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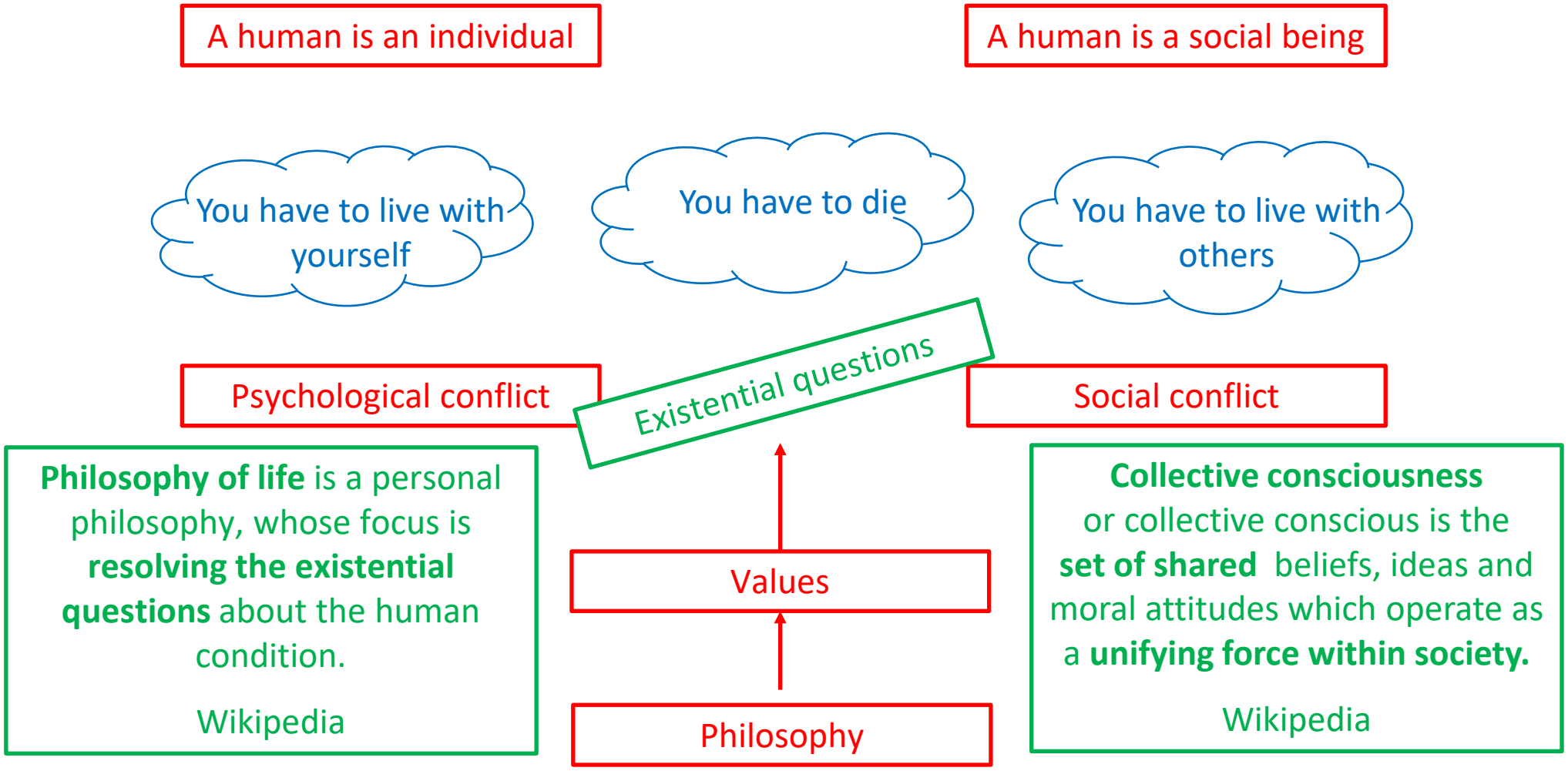
The Highest Level of Cerebral Activity II

Why?


A human is an individual
A human is a social being
You have to live with yourself
You have to die
You have to live with others
Psychological conflict
Existential questions
Social conflict
Philosophy of life is a personal philosophy, whose focus is resolving the existential questions about the human condition.
Wikipedia
Values
Philosophy
Collective consciousness or collective conscious is the set of shared beliefs, ideas and moral attitudes which operate as a unifying force within society.
Wikipedia

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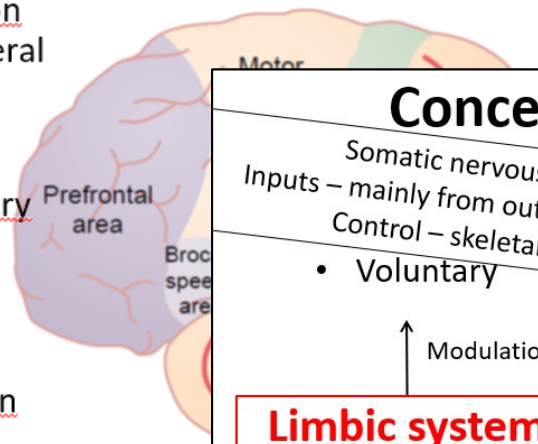
Complementary ways of thinking

Analytical functions

Parieto-occipito-temporal association area

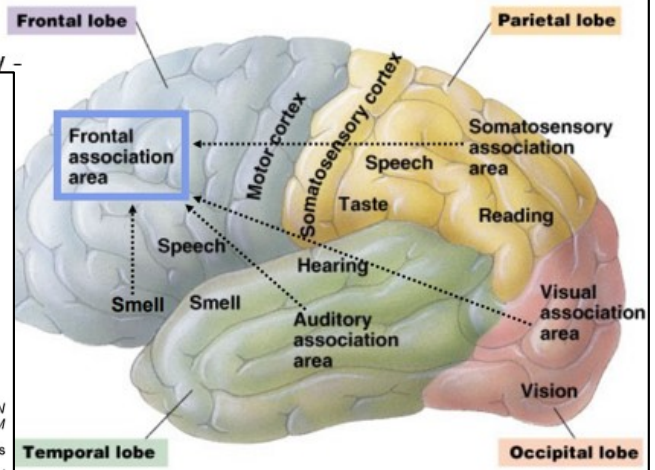
- Linking and interpretation of information from several sensory modalities
- Visual – acoustic – sensory analysis
- Object recognition and categorization
- Language comprehension
- Attention



Executive functions

Frontal association area

- Motor/non-motor planning/organization - strategy -



https://www.slideshare.net/thelawofscience/cns-13256395

Concept of the limbic system

Somatic nervous system
Inputs – mainly from outer environment
Control – skeletal muscle

- Voluntary

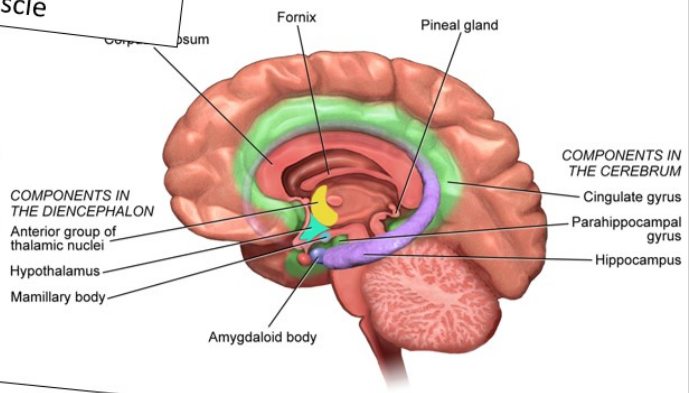
Modulation

Limbic system

Control

- Automatic

Autonomic nervous system
Inputs – mainly inner environment
Control – smooth/cardiac m., glands



https://upload.wikimedia.org/wikipedia/commons/d/d1/Blausen_0614_LimbicSystem.png

Analysis
Categorization

Anticipation
Expectation

Drive

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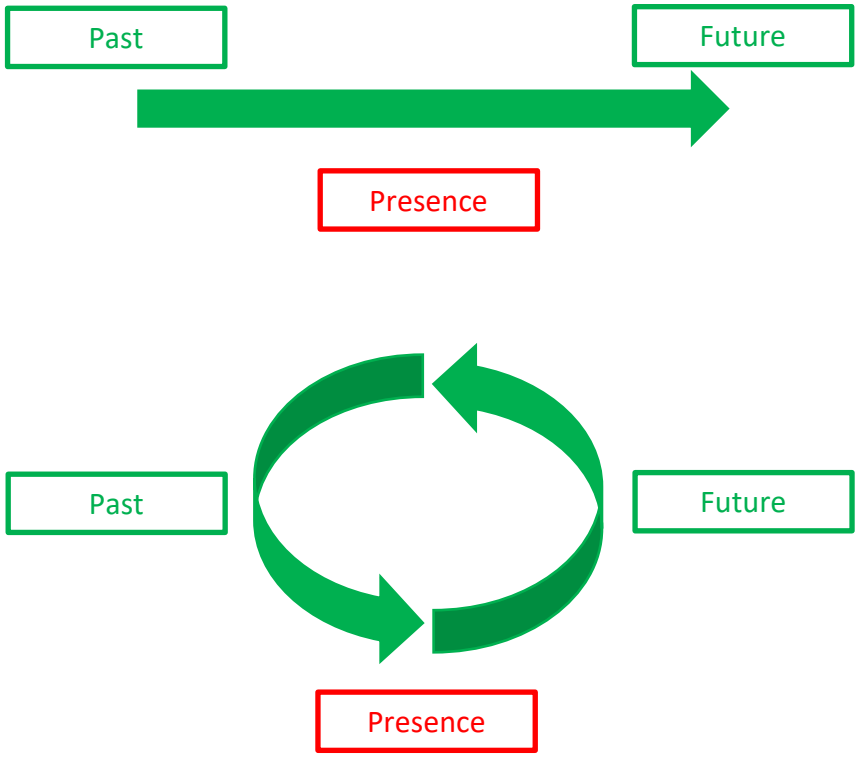
Mythology and philosophy

- All the nations have a mythology
- Language and mythology (and later culture and philosophy) define the nations
  - Communication
  - Values
- Explanation of complex issues
  - Pseudorational/iractional
  - Protscience
  - Symbolism – education

Mythology and philosophy

- All the nations have a mythology
- Language and mythology (and later culture and philosophy) define the nations
  - Communication
  - Values
- Explanation of complex issues
  - Pseudorational/iractional
  - Protscience
  - Symbolism – education
- Intuitive understanding of cyclic time

  (The cyclic time model was established much later by followers of Pythagoras)
- Myth – Philosophy – Science (August Comte)



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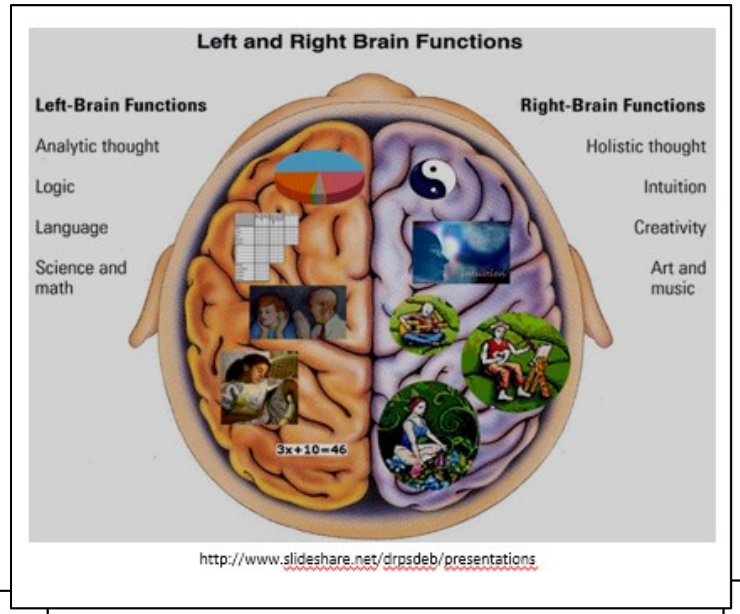
Philosophy, science and thinking

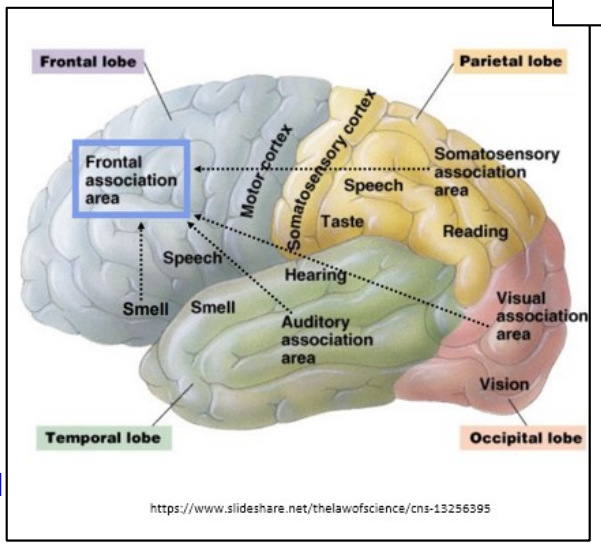
Rational
X
Irrational

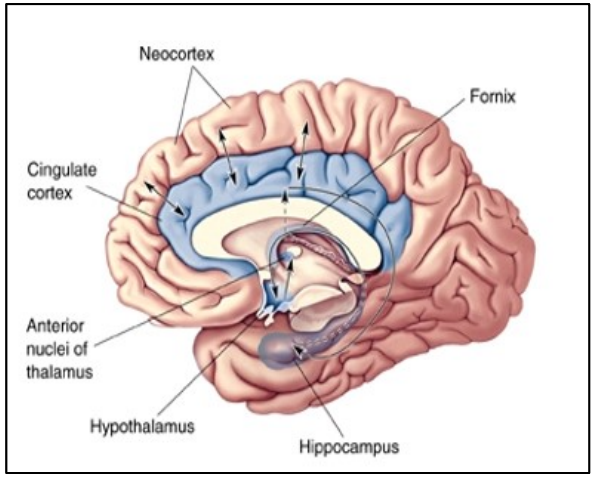
Reductionism
X
Holism

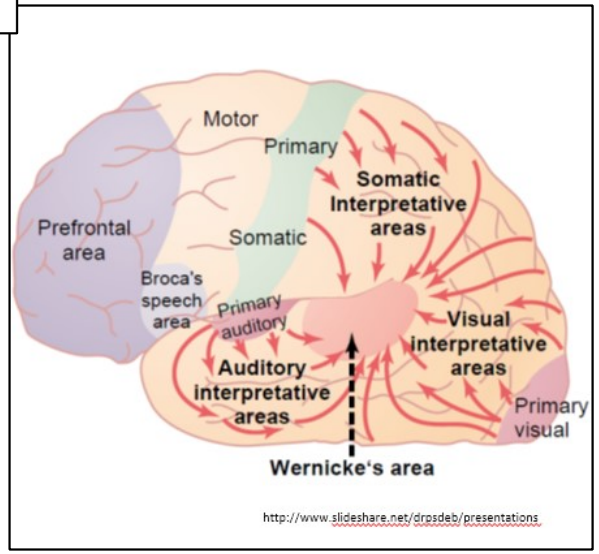


Quality
X
Quantity

Deduction
X
Induction







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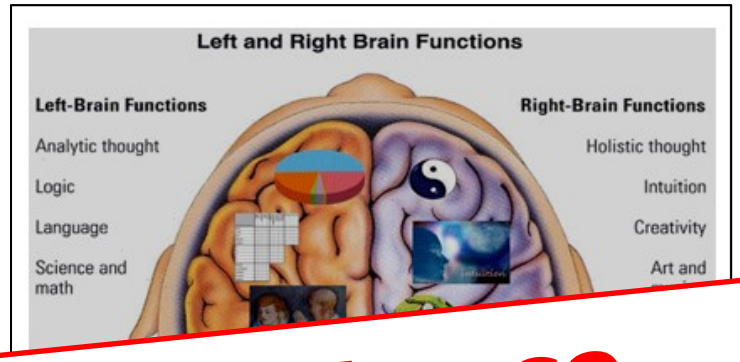
Philosophy, science and thinking

