Imaginations that rise in men, (though waking) from the great impression made in sense: As from gazing upon the Sun, the impression leaves an image of the Sun before our eyes a long time after; and from being long and vehemently attent upon Geometricall Figures, a man shall in the dark, (though awake) have the Images of Lines, and Angles before his eyes: which kind of Fancy hath no particular name; as being a thing that doth not commonly fall into mens discourse.

The imaginations of them that sleep, are those we call Dreams. And Dreams. these also (as all other Imaginations) have been before, either totally, or by parcells in the Sense. And because in sense, the Brain, and Nerves, which are the necessary Organs of sense, are so benummed in sleep, as not easily to be moved by the action of Externall Objects, there can happen in sleep, no Imagination; and therefore no Dreame, but what proceeds from the agitation of the inward parts of mans body; which inward parts, for the connexion they have with the Brayn, and other Organs, when they be distempered, do keep the same in motion; whereby the Imaginations there formerly made, appeare as if a man were waking; saving that the Organs of Sense being now benummed, so as there is no new object, which can master and obscure them with a more vigorous impression, a Dreame must needs be more cleare, in this silence of sense, than are our waking thoughts. And hence it cometh to passe, that it is a hard matter, and by many thought impossible to distinguish exactly between Sense and Dreaming. For my part, when I consider, that in Dreames, I do not often, nor constantly think of the same Persons, Places, Objects, and Actions that I do waking; nor remember so long a trayne of coherent thoughts, Dreaming, as at other times; And because waking I often observe the absurdity of Dreames, but never dream of the absurdities of my waking Thoughts; I am well satisfied, that being awake, I know I dreame not; though when I dreame, I think my selfe awake.

And seeing dreames are caused by the distemper of some of the inward parts of the Body; divers distempers must needs cause different Dreams. And hence it is, that lying cold breedeth Dreams of Feare, and raiseth the thought and Image of some fearfull object (the motion from the brain to the inner parts, and from the inner parts to the Brain being reciprocall:) And that as Anger causeth heat in some parts of the Body, when we are awake; so when we sleep, the over heating of the same parts causeth Anger, and raiseth up in the brain the Imagination of an Enemy. In the same manner; as naturall kindness, when we are awake causeth desire; and desire makes heat in certain other parts of the body; so also, too much heat in those parts, while wee sleep, raiseth in the brain an imagination of some kindness shewn. In summe, our Dreams are the reverse of our waking

Memory.

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Apparitions or Visions. [7]

Imaginations; The motion when we are awake, beginning af one end; and when we Dream, at another.

The most difficult discerning of a mans Dream, from his waking thoughts, is then, when by some accident we observe not that we have slept: which is easie to happen to a man full of fearfull thoughts; and whose conscience is much troubled; and that sleepeth, without the circumstances, of going to bed, or putting off his clothes, as one that noddeth in a chayre. For he that taketh pains, and industriously layes himself to sleep, in case any uncouth and exorbitant fancy come unto him, cannot easily think it other than a Dream. We read of Marcus Brutus, (one that had his life given him by Julius Caesar, and was also his favorite, and notwithstanding murthered him,) how at Philippi, the night before he gave battell to Augustus Caesar, hee saw a fearfull apparition, which is commonly related by Historians as a Vision: but considering the circumstances, one may easily judge to have been but a short Dream. For sitting in his tent, pensive and troubled with the horrour of his rash act, it was not hard for him, slumbering in the cold, to dream of that which most affrighted him; which feare, as by degrees it made him wake; so also it must needs make the Apparition by degrees to vanish: And having no assurance that he slept, he could have no cause to think it a Dream, or any thing but a Vision. And this is no very rare Accident: for even they that be perfectly awake, if they be timorous, and supperstitious, possessed with fearfull tales, and alone in the dark, are subject to the like fancies; and believe they see spirits and dead mens Ghosts walking in Church-yards; whereas it is either their Fancy onely, or els the knavery of such persons, as make use of such superstitious feare, to passe disguised in the night, to places they would not be known to haunt.

