

# Eleatic School

1      Eleatic school takes its name from Elea, a city in southern Italy, the hometown of Parmenides. Philoso-  
2      phers of this school think that change is impossible and unthinkable. Although the found of the school  
3      is attributed to Parmenides (515 BC-?), the thesis of permanence could be seen in works of Xenophanes  
4      (570 BC-478 BC).

## 5      1      Xenophanes

6      Nowadays, Xenophanes argument about God is often referred as criticism to superstitions. He wrote:

7      *Yes, and if oxen or lions had hands, and could paint with their hands and produce works of art as*  
8      *men do, horses would paint the forms of the gods like horses and oxen like oxen. Each would represent*  
9      *with bodies according to the form of each. So the Ethiopians make there gods black and snub-nosed; the*  
10     *Thracians give theirs red hair and blue eyes.*

11     But his real aim is to show the unity of God, while mortals think that the gods are born as they are,  
12     and have perceptions like theirs, and voice and form.

13     God is one, eternal and unlike mortals in both mind and form. He sees all over, thinks all over, hears  
14     all over and governs all things by the thought of his mind. He is unlimited because nothing is beside  
15     him, while he is limited because he is a perfect form, not a formless infinite. He is immovable as a whole,  
16     because motion is in contrast with his unity, but there is motion or change in his parts. God is the eternal  
17     principle of the world. In other words, God is the world. However, Xenophanes never solved the contrary  
18     between the permanent God, who is the world, and the sensible world fulfilled with changes.

19     Xenophanes invites an eternal God, who is the first principle of the world and governs everything.  
20     However, he is interested in reducing God to the level of the forces of nature instead of explaining  
21     everything as the will of God and do offer some scientific theories. For example, from evidence of shells  
22     and imprints of sea products in stone, he infers that at one time the earth was mingled with the sea, but  
23     in the course of time it rose above the sea.

## 24 2 Parmenides

25 Parmenides challenges Heraclitus teach that nothing is permanent. If change is possible, it means that  
26 things are and are not. That is impossible, for a thing cannot both be and not be. So change is impossible.  
27 There is also another line of argument: If being has become, it must has become from being or become  
28 from non-being. The latter means that being has become from nothing, which is impossible. As for the  
29 former, it means that being has become from itself, which is equivalent to saying that being is identical  
30 with itself, and thus has always been.

31 Since change is impossible, everything remains what it is. Hence, there can be only one eternal,  
32 underived and unchangeable being, because if the being is plural, motion, the change of positions is  
33 inevitable. Since being is one, it must be continuous and indivisible because there is not anything in it  
34 but being. There is no break in being, for if there is, the break itself would become being, going against  
35 the doctrine that being is one. So again being is continuous. Furthermore, being must be immovable, for  
36 there is no empty space, non-being, for it to move in. It is also because of the doctrine that change and  
37 motion is impossible. Besides, thought and being are one, for what cannot be thought, cannot be; and  
38 what cannot be, cannot be thought.

39 The last problem: since change is inconceivable and being is one and permanent by reasoning, how are  
40 we supposed to understand the phenomena of change and motion observed by our senses? The answer is:  
41 our senses are cheating us. The world of sense is just an illusion and we should believe in our reasoning  
42 firmly.

43 Parmenides might be a victim of the linguistic fallacy as pointed by Betrand Russell. Parmenides'  
44 first line of argument for the impossibility of change says: "If change is possible, it means that things  
45 are and are not. That is impossible, for a thing cannot both be and not be. So change is impossible."  
46 However, in the flux of change, things first are and then are not. As for the second line of argument, it  
47 says: "If being has become, it must has become from being or become from non-being. The latter means  
48 that being has become from nothing, which is impossible. As for the former, it means that being has  
49 become from itself, which is equivalent to saying that being is identical with itself, and thus has always  
50 been." Here, it is pre-assumed that there could be only being, instead of beings.

51 Perhaps the main lesson we could learn from Parmenides is a negative one. We must be careful with  
52 the language we use when reasoning and deducting, for it may cause confusions and mistakes.

### 53 **3 Zeno**

54 Zeno (490 BC-430 BC) is famous for his four paradoxes led by the possibility of motion. The first one is  
55 that one can never reach a goal from a start point because he must passing through the infinite number  
56 of points. The second one is about Achilles of great speed and the tortoise. The intelligent runner cannot  
57 reach a tortoise because in any interval of time, when he is moving from his start point to the tortoises  
58 start point, the tortoise has moved a certain distance. The third is known as the paradox of the moving  
59 arrow. When an arrow is flying to its target, at any given moment, it is in a definite position in space.  
60 Namely, it is at rest. As a result, it can never reach its goal. It is implicated in the first three paradoxes  
61 that time and space are discrete instances and points respectively, instead of being continuous as we  
62 conceive today. The last one paradox is about relative motion. The observation of motion could be  
63 different, depending on whether it is observed from a position at rest or moving at different speeds.

64 Zeno also proofed that plurality is impossible because it leads to contradictions in a more general way  
65 compared with his paradoxes. Here is his refutation of plurality: If the whole being is plural, it is made  
66 up of many parts. It would lead to such a contradiction. The whole being is infinitely small, because any  
67 totality of being can be divided to infinitely small parts, and the sum of infinitely small parts can only be  
68 infinitely small. On the other hand, the whole being is infinitely large, because any totality can always  
69 be added with other parts to make it larger. In conclusion, the being is one.