Rational
X
Irrational

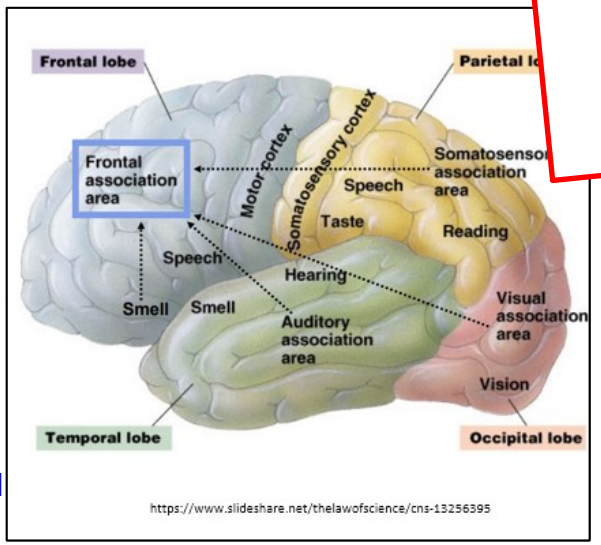
Reductionism
X
Holism

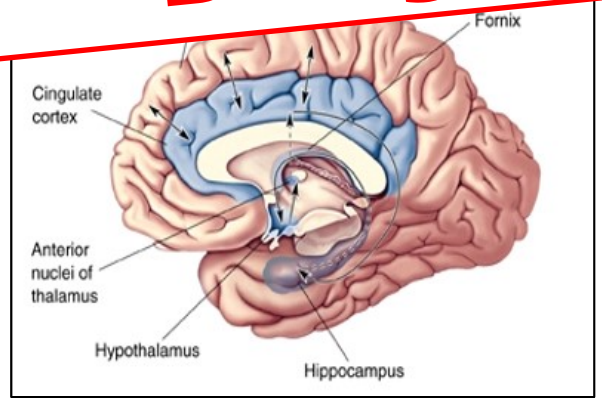


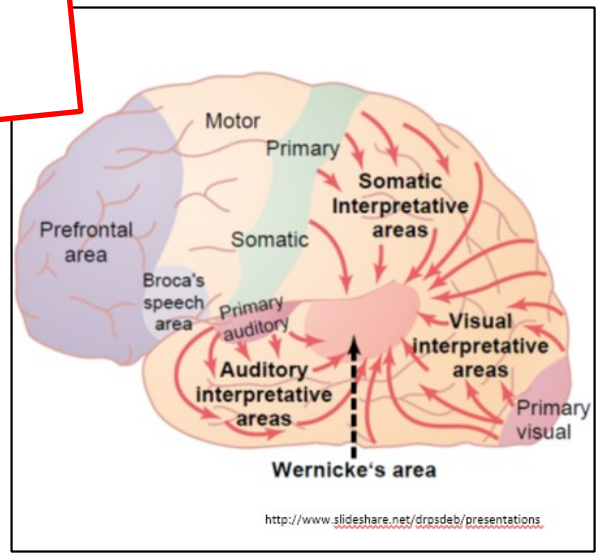
Existence
X
Being

Quality
X
Quantity

Deduction
X
Induction







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Antique philosophy

- Cosmology
  - Searching for the natural origins/source of things
  - Pre-Socratic philosophy
- Anthropologic philosophy
  - Focused on humans and society
  - Sophists, Socrates
- Systematic philosophy
  - Synthesis of previous philosophy to one system
  - Plato, Aristoteles
- Hellenistic philosophy
  - Focused on problematic of meaningful life
  - Stoicism, epicureism, skepticism…

http://www.bohemiabeer.eu/en/beer/8

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https://www.britannica.com/media/full/topic/244231/54571

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Milesian „school“

- Searching of the natural source of things (arche)

https://www.britannica.com/media/full/topic/244231/54571

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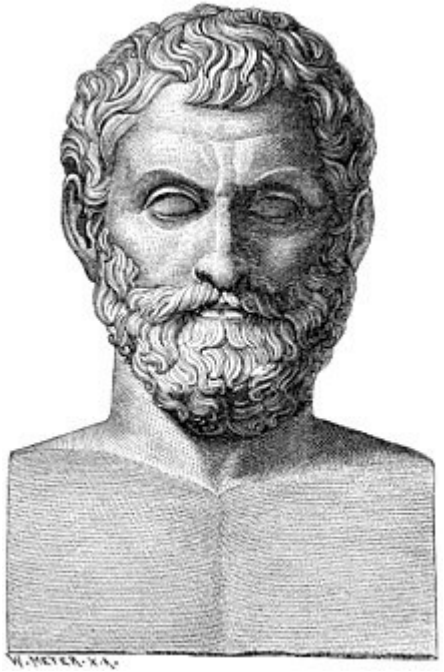
Thales of Miletus

(c. 624 – 548 BC)

- The first Greek philosopher, politician, geometrist, astronomist

- ✓ „everything has a same origin, but a different form“
- ✓ Source – water (possibly inspired by the sea)

https://www.ephotozine.com/article/how-to-photograph-stormy-seas-15558



https://en.wikipedia.org/wiki/Thales_of_Miletus

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Anaximander
(c. 610 – 546 BC)

- Angular distance measurement
- Gnomon (sundial)
- Globe of sky
- Map of the world

- ✓ Origin – Apeiron (infinite, limitless)
- ✓ The things are arisen from Apeiron by separation and then disappear - evolution

https://www.aldebaran.cz/famous/people/Anaximandros.php

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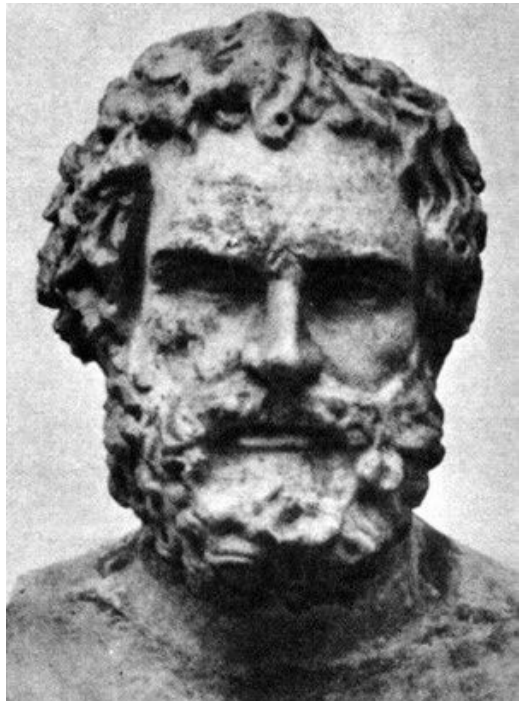
Anaximenes
(c. 585-528 BC)

✓Origin – (infinite) air (apeiros aer)

✓Thickening of air – water, stone

✓Dilution of air - fire



https://cz.pinterest.com/pin/567664728022494813/?lp=true

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Milesian „school“

- Searching of origin/source (arche)
- Rational way of thinking
  - Principle of follow Greek philosophy and modern science
- Reductionism
  - ✓ Simplification - one origin/source (monism)
  - ✓ Principle of modern science
  - ✓ An opposite approach to reductionism is holism – it is not possible to cover any problems in a holistic way only by rational thinking, it is necessary to use irrational way of thinking too (for example intuition)

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Pythagorean school

- The first real school of philosophy
- Searching for mathematical rules of logos/harmony

https://www.britannica.com/media/full/topic/244231/54571

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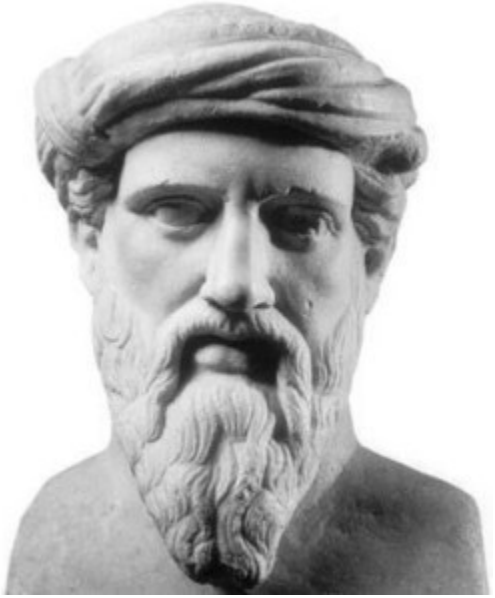
Pythagoras
(c. 570-495 BC)

- Founder of the Pythagorean school
- Philosophy had a mystical character and the school might resemble sect

✓ Introduced „modern“ meaning many terms like theoria, logos, cosmos etc.



https://www.goodreads.com/photo/author/203707.Pythagoras

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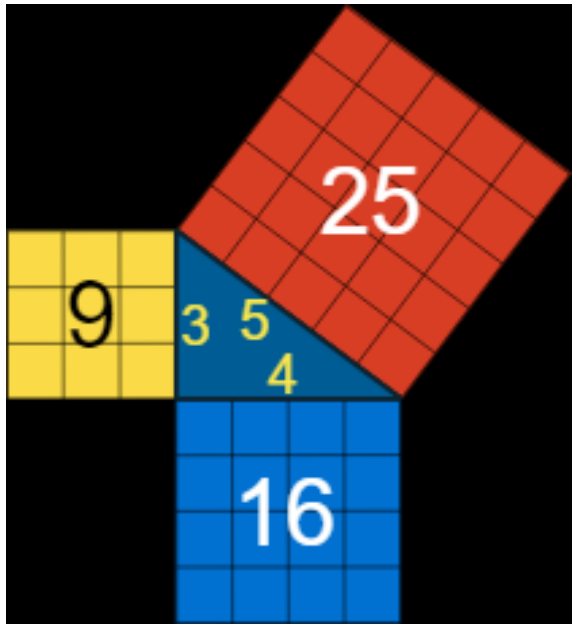
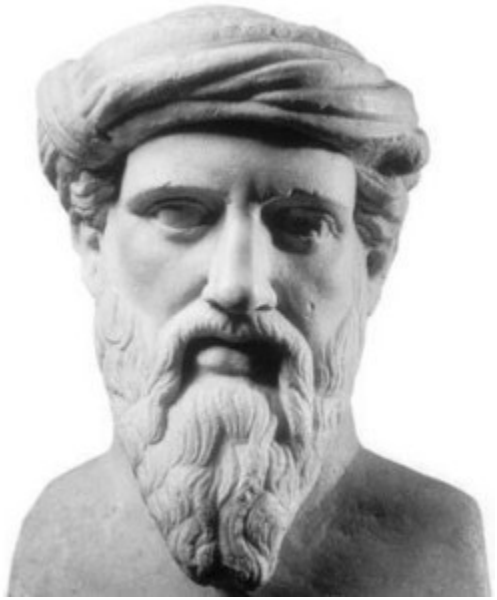
Pythagoras
(c. 570-495 BC)



https://www.mathsisfun.com/pythagoras.html



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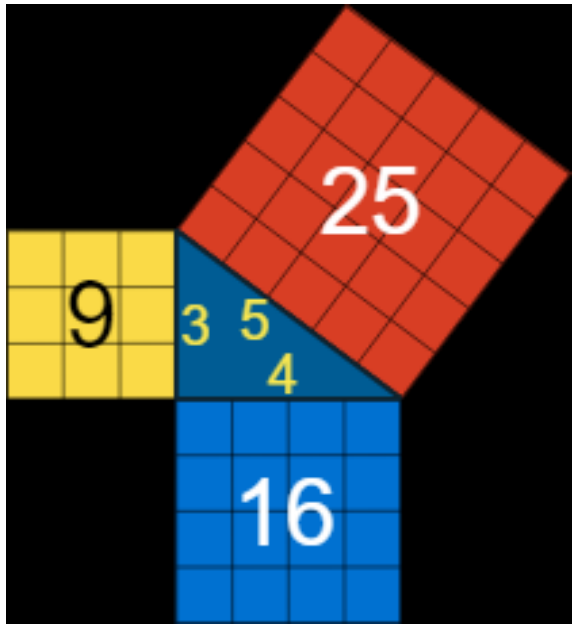

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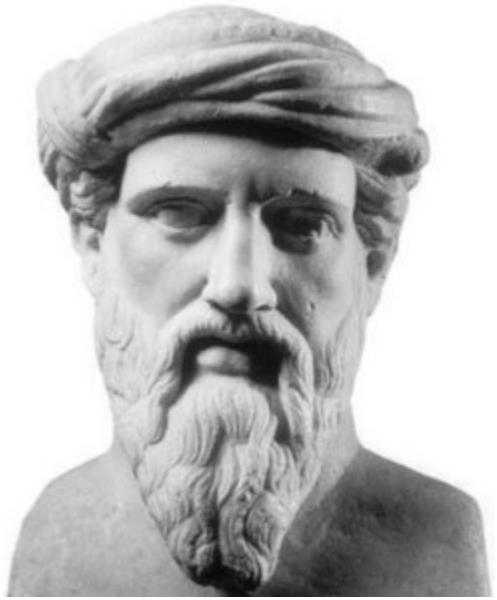

https://www.goodreads.com/photo/author/203707.Pythagoras

Philosophical meaning of Pyythagora´s Theorem

When you reach higher level, you can find relationships which are not visible on a lower level.

