

A history of gravity

An introduction to the epistemology of
Paul Feyerabend

Danilo Rodrigues
University of Sao Paulo
danilo.mrodrigues@yahoo.com.br

What is a scientific truth

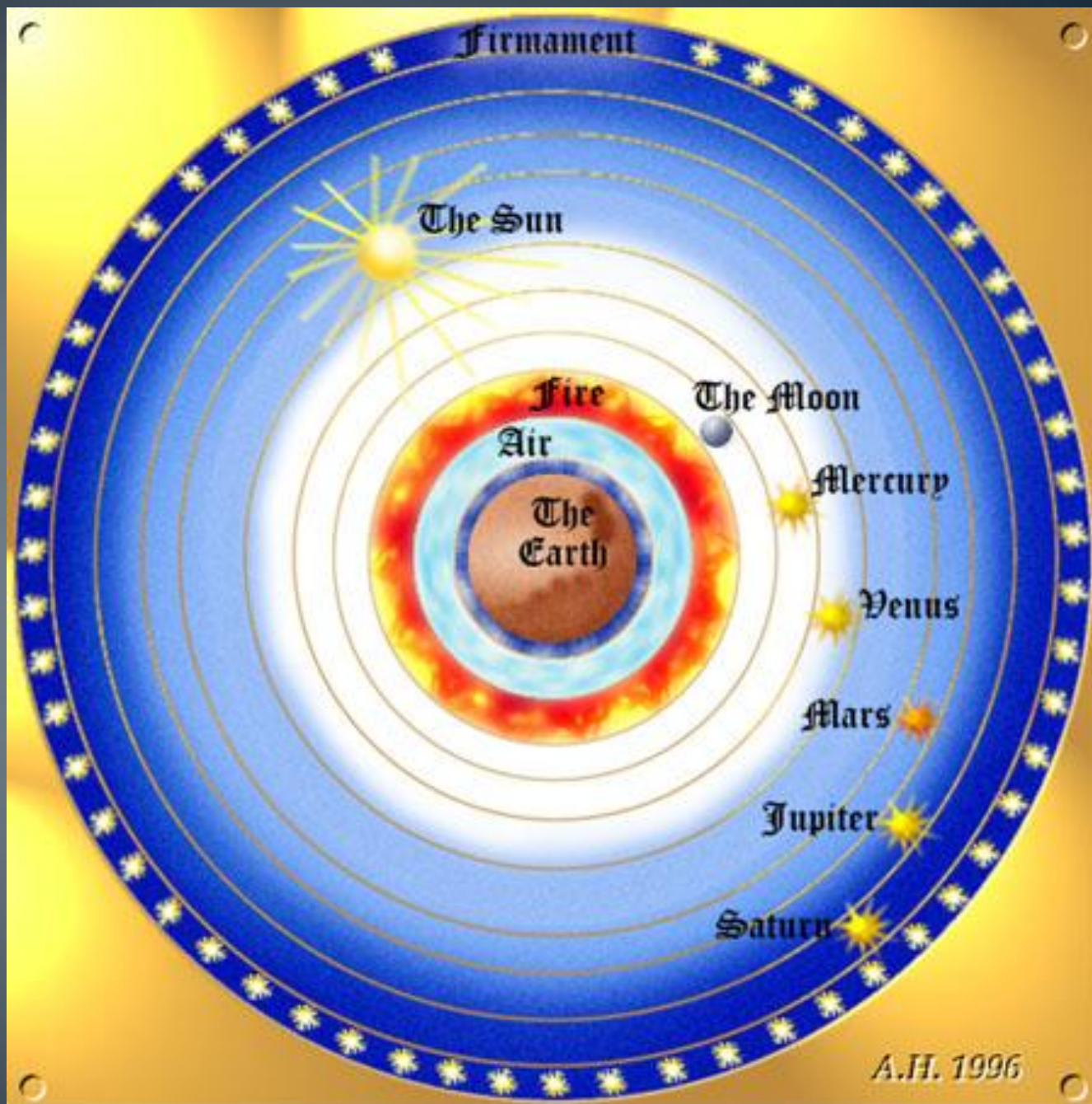
- There are many explanations for the same phenomena
- How to choose between different theories?
- The history of gravity as an example of this discussion

according to Aristotle...