From this ignorance of how to distinguish Dreams, and other strong Fancies, from Vision and Sense, did arise the greatest part of the Religion of the Gentiles in time past, that worshipped Satyres, Fawnes, Nymphs, and the like; and now adayes the opinion that rude people have of Fayries, Ghosts, and Goblins; and of the power of Witches. For as for Witches, I think not that their witchcraft is any reall power; but yet that they are justly punished, for the false beliefe they have, that they can do such mischiefe, joyned with their purpose to do it if they can: their trade being neerer to a new Religion, than to a Craft or Science. And for Fayries, and walking Ghosts, the opinion

of them has I think been on purpose, either taught, or not confuted, to keep in credit the use of Exorcisme, of Crosses, of holy Water, and other such inventions of Ghostly men. Neverthelesse, there is no doubt, but God can make unnaturall Apparitions: But that he does it so often, as men need to feare such things, more than they feare the stay, or change, of the course of Nature, which he also can stay, and change, is no point of Christian faith. But evill men under pretext that God can do anything, are so bold as to say any thing when it serves their turn, though they think it untrue; It is the part of a wise man, to believe them no further, than right reason makes that which they say, appear credible. If this superstitious fear of Spirits were taken away, and with it, Prognostiques from Dreams, false Prophecies, and many other things depending thereon, by which, crafty ambitious persons [8] abuse the simple people, men would be much more fitted than they are for civill Obedience.

And this ought to be the work of the Schooles: but they rather nourish such doctrine. For (not knowing what Imagination, or the Senses are), what they receive, they teach: some saying, that Imaginations rise of themselves, and have no cause: Others that they rise most commonly from the Will; and that Good thoughts are blown (inspired) into a man, by God; and Evill thoughts by the Divell: or that Good thoughts are powred (infused) into a man, by God, and Evill ones by the Divell. Some say the Senses receive the Species of things, and deliver them to the Common-sense; and the Common Sense delivers them over to the Fancy, and the Fancy to the Memory, and the Memory to the Judgement, like handing of things from one to another, with many words making nothing understood.

The Imagination that is raysed in man (or any other creature Underindued with the faculty of imagining) by words, or other voluntary signes, is that we generally call *Understanding*; and is common to Man and Beast. For a dogge by custome will understand the call, or the rating of his Master; and so will many other Beasts. That Understanding which is peculiar to man, is the Understanding not onely his will; but his conceptions and thoughts, by the sequell and contexture of the names of things into Affirmations, Negations, and other formes of Speech: And of this kinde of Understanding I shall speak hereafter.

CHAP. III.

Of the Consequence or Trayne of Imaginations.

By Consequence, or TRAYNE of Thoughts, I understand that succession of one Thought to another, which is called (to distinguish it from Discourse in words) Mentall Discourse.

When a man thinketh on any thing whatsoever, His next Thought after, is not altogether so casuall as it seems to be. Not every Thought to every Thought succeeds indifferently. But as wee have no Imagination, whereof we have not formerly had Sense, in whole, or in parts; so we have no Transition from one Imagination to another, whereof we never had the like before in our Senses. The reason whereof is this. All Fancies are Motions within us, reliques of those made in the Sense: And those motions that immediately succeeded one another in the sense, continue also together after Sense: In so much as the former comming again to take place, and be praedominant, the later followeth, by coherence of the matter moved, in such manner, as water upon a plain Table is drawn which way any one part of it is guided by the finger. But because in sense, to one and the same thing perceived, sometimes one thing, sometimes another succeedeth, it comes to passe in time, that in the Imagining of any thing, there is no certainty what we shall Imagine next; Onely this is certain, it shall be something that succeeded the same before, at one time or another.

This Trayne of Thoughts, or Mentall Discourse, is of two sorts. The first is Unguided, without Designe, and inconstant; Wherein there is no Passionate Thought, to govern and direct those that follow, to it self, as the end and scope of some desire, or other passion: In which case the thoughts are said to wander, and seem impertinent one to another, as in a Dream. Such are Commonly the thoughts of men, that are not onely without company, but also without care of any thing; though even then their Thoughts are as busic as at other times, but without harmony; as the sound which a Lute out of tune would yeeld to any man; or in tune, to one that could not play. And yet in this wild ranging of the mind, a man may oft-times perceive the way of it,

and the dependance of one thought upon another. For in a Discourse of our present civill warre, what could seem more impertinent, than to ask (as one did) what was the value of a Roman Penny? Yet the Cohaerence to me was manifest enough. For the Thought of the warre, introduced the Thought of the delivering up the King to his Enemies; The Thought of that, brought in the Thought of the delivering up of Christ; and that again the Thought of the 30 pence, which was the price of that treason: and thence easily followed that malicious question; and all this in a moment of time; for Thought is quick.

The second is more constant; as being regulated by some desire, Trayne of and designe. For the impression made by such things as wee desire, or feare, is strong and permanent, or, (if it cease for a time,) of quick return: so strong it is sometimes, as to hinder and break our sleep. From Desire, ariseth the Thought of some means we have seen produce the like of that which we ayme at; and from the thought of that, the thought of means to that mean; and so continually, till we come to some beginning within our own power. And because the End, by the greatnesse of the impression, comes often to mind, in case our thoughts begin to wander, they are quickly again reduced into the way: which observed by one of the seven wise men, made him give men this praecept, which is now worne out, Respice finem; that is to say, in all your actions, look often upon what you would have, as the thing that directs all your thoughts in the way to attain it.