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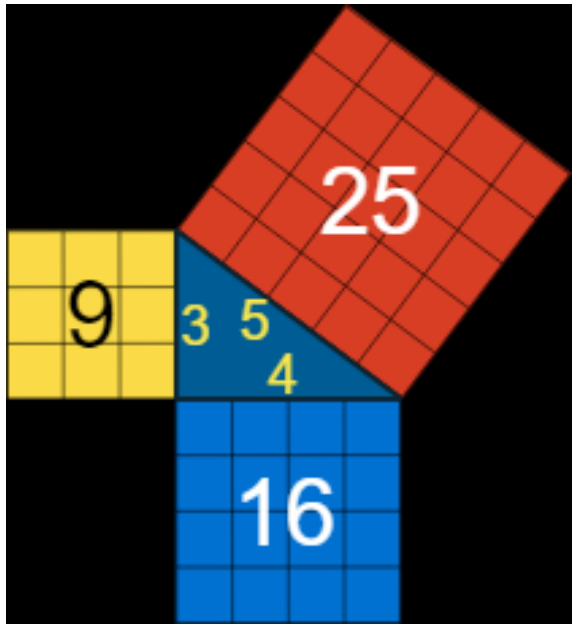

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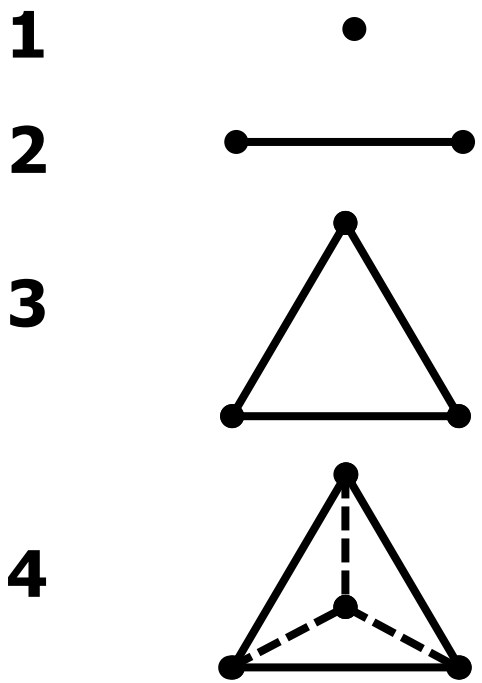

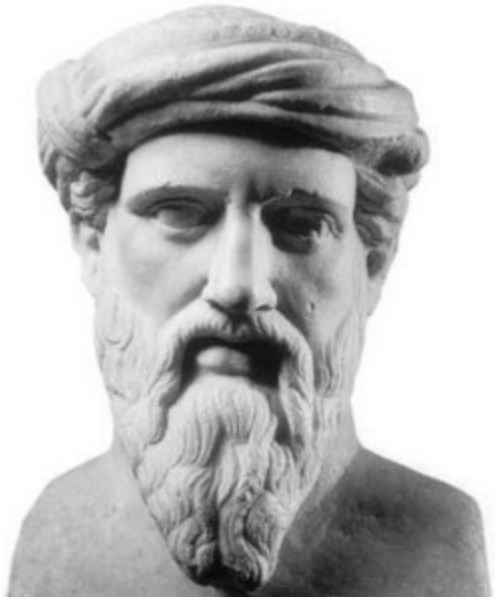

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Philosophical meaning of Pyythagora´s Theorem

When you reach higher level, you can find relationships which are not visible on a lower level.

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Pythagoreans

- ✓ Abstract way of thinking
- ✓ Holistic approach

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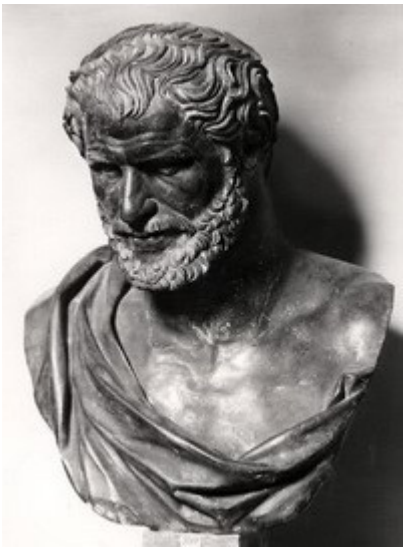
Heraclitus of Ephesus

(c. 540 - 480 BC)

- Dynamic approach
  - Ever-present change as fundamental essence
    - ✓There are no static things
  - Origin – fire
    - ✓Fire is dynamic and changes everything
  - Dynamism is organized by logos

- Dynamism may be also considered as a fight/antagonism



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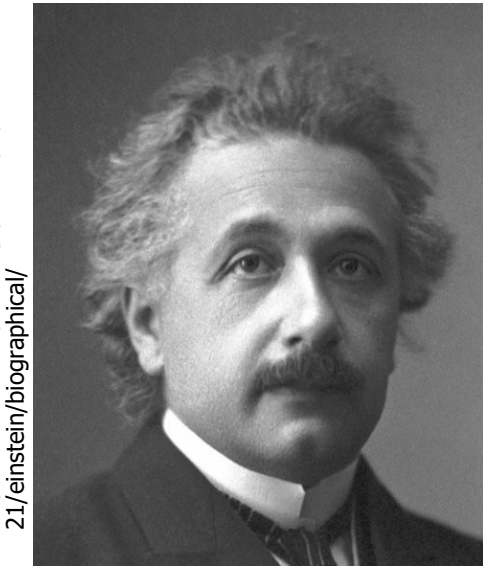
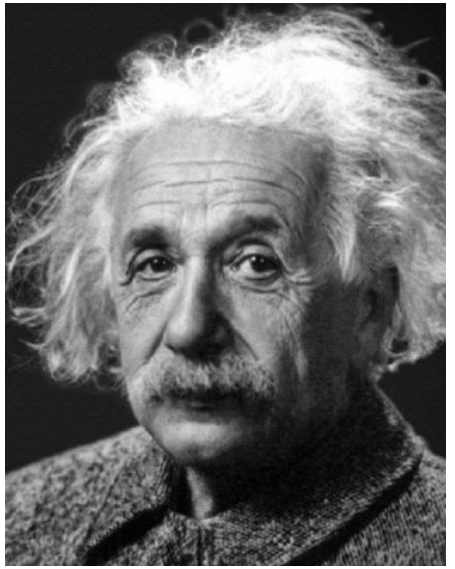


https://www.nobelprize.org/prizes/physics/1921/einstein/biographical/



https://www.viva.org.uk/what-we-do/celebrity-supporters/albert-einstein

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Eleatics

- In opposition to Heraclitus
- Emphasized the role of logical thinking

https://www.britannica.com/media/full/topic/244231/54571

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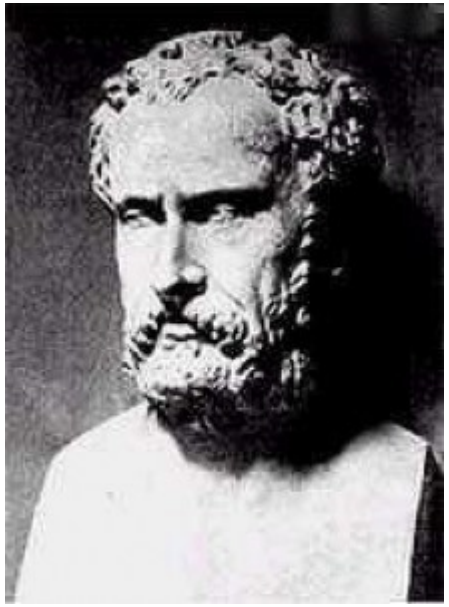
Xenophanes
(c. 570-475 BC)

- Rhapsodian
  - ✓Parody to mythology
- Ridiculing myths
  - ✓Why should men behave in a good way, if Greek gods are corrupted?
- Ridiculing Heracleitus ???
  - ✓Nothing changes
- Inspiration to Eleatics

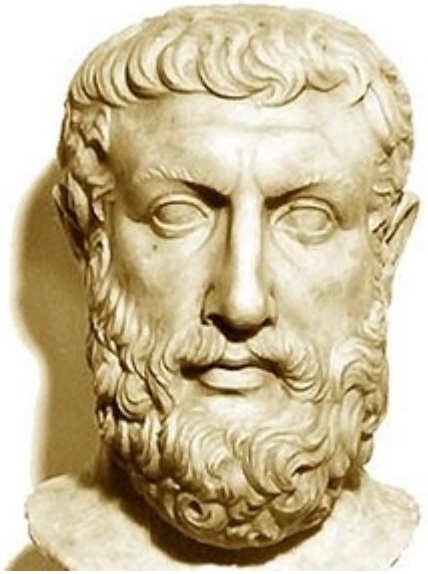


https://www.iep.utm.edu/xenoph/

Parmenides

(c. 510-450 BC)

- ➢ Founder of Eleatic school
- ✓ What exists, just exists and you can study it (positive way)
- ✓Nonexistence cannot exist and if you try to study it, you will find that is not possible (negative way)
- ✓Ambiguity (some things exist and some does not) is a way of fools
- ✓ There is no movement (movement precepted by our senses is an illusion)



https://en.wikipedia.org/wiki/Parmenides

https://dparut.smugmug.com/Custom-Processing/Specials/i-8c2CVGn/A

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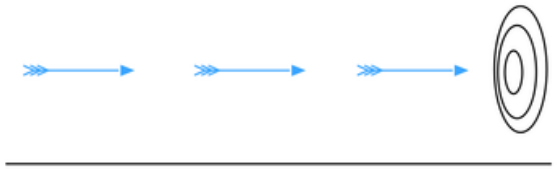
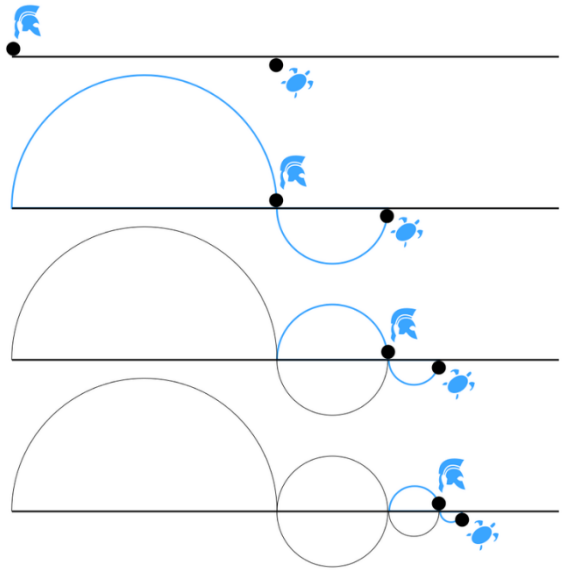
Zeno of Elea
(c. 490-430 BC)

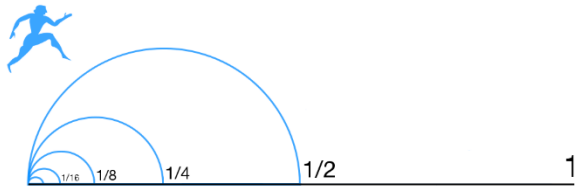
https://www.philosophybasics.com/philosophers_zeno_elea.html

- Proof by contradiction

- Aporia – paradox
  - ✓The arrow
  - ✓Achilles and tortoise
  - ✓Bisection of abscissa







https://en.wikipedia.org/wiki/Zeno_of_Elea

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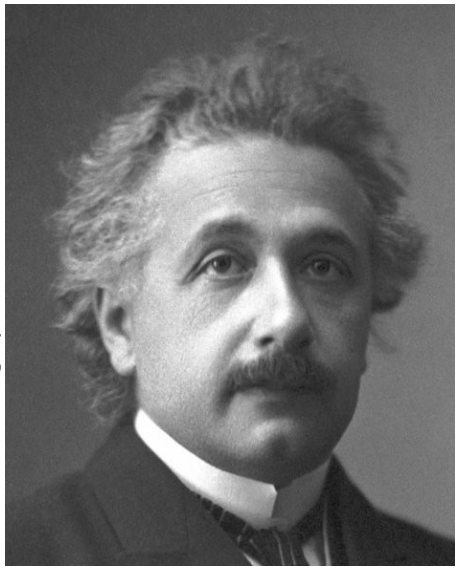
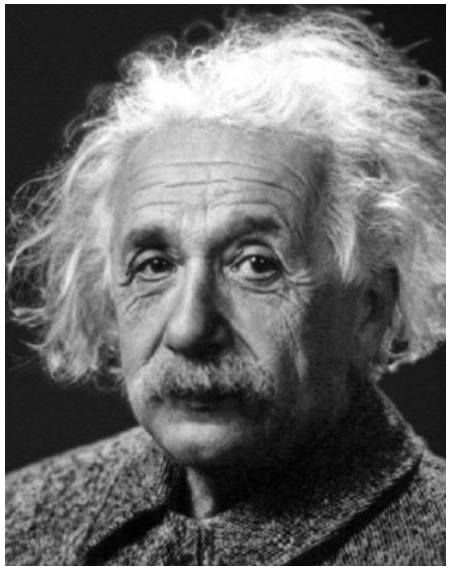
Heraclitus – Zen

✓Limits of logical thinking (argumentum ab absurd)

https://dparut.smugmug.com/Custom-Processing/Specials/i-8c2CVGn/A



https://www.nobelprize.org/prizes/physics/1921/einstein/biographical/



https://www.viva.org.uk/what-we-do/celebrity-supporters/albert-einstein

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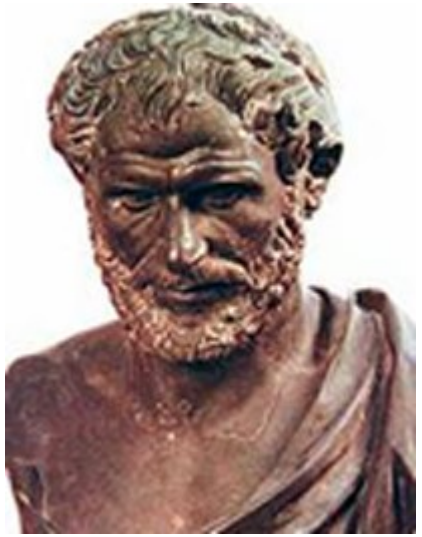
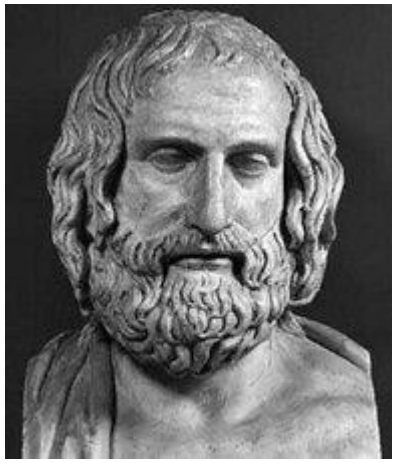
Preatomists

- Empedocles
- (c. 490 – 430 BC)
  - Synthesis of Herakleitus and Eleats
  - ✓ Everything is based on existence of four elements (Water, Air, Earth and Fire) which have been continually transformed by the powers of Love and Strife
  - ✓ One God is the origin of Motion



https://theaeoneye.com/tag/empedocles/

- Anaxagoras
- (c. 500 – 428 BC)
  - Introduced philosophy in Athens
  - ✓ Four elements replaced with the unlimited amount of elements (seeds)
  - ✓ Origin of Motion is Nus (abstract Spirit/God/Mind/Reason), which organized original chaos to logos



https://www.philosophybasics.com/philosophers_anaxagoras.html

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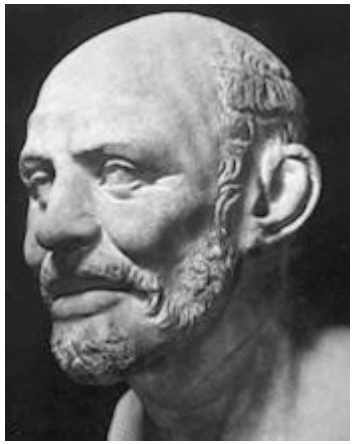
Atomists