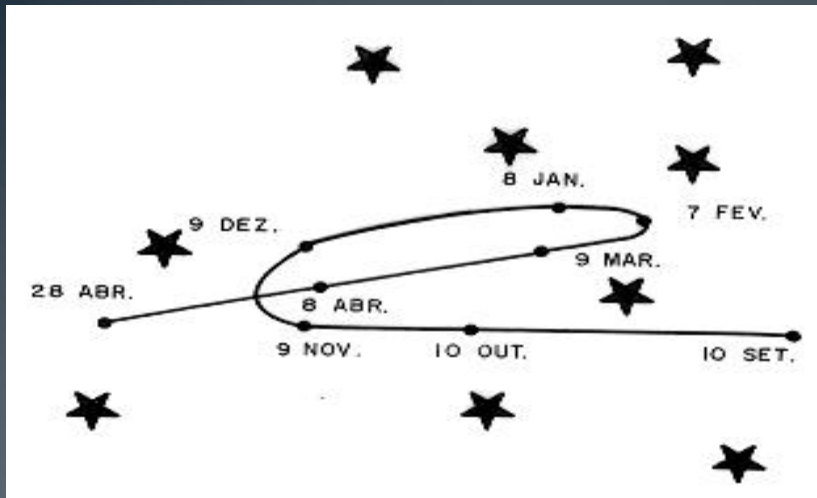
- The Universe has a natural order
- Natural places
- 4 Fundamental elements until the Moon