The Trayne of regulated Thoughts is of two kinds; One, when of an effect imagined, wee seek the causes, or means that produce it: and this is common to Man and Beast. The other is, when imagining any thing whatsoever, wee seek all the possible effects, that can by it be produced; that is to say, we imagine what we can do with it, when wee have it. Of which I have not at any time seen any signe, but in man onely; for this is a curiosity hardly incident to the nature of any living creature that has no other Passion but sensuall, such as are hunger, thirst, lust, and anger. In summe, the Discourse of the Mind, when it is governed by designe, is nothing but Seeking, or the faculty of Invention, which the Latines call Sagacitas, and Solertia; a hunting out [10] of the causes, of some effect, present or past; or of the effects, of some present or past cause. Sometimes a man seeks what he hath lost; and from that place, and time, wherein hee misses it, his mind runs back, from place to place, and time to time, to find where, and when he had

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Thoughts unguided.

Trayne of

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Remembrance.

it; that is to say, to find some certain, and limited time and place, in which to begin a method of seeking. Again, from thence, his thoughts run over the same places and times, to find what action, or other occasion might make him lose it. This we call Remembrance, or Calling to mind: the Latines call it Reminiscentia, as it were a Re-conning of our former actions.

Sometimes a man knows a place determinate, within the compasse whereof he is to seek; and then his thoughts run over all the parts thereof, in the same manner, as one would sweep a room, to find a jewell; or as a Spaniel ranges the field, till he finds a sent; or as a man should run over the Alphabet, to start a rime.

Prudence.

Sometime a man desires to know the event of an action; and then he thinketh of some like action past, and the events thereof one after another; supposing like events will follow like actions. As he that foresees what wil become of a Criminal, re-cons what he has seen follow on the like Crime before; having this order of thoughts, The Crime, the Officer, the Prison, the Judge, and the Gallowes. Which kind of thoughts, is called Foresight, and Prudence, or Providence; and sometimes Wisdome; though such conjecture, through the difficulty of observing all circumstances, be very fallacious. But this is certain; by how much one man has more experience of things past, than another; by so much also he is more Prudent, and his expectations the seldomer faile him. The Present onely has a being in Nature; things Past have a being in the Memory onely, but things to come have no being at all; the Future being but a fiction of the mind, applying the sequels of actions Past, to the actions that are Present; which with most certainty is done by him that has most Experience; but not with certainty enough. And though it be called Prudence, when the Event answereth our Expectation; yet in its own nature, it is but Presumption. For the foresight of things to come, which is Providence, belongs onely to him by whose will they are to come. From him onely, and supernaturally, proceeds Prophecy. The best Prophet naturally is the best guesser; and the best guesser, he that is most versed and studied in the matters he guesses at: for he hath most Signes to guesse by.

Signes.

A Signe, is the Event Antecedent, of the Consequent; and contrarily, the Consequent of the Antecedent, when the like Consequences have been observed, before: And the oftner they have been observed, the lesse uncertain is the Signe. And therefore he that has most experience in any kind of businesse, has most Signes, whereby to guesse at the Future time; and consequently is the most prudent: And so much more prudent than he that is new in that kind of business, as not to be equalled by any advantage of naturall and extemporary wit: though perhaps many young men think the contrary.

Neverthelesse it is not Prudence that distinguisheth man from beast. There be beasts, that at a year old observe more, and pursue [11] that which is for their good, more prudently, than a child can do at ten.

As Prudence is a Praesumtion of the Future, contracted from the Conjecture of Experience of time Past: So there is a Praesumtion of things Past taken from other things (not future but) past also. For he that hath seen by what courses and degrees, a flourishing State hath first come into civil warre, and then to ruine; upon the sight of the ruines of any other State, will guesse, the like warre, and the like courses have been there also. But this conjecture, has the same incertainty almost with the conjecture of the Future; both being grounded onely upon Experience.

There is no other act of mans mind, that I can remember, naturally planted in him, so, as to need no other thing, to the exercise of it, but to be born a man, and live with the use of his five Senses. Those other Faculties, of which I shall speak by and by, and which seem proper to man onely, are acquired, and encreased by study and industry; and of most men learned by instruction, and discipline; and proceed all from the invention of Words, and Speech. For besides Sense, and Thoughts, and the Trayne of thoughts, the mind of man has no other motion; though by the help of Speech, and Method, the same Facultyes may be improved to such a height, as to distinguish men from all other living Creatures.