- **Leukippos** (c. 500 – 440 BC)
- **Democritos** (c. 460 – 370 BC)

✓ The things are composed of indivisible particles (atomoi), which naturally move (fall), connect each other and disconnect (emergence and extinction of things)

✓ Everything is ruled by logos

✓ Existence of emptiness



https://www.crystalinks.com/democritus.html

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Preatomists – atomists

✓Synthesis of previous philosophy

✓The first attempt to create a system

Sophists

- **Protagoras** (c. 481 – 411 BC)
- **Gorgias** (483-375 BC)

✓ Teachers of logic and rhetoric in Athens

✓ Also focused on gnoseology and social issues (laws, economy)

✓ Emphasized the role of rhetoric and argumentation

✓ The second generation falls into formalism

https://radiozurnal.rozhlas.cz/slovaci-se-bavi-cesi-jako-brouk-pytlik-6299979

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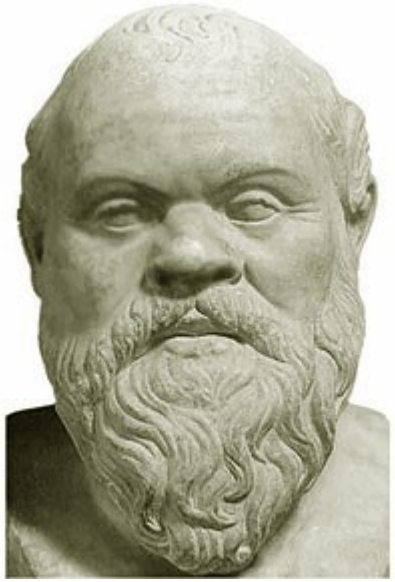
Socrates
(470-399 BC)



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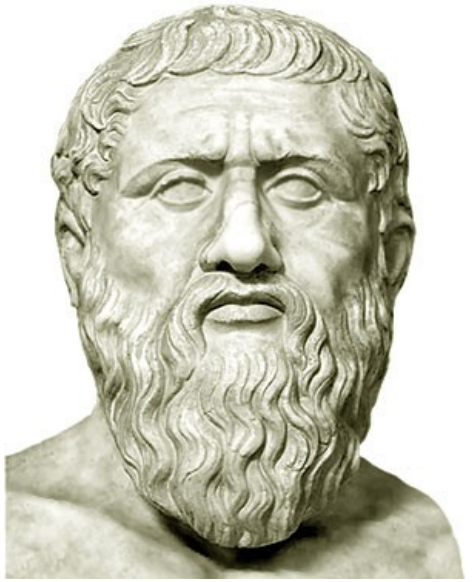
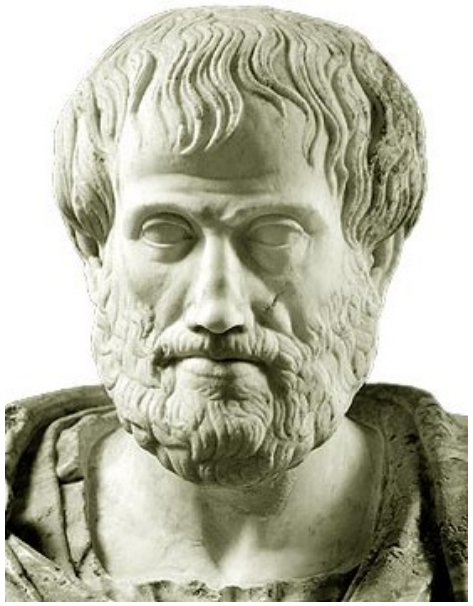
Plato
(427-347 BC)



https://www.biografiasyvidas.com/biografia/p/platon.htm

Aristotle
(384-322 BC)

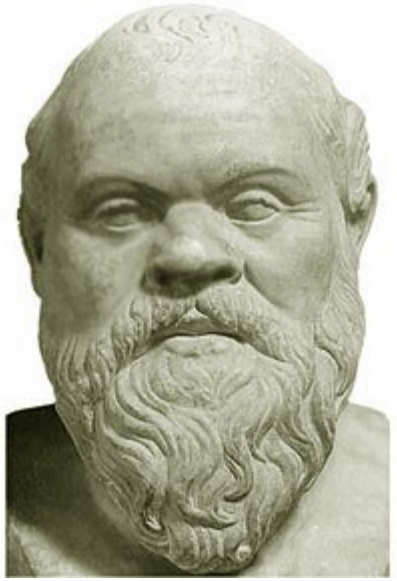


https://www.biografiasyvidas.com/monografia/aristoteles/

MUNI MED

Socrates
(469-399 BC)

- ➢Focused on ethical aspects
- ➢Not interested in cosmology or nature
- ➢ Dialectic method (dialogue)
- ✓Socratic paradoxes
  - No one desires evil.
  - No one does wrong willingly or knowingly.
  - Virtue—all virtue—is knowledge.
  - Virtue is sufficient for happiness.
  - I know that I know nothing.



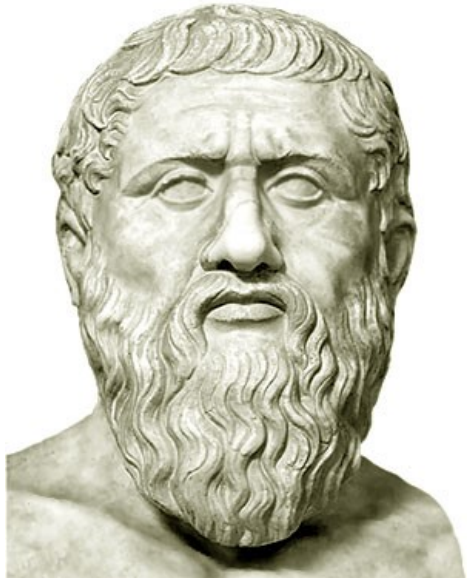
https://edukalife.blogspot.cz/2015/07/socrates-biography-greek-philosopher-is.html

MUNI MED

Plato

(427-347 BC)

- 35 -36 dialogues, letters
  - Early dialogues (Socratic)
    - ✓Socrates´ philosophy
  - Dialogues of mature period
    - ✓Platos´ ideas presented by Socrates
  - Late dialogues
    - ✓Influence of Aristotle
- Platonic academy (387-86 BC (430-529))
- Plato did not like democracy
  - ✓Democracy was responsible for the death of Socrates
  - ✓Democracy lost the war against Sparta
  - ✓Democracy is not constructive (politicians discus too much)
- Ideas



https://www.biografiasyvidas.com/biografia/p/platon.htm

CUP

https://www.vibranthome.co.uk/rice-dk-apple-green-small-melamine-kids-cup.html

Material world

Perception

Active principle Passive principle Principle of cognition

MUNI MED

CUP

Material world

Perception

http://www.ikea.com/gb/en/products/tableware/glasses-cups mugs/f%C3%A4rgrik-mug-turquoise-art-50234803/

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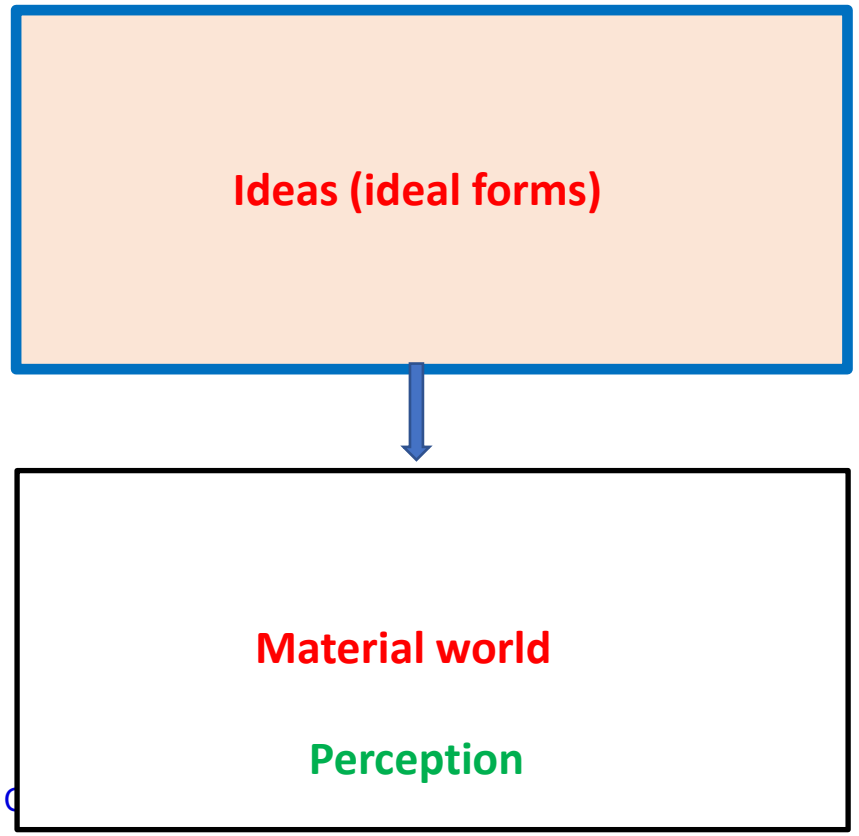

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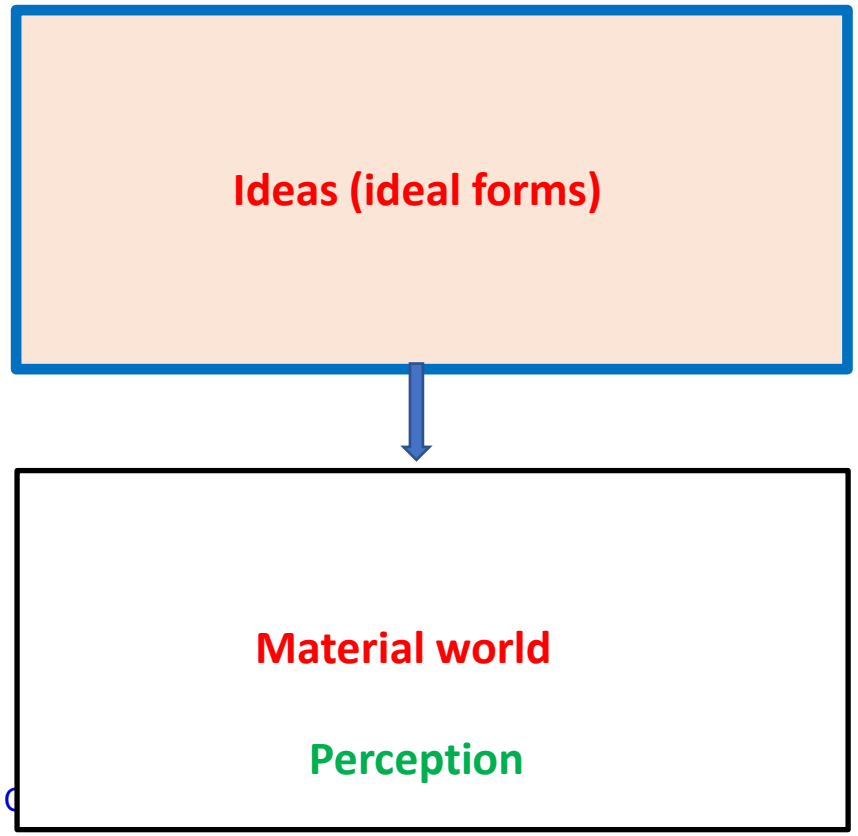
Active principle Passive principle Principle of cognition

MUNI MED



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Active principle Passive principle Principle of cognition

MUNI MED

Ideas (ideal forms)

Soul

Temporary, unstable

Material world

Perception

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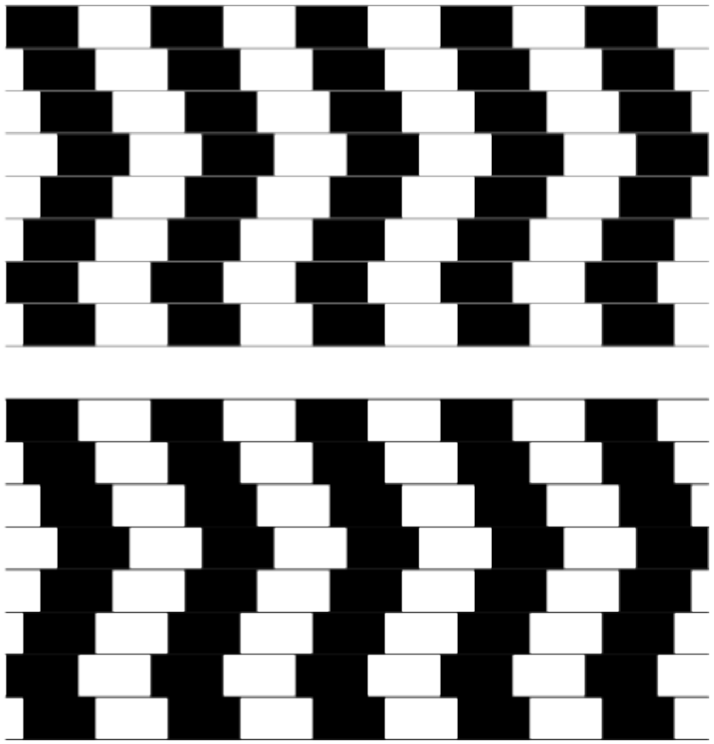
Active principle Passive principle Principle of cognition

MUNI MED

We cannot fully trust perception



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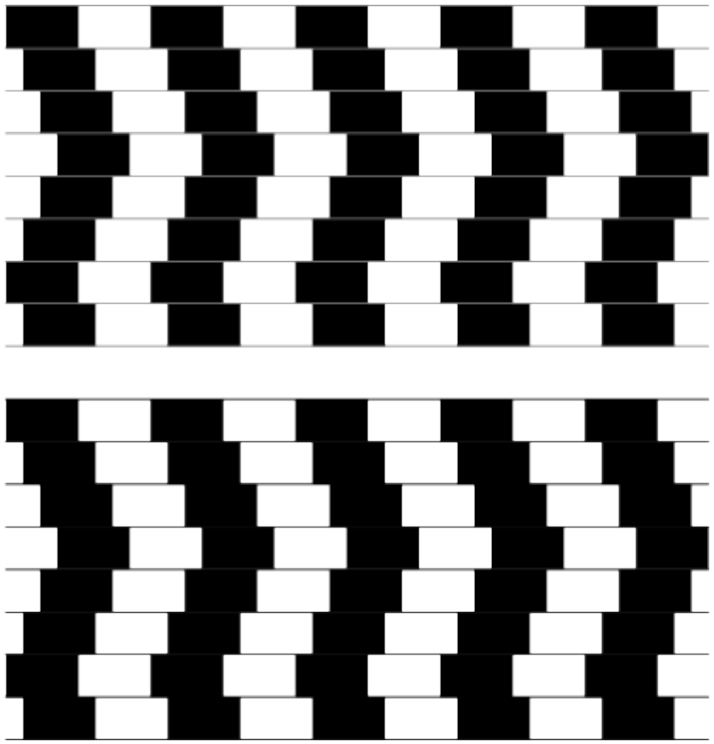
MUNI MED