Fire/Water/air/earth

Earth is the center of cosmos



A.H. 1996

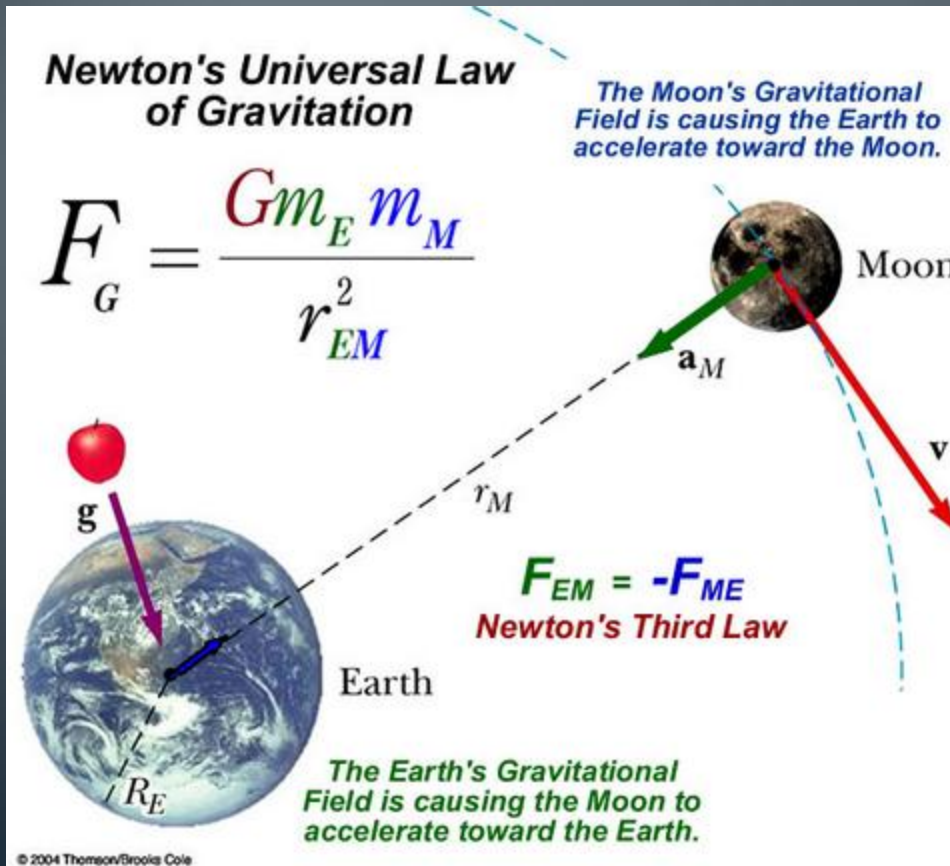


This explanation lasted more than 1800 years



Universal Gravitation

- Attraction as a pure consequence of masses

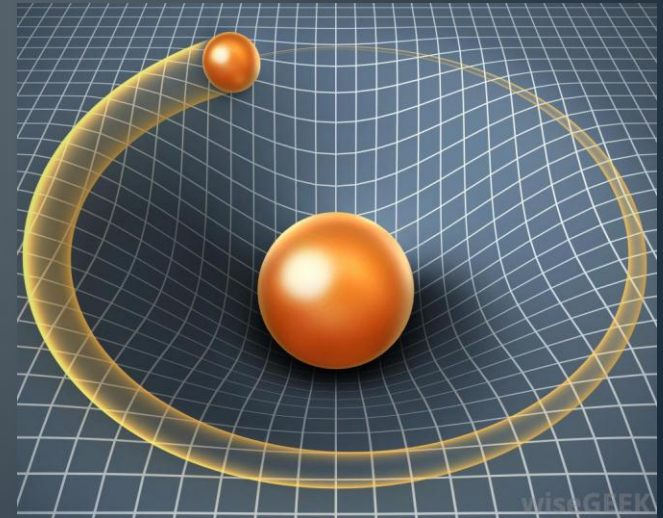
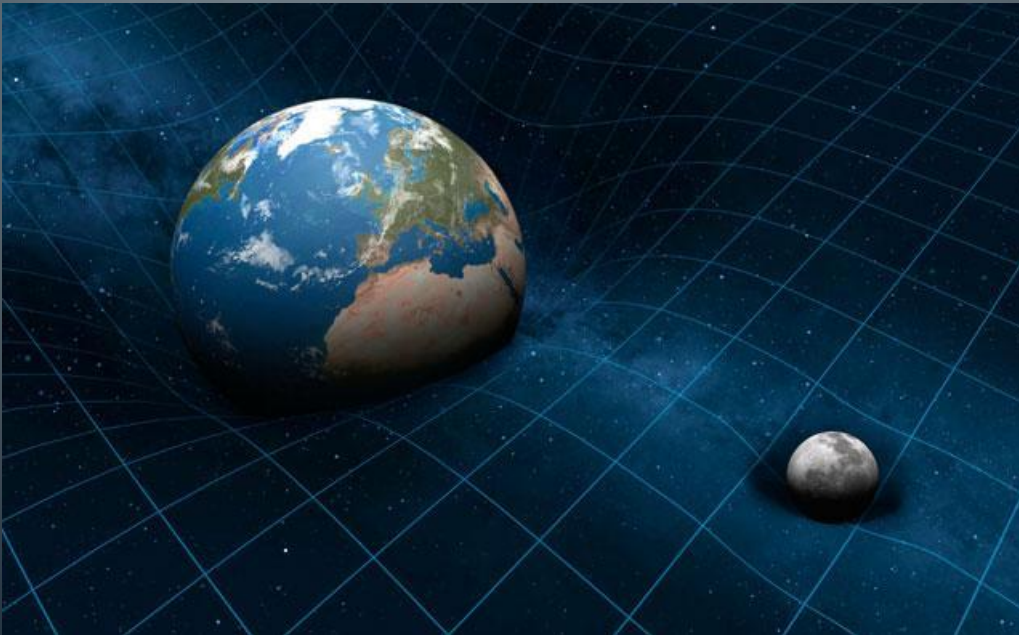


`` hypotheses non fingo ``

* Incomplete explanation

The general Relativity

- The structure of space-time
- Gravity is not a force



The importance in education

- Multiplicity of vision
- Science as a dynamic process
- Epistemological anarchism