Whatsoever we imagine, is Finite. Therefore there is no Idea, or conception of any thing we call Infinite. No man can have in his mind an Image of infinite magnitude; nor conceive infinite swiftness, infinite time, or infinite force, or infinite power. When we say any thing is infinite, we signifie onely, that we are not able to conceive the ends, and bounds of the thing named; having no Conception of the thing, but of our own inability. And therefore the Name of God is used, not to make us conceive him; (for he is Incomprehensible; and his greatnesse, and power are unconceivable;) but that we may honour him. Also because whatsoever (as I said before,) we conceive, has been perceived first by sense, either all at once, or by parts; a man can have no thought, representing any thing, not subject to sense. No man therefore can conceive any thing, but he must conceive it in some place; and indued with some determinate magnitude; and which may be divided into parts; nor that any thing is all in this place, and all in another place at the same time; nor that two, or more things can be in one, and the same place at once: For none of these things ever have, or can be incident to Sense; but are absurd speeches, taken upon credit (without any signification at all,) from deceived Philosophers, and deceived, or deceiving Schoolemen.

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CHAP. IV. Of SPEECH.

Originall of Speech.

The Invention of Printing, though ingenious, compared with the invention of Letters, is no great matter. But who was the first that found the use of Letters, is not known. He that first brought them into Greece, men say was Cadmus, the sonne of Agenor, King of Phaenicia. A profitable Invention for continuing the memory of time past, and the conjunction of mankind, dispersed into so many, and distant regions of the Earth; and with all difficult, as proceeding from a watchfull observation of the divers motions of the Tongue, Palat, Lips, and other organs of Speech; whereby to make as many differences of characters, to remember them. But the most noble and profitable invention of all other, was that of Speech, consisting of Names or Appellations, and their Connexion; whereby men register their Thoughts; recall them when they are past; and also declare them one to another for mutuall utility and conversation; without which, there had been amongst men, neither Common-wealth, nor Society, nor Contract, nor Peace, no more than amongst Lyons, Bears, and Wolves. The first author of Speech was God himself, that instructed Adam how to name such creatures as he presented to his sight; For the Scripture goeth no further in this matter. But this was sufficient to direct him to adde more names, as the experience and use of the creatures should give him occasion; and to joyn them in such manner by degrees, as to make himself understood; and so by succession of time, so much language might be gotten, as he had found use for;

though not so copious, as an Orator or Philosopher has need of. For I do not find any thing in the Scripture, out of which, directly or by consequence can be gathered, that Adam was taught the names of all Figures, Numbers, Measures, Colours, Sounds, Fancies, Relations; much less the names of Words and Speech, as Generall, Speciall, Affirmative, Negative, Interrogative, Optative, Infinitive, all which are usefull; and least of all, of Entity, Intentionality, Quiddity, and other insignificant words of the School.

But all this language gotten, and augmented by Adam and his posterity, was again lost at the tower of Babel, when by the hand of God, every man was stricken for his rebellion, with an oblivion of his former language. And being hereby forced to disperse themselves into severall parts of the world, it must needs be, that the diversity of Tongues that now is, proceeded by degrees from them, in such manner, as need (the mother of all inventions) taught them; and in ** tract of time grew every where more copious.

The generall use of Speech, is to transferre our Mentall Discourse, The use of

into Verbal; or the Trayne of our Thoughts, into a Trayne of Words; and that for two commodities; whereof one is, the Registring of the [13] Consequences of our Thoughts; which being apt to slip out of our memory, and put us to a new labour, may again be recalled, by such words as they were marked by. So that the first use of names, is to serve for Markes, or Notes of remembrance. Another is, when many use the same words, to signifie (by their connexion and order,) one to another, what they conceive, or think of each matter; and also what they desire, feare, or have any other passion for. And for this use they are called Signes. Speciall uses of Speech are these; First, to Register, what by cogitation, wee find to be the cause of any thing, present or past; and what we find things present or past may produce, or effect: which in summe, is acquiring of Arts. Secondly, to shew to others that knowledge which we have attained; which is, to Counsell, and Teach one another. Thirdly, to make known to others our wills, and purposes, that we may have the mutuall help of one another. Fourthly, to please and delight our selves, and others, by playing with our words, for pleasure or ornament, innocently.

To these Uses, there are also foure correspondent Abuses. First, Abuses of when men register their thoughts wrong, by the inconstancy of the signification of their words; by which they register for their conceptions, that which they never conceived; and so deceive themselves.