We cannot fully trust perception



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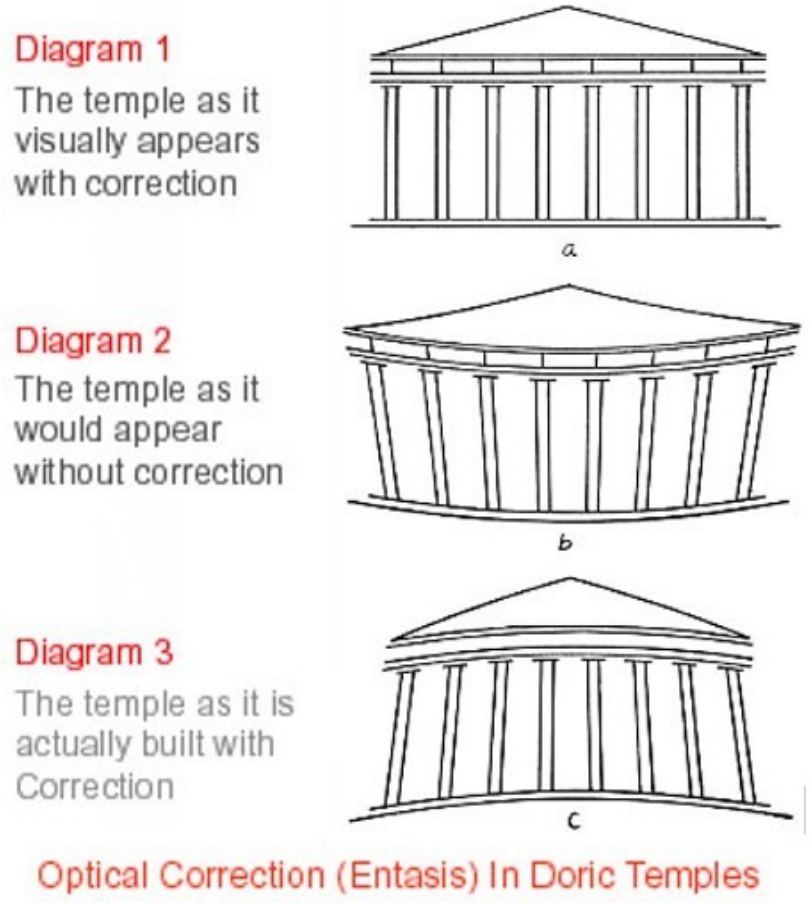

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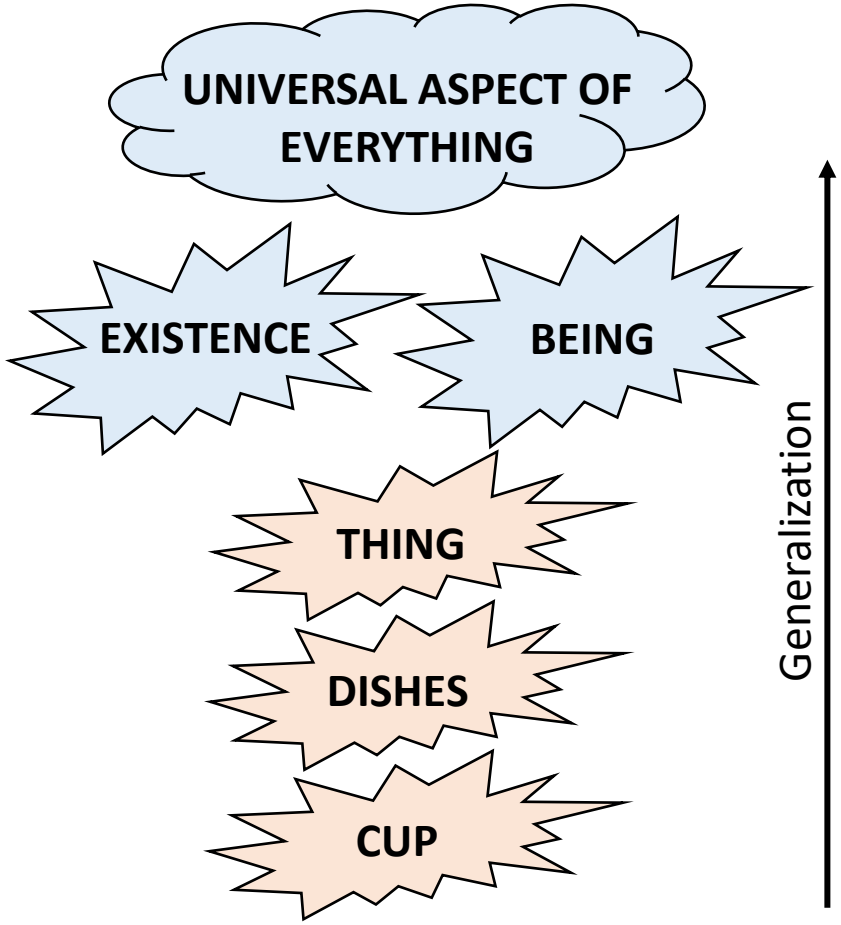

Ideas (ideal forms)

Soul

Temporary, unstable

Material world

Perception

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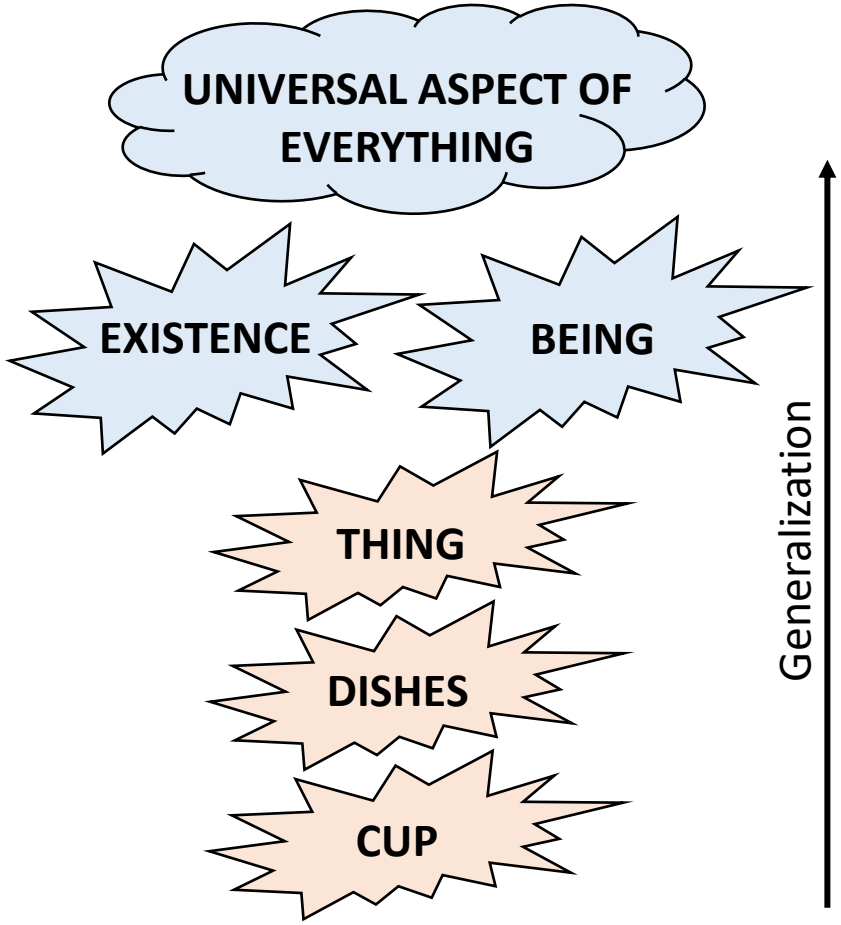
Active principle Passive principle Principle of cognition

MUNI MED



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https://www.pilina.cz/pohary-a-korbely/dreveny-korbel-s-nerezem/

One

Indeterminate Pair of big and small

Spirit

Ideas (ideal forms)

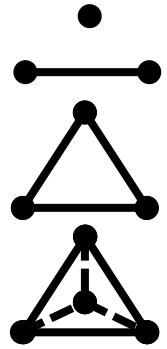
Soul

Temporary, unstable

Material world

Perception

1
2
3
4



- ✓ One is the universal principle forming everything else
- ✓ One is both the smallest part and alltogether

THING

DISHES

CUP

Generalization

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Active principle Passive principle Principle of cognition

MUNI MED

Eternal

One

Indeterminate Pair of big and small

Spirit

Eternal, created

Ideas (ideal forms)

Soul

Temporary, unstable

Material world

Perception

Active principle Passive principle Principle of cognition

1 x 1 = 1

1
2
3
4

- ✓ One is the universal principle forming everything else
- ✓ One is both the smallest part and alltogether

Generalization

THING

DISHES

CUP

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MUNI MED

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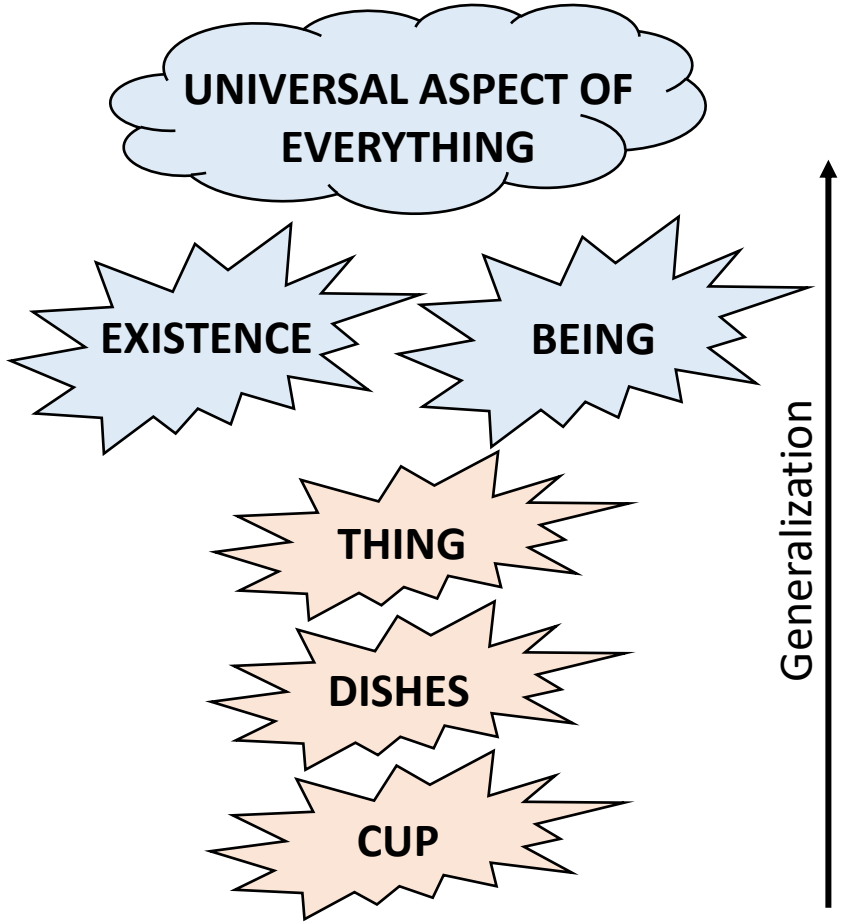
Active principle Passive principle Principle of cognition



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MUNI MED

Eternal

One

Indeterminate Pair of big and small

Spirit

Et

Ide

Tempo

Mat

Pe

UNIVERSAL ASPECT OF EVERYTHING

EXISTENCE

BEING

Generalization

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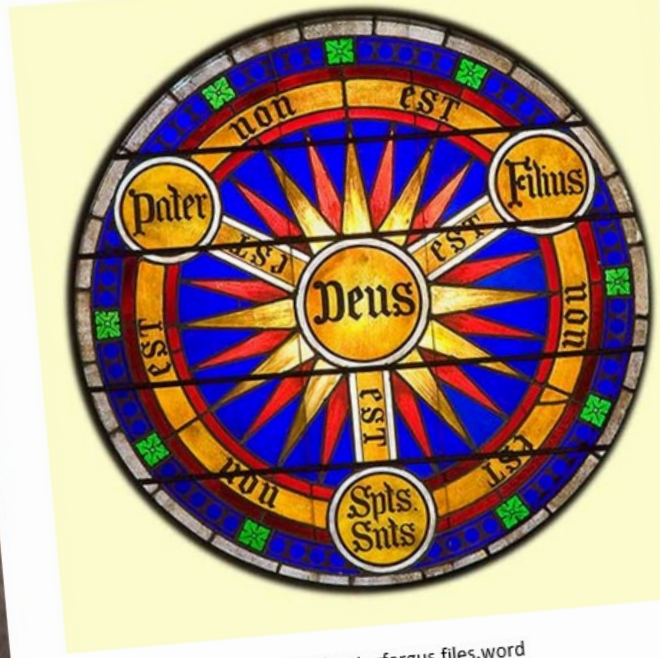

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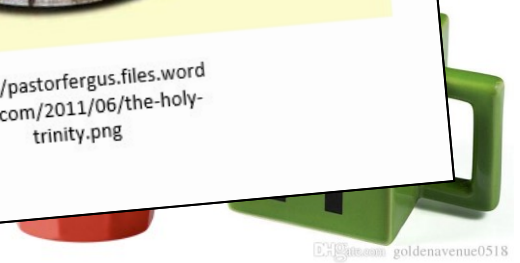

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Active principle Passive principle Principle of cognition

MUNI MED

Republic

- **Logic excercise, not meant as a guide**
- **Socratic paradox**
  - ✓ Good ideas may result in bad things when we try to implement them in their purest form
- An attempt to define ideal political systém, which would immune to such mistakes as Socrates punishment
- The citizens would be divided into the three groups according to personal qualities:
  - ✓Rulers (Philosopher Kings)
  - ✓Warriors/Guardians
  - ✓Workers
- The citizen would be paired according to their qualities (the best with the best, the worst with the worst)
  - To prevent rebelion, manipulated draw would be performed (mimicking the will of the gods)
- Children would be taken and raised institutionally
- In the last dialogue (The Laws) direct application of the laws was elaborated (no more rule of humans)

Rationalism carried out ad absurdum

MUNI MED

Allegory of the Cave (Republic)

