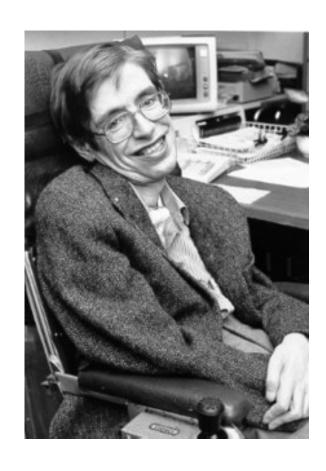
# History of Western Philosophy Kookmin University

Peter Lee, Spring 2019

#### L03

- The Pre-Socratics and Cosmologies II
- The Sophists

#### In Memoriam: Stephen Hawking



(1942 - 2018)

"Remember to look up at the stars and not down at your feet. Try to make sense of what you see and wonder about what makes the universe exist. Be curious. And however difficult life may seem, there is always something you can do and succeed at. It matters that you don't just give up."

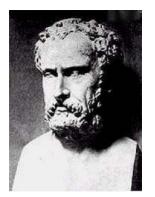
#### Pre-Socratics on Arche

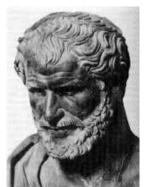
- Pre-Socratics studied nature (physis) first physicists:
- Thales: the basic element is Water.
- Anaximander: the basic element is the "Infinite" or "unlimited." Ultimate reality is unknowable.
- Anaximenes: the basic element is Air.
- Xenophanes: the basic element is Earth.
- Heraclitus: "Everything is Fire"





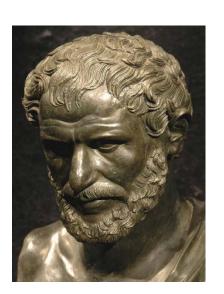






#### Heraclitus: Change

- The last and most famous of the Ionian philosophers (~535-475 BCE).
- Philosopher of Change:
  "Everything is Fire" / in Flux.
- No arguments, just quotes; a mystic.
- "You cannot step into the same river twice."
- "The only constant is change."
- "Everything flows and nothing abides."
- "The way up and the way down are one and the same."
- "War is the father and king of all things."



#### Heraclitus: Change

- That things change is trivially true, the very description of *Doxa* (appearance).
- He denies the existence of eternally unchanging element: no fundamental element (Arche) of reality.
- So "Fire" is used symbolically [common interpretation].

"This world, which is the same for all, no one of gods or men has made; but it was ever, is now and ever shall be an **ever-living fire**, with measures kindling and measures going out."



#### Heraclitus: Change

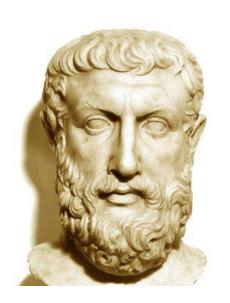
• "Logos" (word, reason), law which governs all things.

"Heraclitus spoke of a great Word or *Logos* which holds forever and in accordance with which all things come about." [CR: 11]

- Logos is Constant, but it seems to be some kind of force or principle, not substance. [cf. Logos in the Bible]
- Modern science describes reality governed by four fundamental forces (like *Logos*):
  - 1) gravity

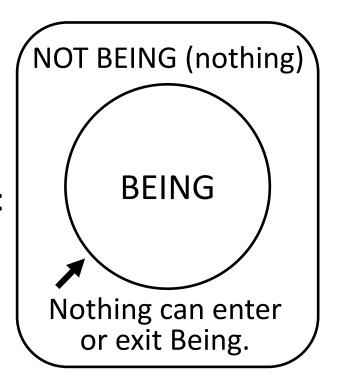
- 2) electromagnetism
- 3) weak interaction
- 4) strong interaction

- Probably a pupil of Xenophanes, lived in Elea in Italy (~515-440).
- Philosopher of Being [Onto]
- Poem: On Nature [only fragments remain]
  The Way of Truth / Appearance (doxa)
- Being includes all existing things;
  everything that can take the verb "to be."
- "Anything that can be at all, must be something or other; it cannot be just nothing." [CR 15]
- This seems trivially true: cosmos exists (has Being).



"Nothing can come from nothing." "Thought and Being are the same."

- Argument for Being (or Monism):
  - 1) Being is.
  - 2) Unbeing is.
  - 3) Both Being and Unbeing are.



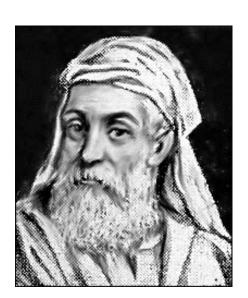
- But 2) cannot be; "unbeing" cannot BE anything.
- If 2) is false, 3) is false, but 3) is needed for becoming.
- If there is no becoming, there is no (true) change.