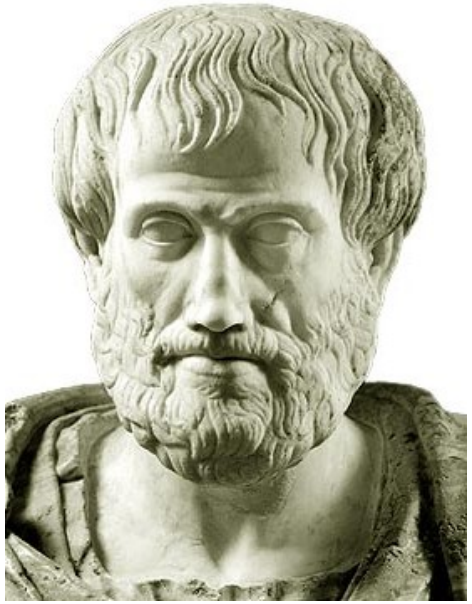
What is reality?
What we consider to be real

https://slideplayer.cz/slide/3125141/

MUNI MED

Aristotle
(384-322 BC)

- Synthesis of previous philosophy
  - A system based on Greek ideals of harmony and moderation.
  - Combined two main streams
    - ✓ Physical-materiál (Milesian-Heracleitian-Deomcrititan)
    - ✓ Logical-abstract (Pythagorean-Eleatic-Platonic)
- Rationalization, categorization
  - ✓ Logic (Organon – tool of thinking – Categories, On interpretation, Analytics, Topics…)
  - ✓ Nature philosophy (Physics, On the Heavens, History of animals, Generation of animals, Parts of animals,On the Soul…)
  - ✓ Metaphysics (First philosophy)
  - ✓ Ethics (Ethics, Nicomachean Ethics)
  - ✓ Politics and economy (Politics)
  - ✓ Rhetoric and poetics (Rhetoric, Poetics)

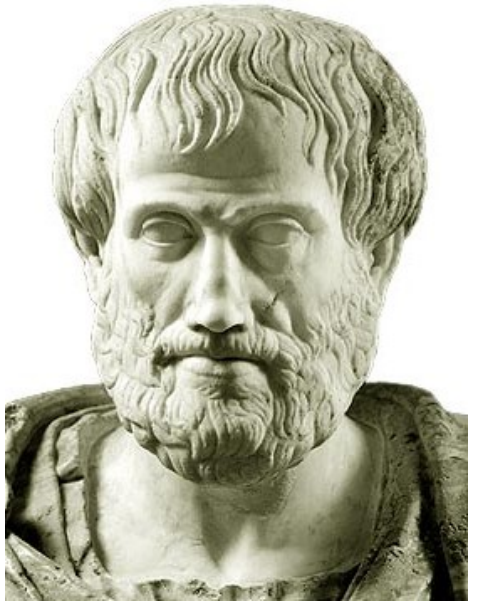


https://www.biografiasyvidas.com/monografia/aristoteles/

MUNI MED

Aristotle

- Deductive reasoning
  - Aristotle has established formal rules of deduction
  - Aristotelian syllogism
    - ✓ 1. General statement (All the men are mortal)
    - ✓ 2. Specific statement (Socrates is a man)
    - ✓ 3. Conclusion (Socrates is mortal)
- Ideas are not entities, it is just a product of reasoning
- Emphasized empirism (the most important is, according to Aristotle, tactile sensation, because all the animals have an ability of tactile sensation)
- Four causes (on the example of statue)
  - Material (marble; Milesian)
  - Formal (shape; eleats)
  - Efficient (hand of artist, pre-atomists)
  - The final cause – meaning (function of the st.; A.)
    - ✓ The most important is the final cause
    - ✓ The universe has been evolved to have a purpose and to be suitable for creation of human beings.
    - ✓ Prime mover – a primary cause - God



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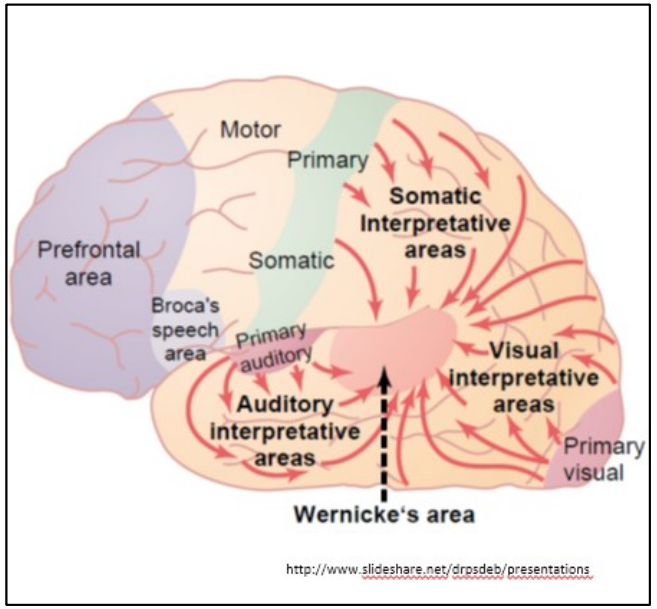
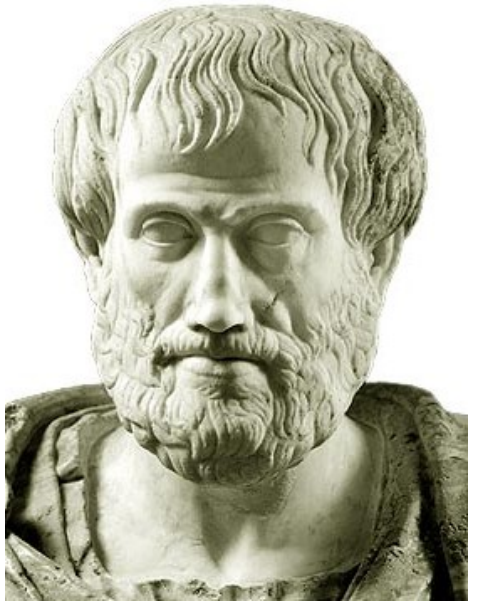


MUNI MED

Aristotle

- Theory of the soul
  - Based on relation between form (soul) and substance (body)
  - The soul is determinant which makes the body real (living)
  - Vegetative (Plants, animals, humans)
  - Sensory (Animals, humans)
  - Rational (Humans)
- Ethical aspects associated with the theory of the soul
  - Humans are rational beings and reasoning should lead to moderation, however sensoric and vegetative souls should not be supressed too much (no ascetism)
  - Golden middle way
  - The purpose of life is to develop abilities
    - Two ways
      - ✓ Ethical – reign of reason over instincts
      - ✓ Dianoetic – improving of reason
- Ideal political system
  - The form of political systém should correspond to the specific need of the nation at that time
  - The relationship between citizen and state should be based on generosity and criterion of general benefit



https://www.biografiasyvidas.com/monografia/aristoteles/

„ The whole is greater than the sum of its parts“

MUNI MED

Philosophy, science and thinking

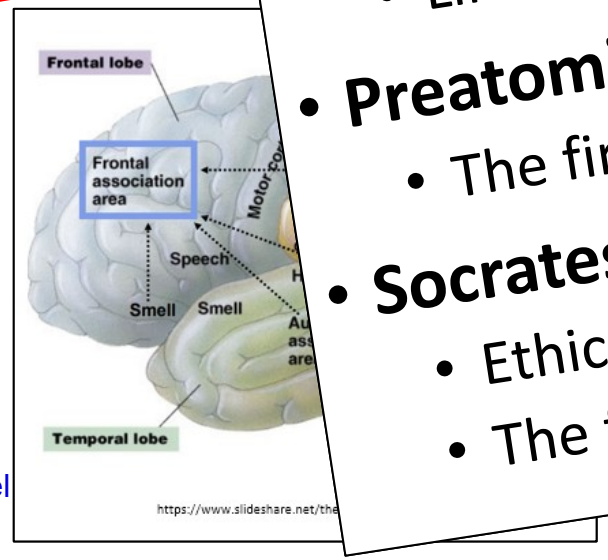
Rational
X
Irrational

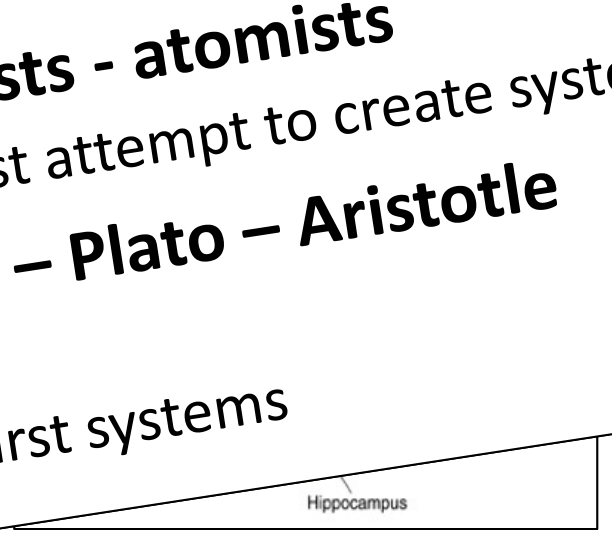
Quality
X
Quantity

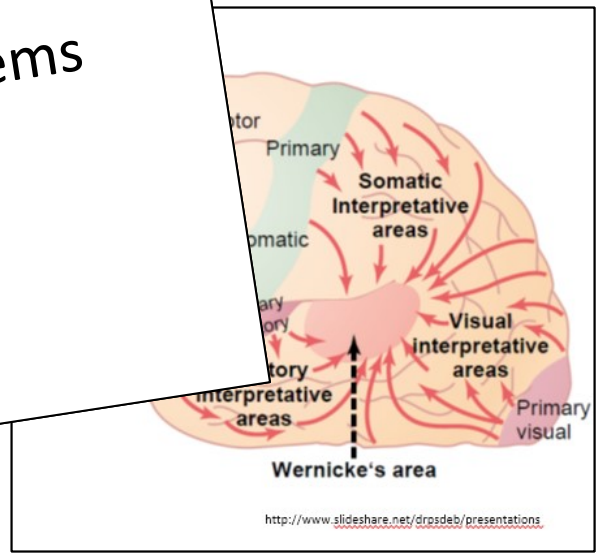
Reductionism
X
Holism

Deduction
X
Induction

- **Milesian school**
  - Reductionism
- **Pythagorean school**
  - Abstract thinking, holistic approach
- **Heraclitus – Zeno**
  - Limits of logical thinking
- **Preatomists - atomists**
  - The first attempt to create systems
- **Socrates – Plato – Aristotle**
  - Ethics
  - The first systems







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Raffael Santi – Athénská škola
(1509-1510)

http://novaakropolis.blogspot.com/2010/09/athenska-skola-rafael-santi.html

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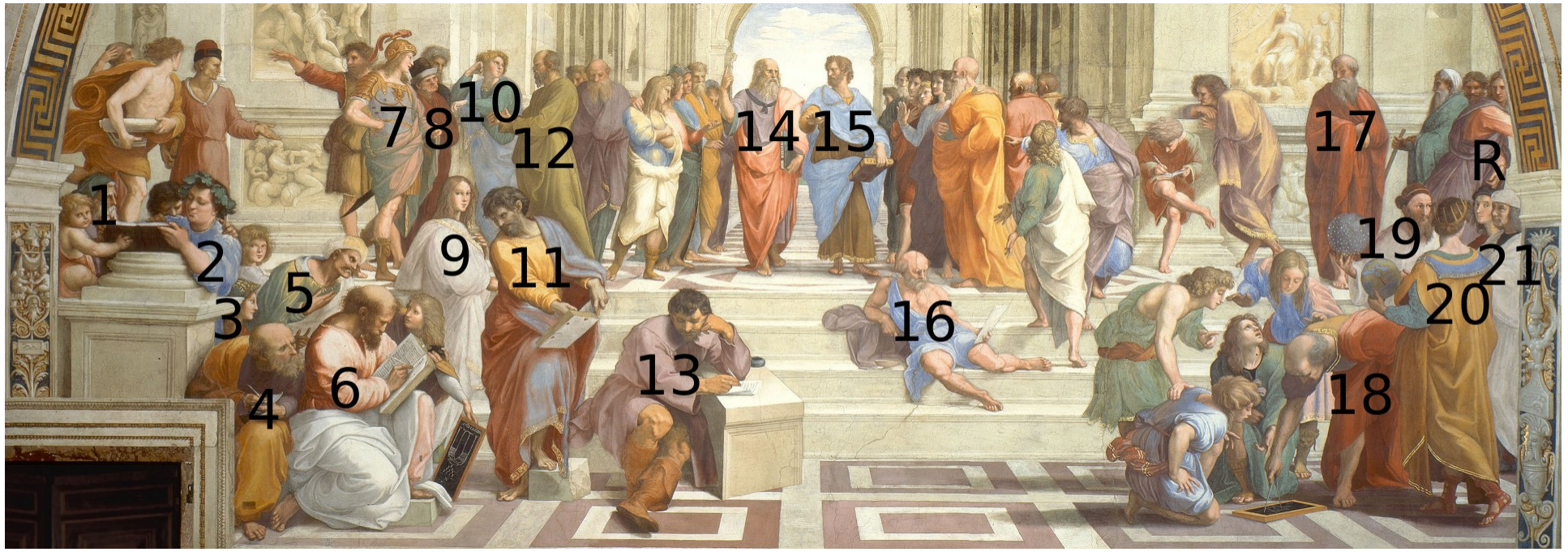
Raffael Santi – Athénská škola

(1509-1510)



1: Zeno of Citium 2: Epicurus 3: unknown 4: Boethius or Anaximander 5: Averroes 6: Pythagoras 7: Alcibiades or Alexander the Great or Pericles 8: Antisthenes or Xenophon 9: unknown (sometimes identified as Hypatia in recent popular sources) or Fornarina as a personification of Love (Francesco Maria della Rovere?) 10: Aeschines 11: Parmenides or Nicomachus 12: Socrates or Anaxagoras 13: Heraclitus (Michelangelo?) 14: Plato (Leonardo da Vinci?) 15: Aristotle (Giuliano da Sangallo?) 16: Diogenes of Sinope or Socrates 17: Plotinus? 18: Euclid or Archimedes (Bramante?) 19: Strabo or Zoroaster? (Baldassare Castiglione?) 20: Ptolemy R: Apelles (Raphael) 21: Protogenes (Il Sodoma or Timoteo Viti)

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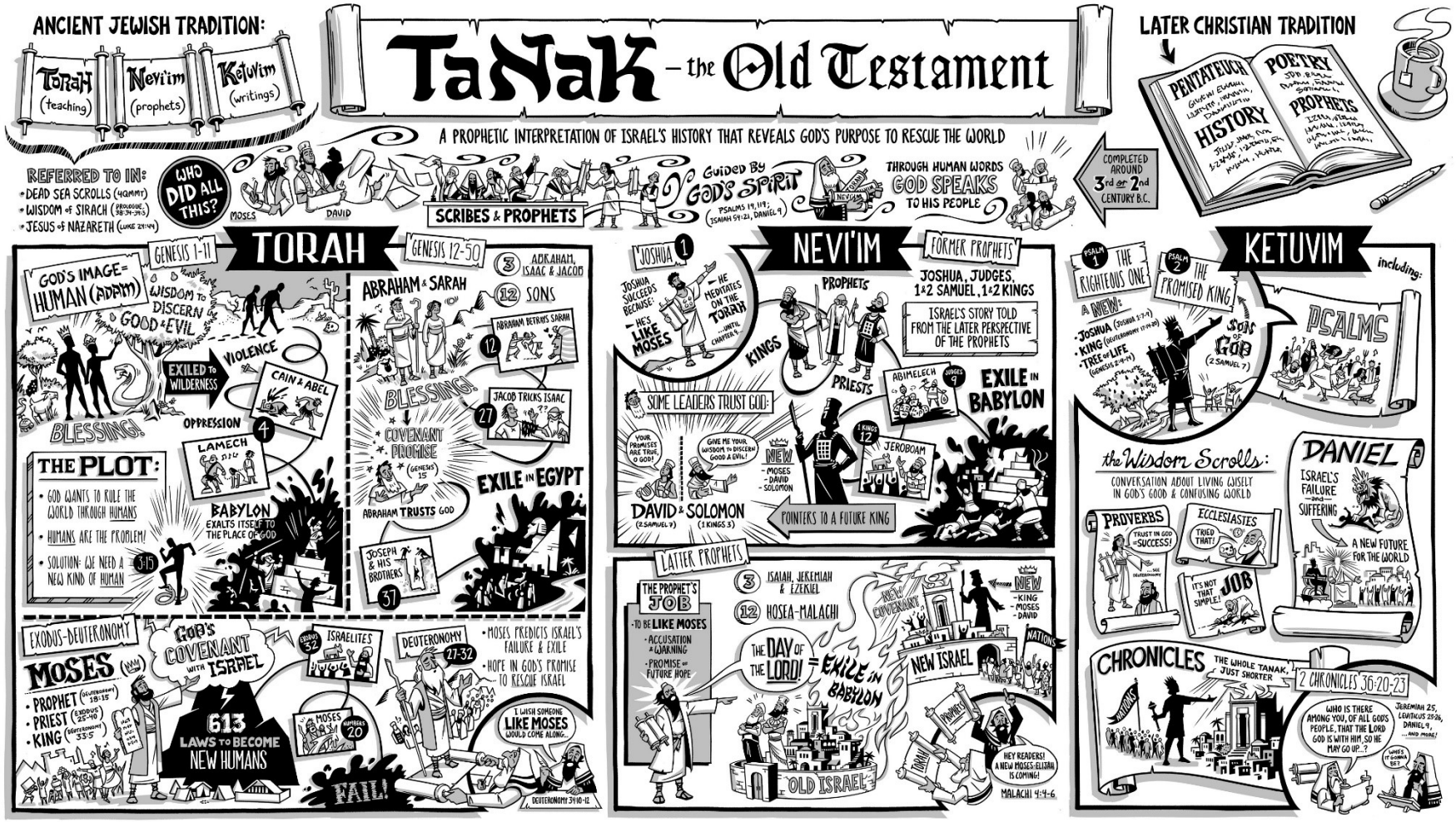
Judaism



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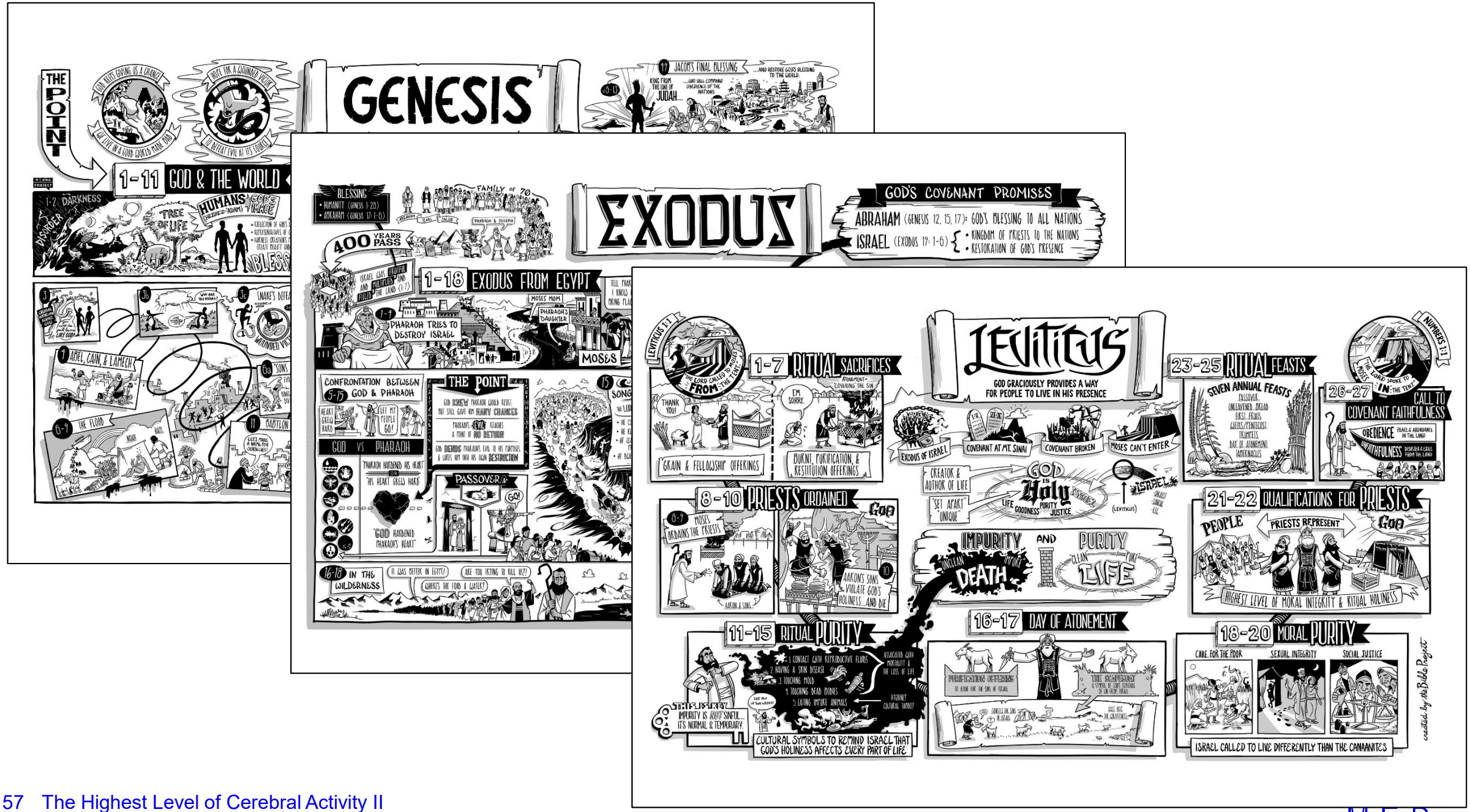

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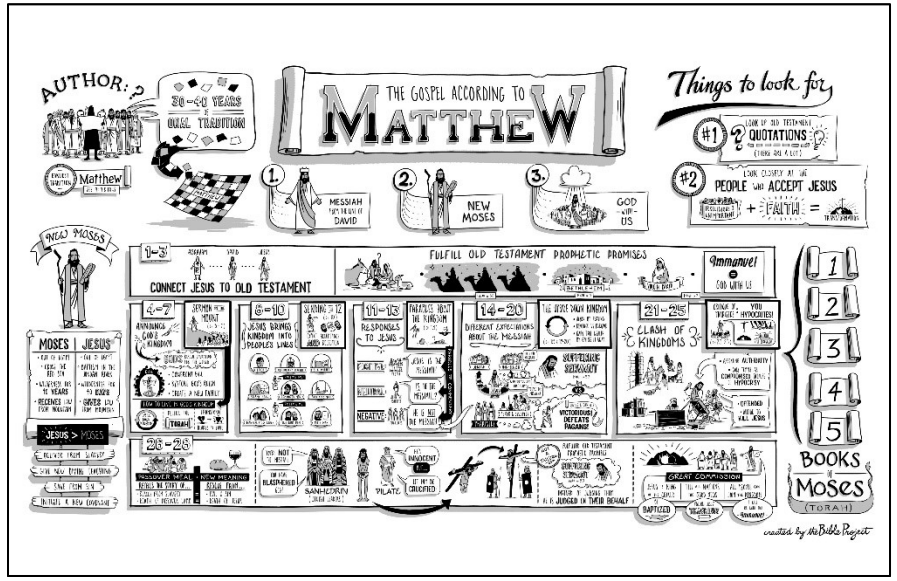
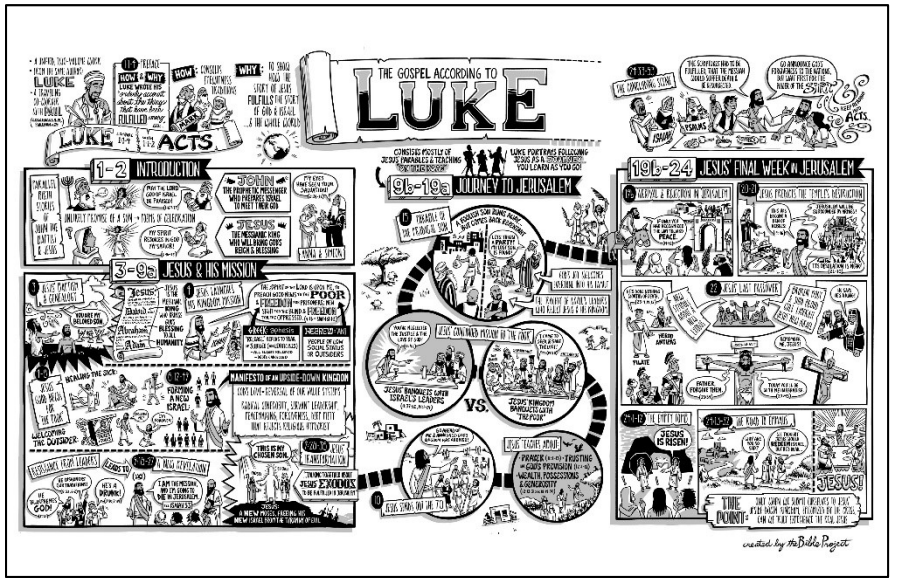
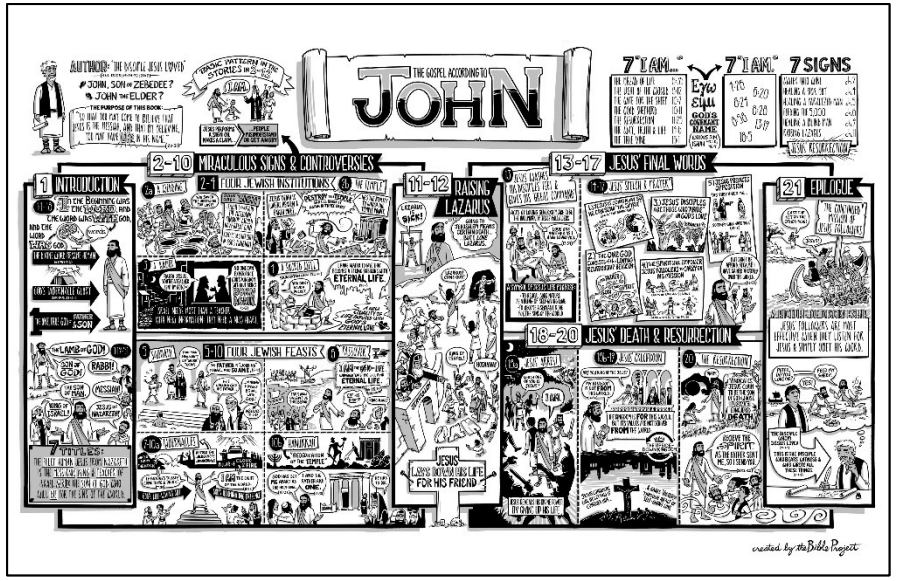
MED

Christianity







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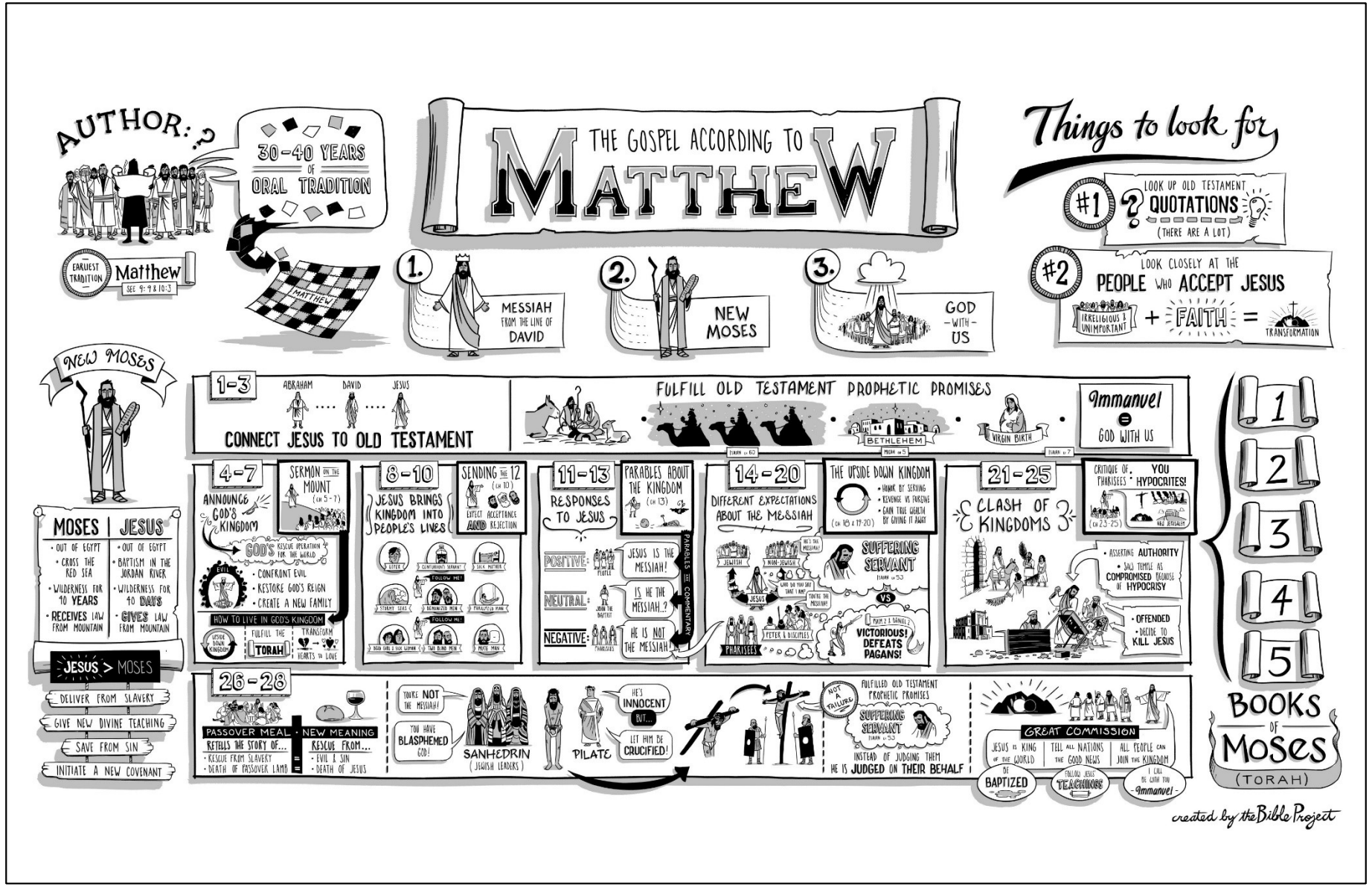
Christianity