- Consequences:
  - Being must have no beginning, no end; it is infinite.
  - Being must be one and undivided; no multiplicity.
- Changes seem to happen (appearance: doxa), but Being itself admits no change. Change is illusory.
- "If it is some kind of being, then it is all part of Being, and past, present and future are all one Being." [CR: 16]
- Eternalism (block universe theory of time) is thus referred to as Parmenidean: nothing ever disappears; we have always been, are, and will be (exist).

- Karl Popper, describing his encounter with Einstein: "The main topic of our conversation was indeterminism. I tried to persuade him to give up his determinism ... the view that the world was a four-dimensional Parmenidean block universe in which change was a human illusion ... while discussing it I called him 'Parmenides'."
- Law of Conservation of Energy: Total energy ... stays the same. Energy can't be created or destroyed, only undergo *change of form* [appearance].
- Problem with "Thought and Being are the same": Do things like 'blue' or 'unicorn' also exist?

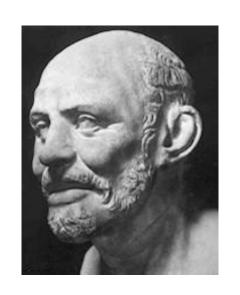
#### Being after Parmenides

- Thales and other Pre-Socratics believed in one fundamental element (Arche): earth, water, air, etc.
- But with Parmenides, how do we argue for change?
- Empedocles: (~495-435)
- All four elements are "Roots" of reality (do not come into being or perish)
  - "Arche is many";
  - controlled by Love and Strife.
- Love brings the elements together;
  Strife tears them apart.



## Being after Parmenides

- Democritus: Atomism (~460-370)
- Believed in 'atoms' (indivisible), infinite in number and kind, and empty space.
  - "Arche is many";
- "By convention sweet, by convention bitter, by convention hot and cold, and color, but in reality, atoms and void."



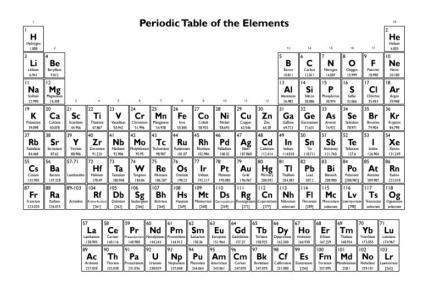
eg. When we taste honey, it tastes sweet; but "sweet" exists only in our mind. Even the object "honey" does not exist. It is only atoms and void, nothing else is real. [reductionism]

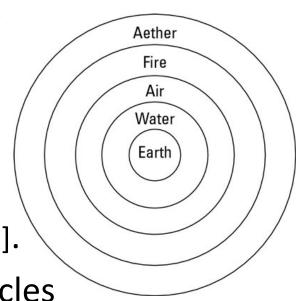
Being after Parmenides

Aristotle: earth, water, air, fire+ ether (quintessence)

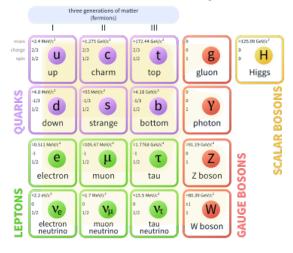
• **Atomism**: until 20<sup>th</sup> c. discovered 118 chemical elements [periodic table].

Standard model of elementary particles





#### **Standard Model of Elementary Particles**



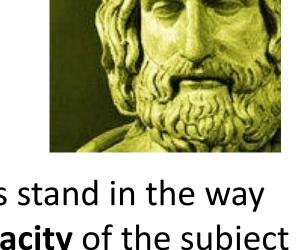
#### The Sophists and Sophism

- "Sophism": To argue in a persuasive but ultimately fallacious way or to be deceitful.
- "Sophistry": Subtly deceptive reasoning.
- The Sophists were peripatetic teachers who taught for a fee (first professional educators).
- Taught various topics, but mainly rhetoric.
- Critics (Socrates, Plato): they're not real philosophers.
- Plato: Sophists are a bad influence on the young, for they encourage skepticism, relativism, cynicism.
- Why were (are) they such a threat to philosophers?

#### Protagoras: Man

• The most famous of the Sophists (~490-420 BC), an agnostic (?):

"About the gods, I cannot be sure whether they exist or not, or what



they are like to see; for many things stand in the way of knowledge of them, both the **opacity** of the subject and the **shortness** of human life." [CR 19]

• Most famous saying:

"Man is the measure of all things, both of things that are that they are, and of things that are not that they are not." [CR 19]

#### Protagoras: Man

- Made "human beings" central: the First Humanist.
- Negative interpretation: If I am the measure of all things, there is no absolute right or wrong; truth is relative.
  - This is **Relativism** (or sophism)
  - no objective truth [leads to Postmodernism]
- Positive interpretation using the principle of charity:
  - "man" is collective; knowledge is relative to **us**.
  - we all agree on what knowledge is [cf. Kant]

-----

**NEXT WEEK: L04 Socrates**