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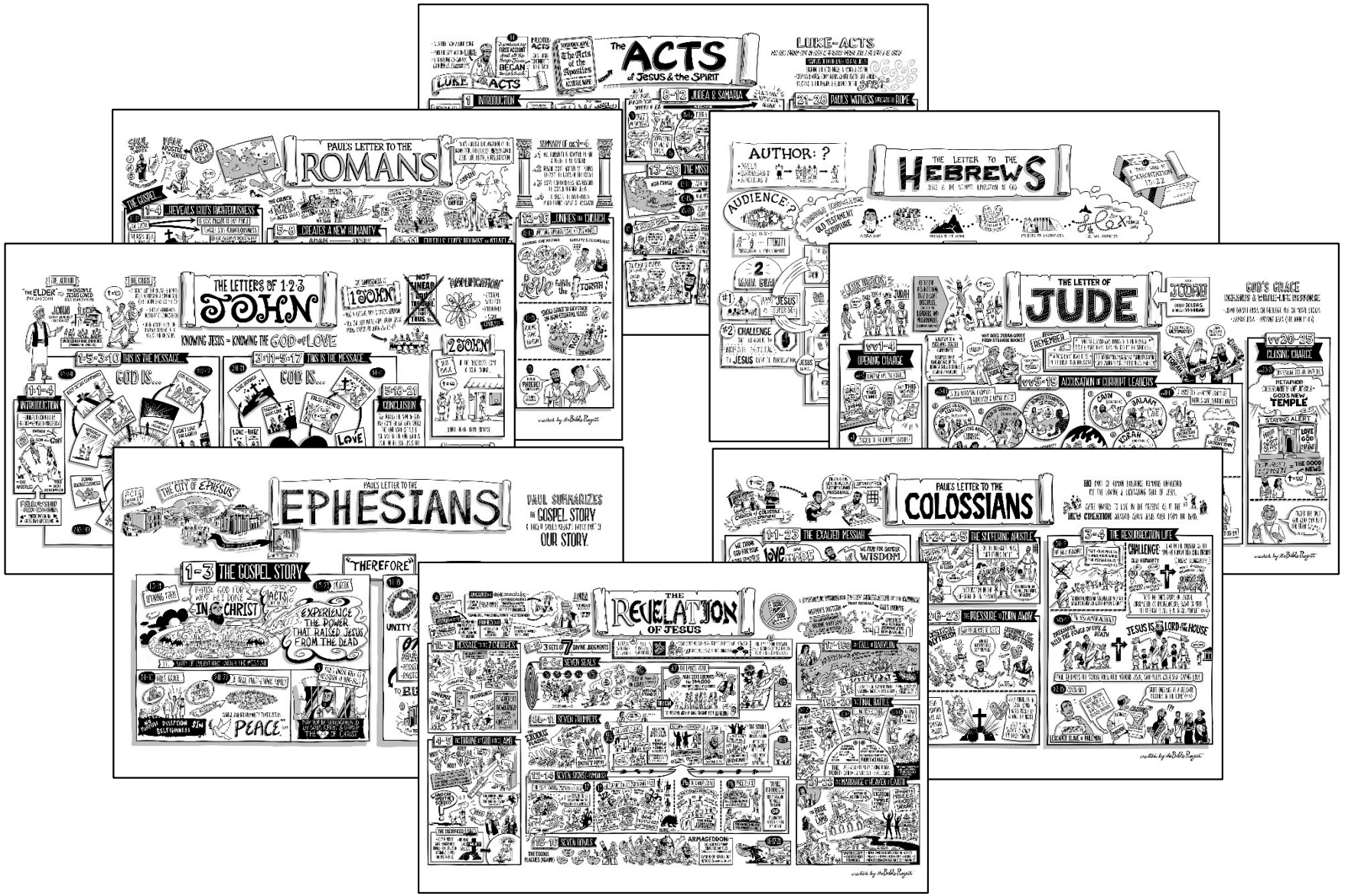

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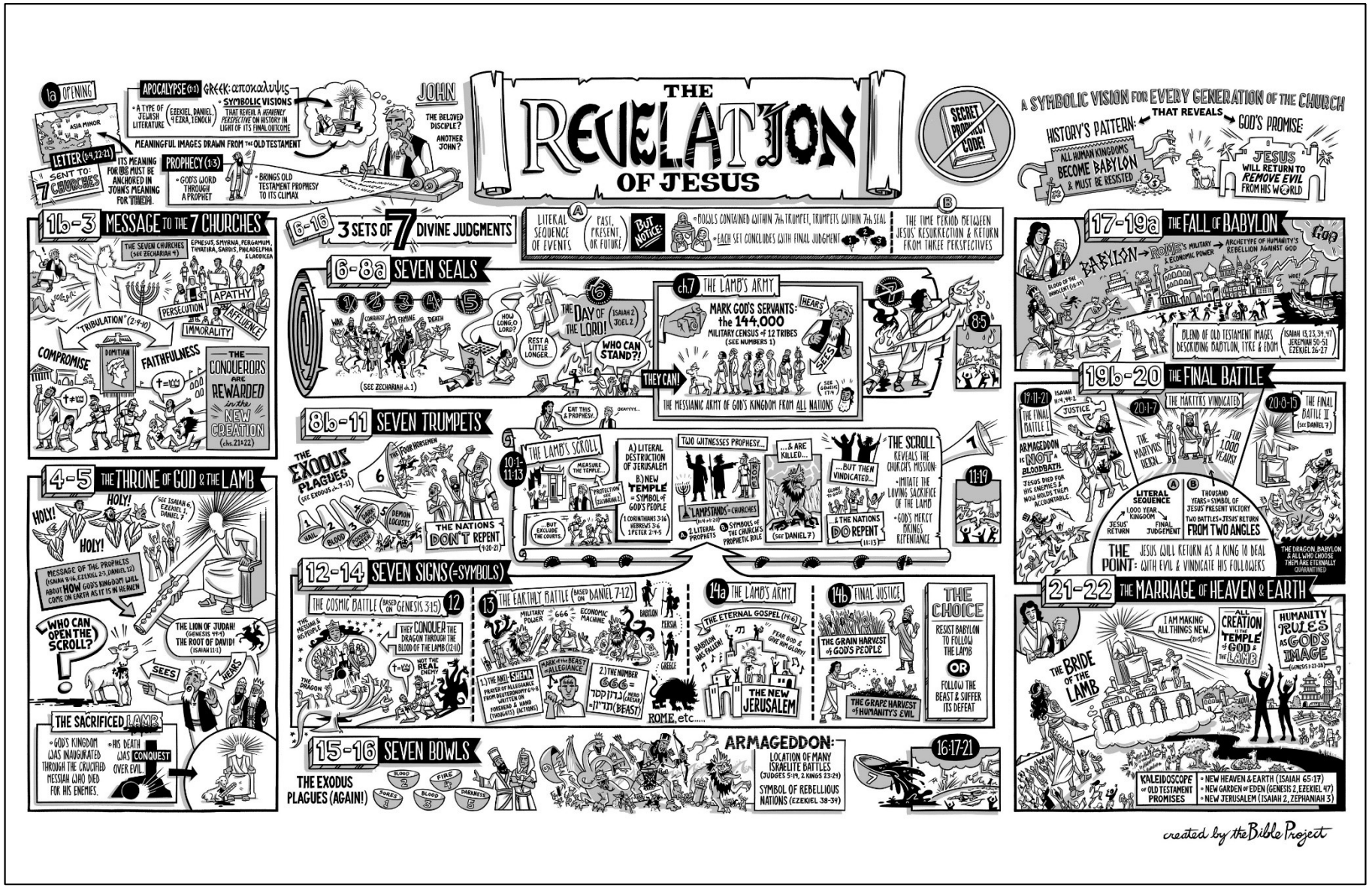
Christianity



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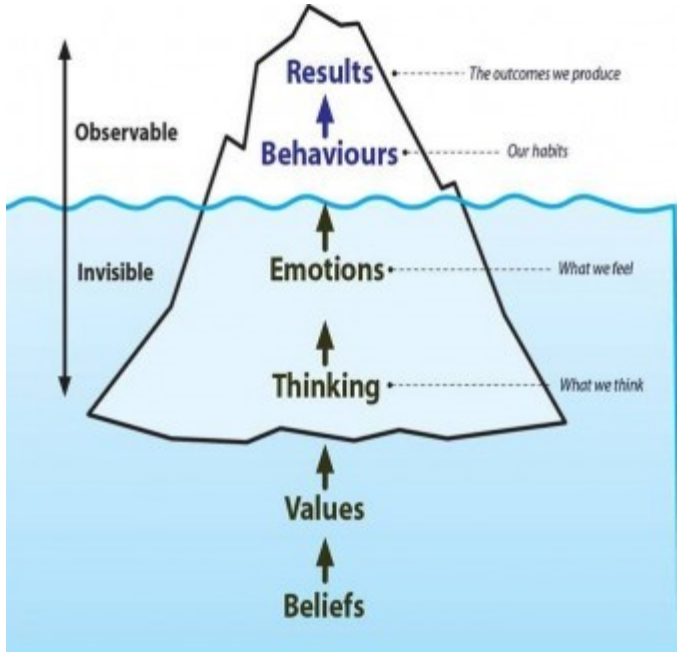
Christianity

- ✓ Jewish tradition
- ✓ Greek tradition
- ✓ (Roman tradition)



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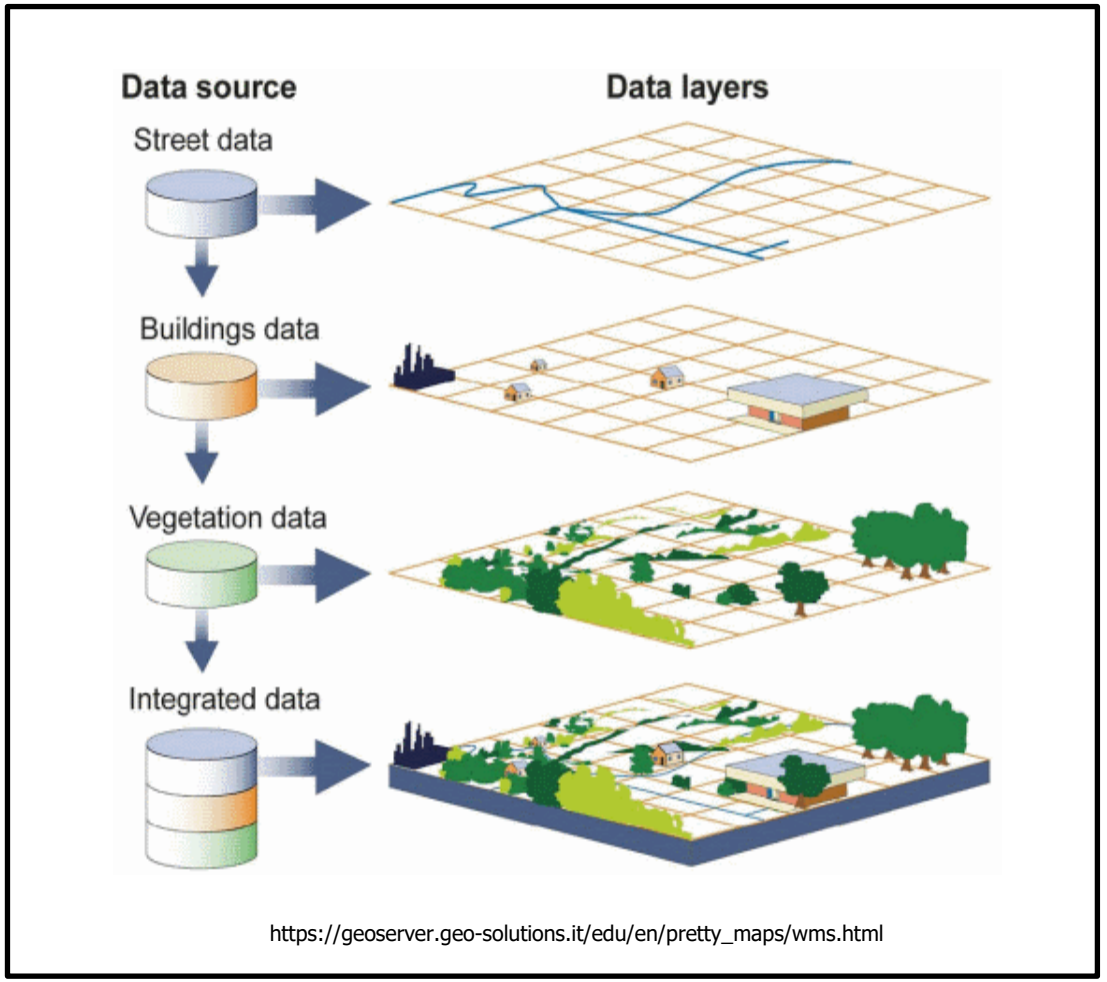

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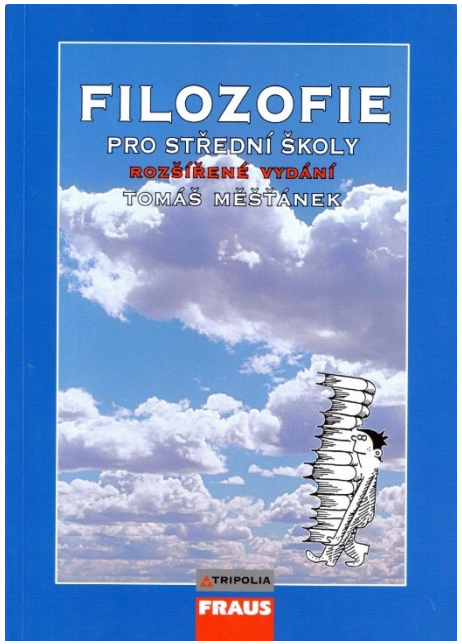

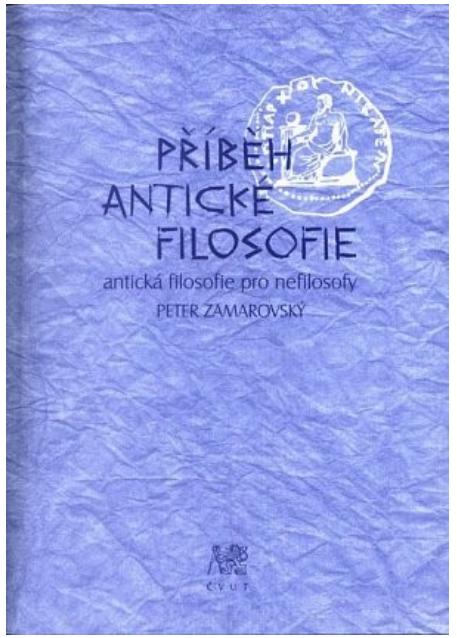

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