

## Peirce's first(?) classification of sciences (1889)

from Century Dictionary (p. 5397)

Classification "in reference to their degree of specialization":

### Science

#### (A) Mathematics

- study of the relations of the parts of hypothetical constructions
- (no observation of facts but only of the creations of our minds)

- (1) Pure mathematics
  - suppositions are arbitrary
- (2) Applied Mathematics
  - hypotheses are simplifications of real facts
    - (a) mathematical philosophy
      - theory of probabilities, etc.
    - (b) mathematical physics
      - analytical mechanics, etc.
    - (c) mathematical psychics
      - political economics, etc.

#### (B) Philosophy

- the examination and logical analysis of the general body of fact
- precedes successful dealing with special elements of universe both in reason and in history

- (1) Logic
  - (2) Metaphysics
- { Formal grammar  
 Logic proper (philosophical *trivium*, 1867)  
 Formal rhetoric

#### (C) Nomology

- science of the most general laws or uniformities

- (1) Psychology
- (2) General physics

#### (D) Chemistry

- the determination of physical constants
- the study of different kinds of matter in which these constants differ

#### (E) Biology

- study of peculiar class of substances, the protoplasm and the kinds of organisms into which they grow

#### (F) Sciences of organizations of organisms

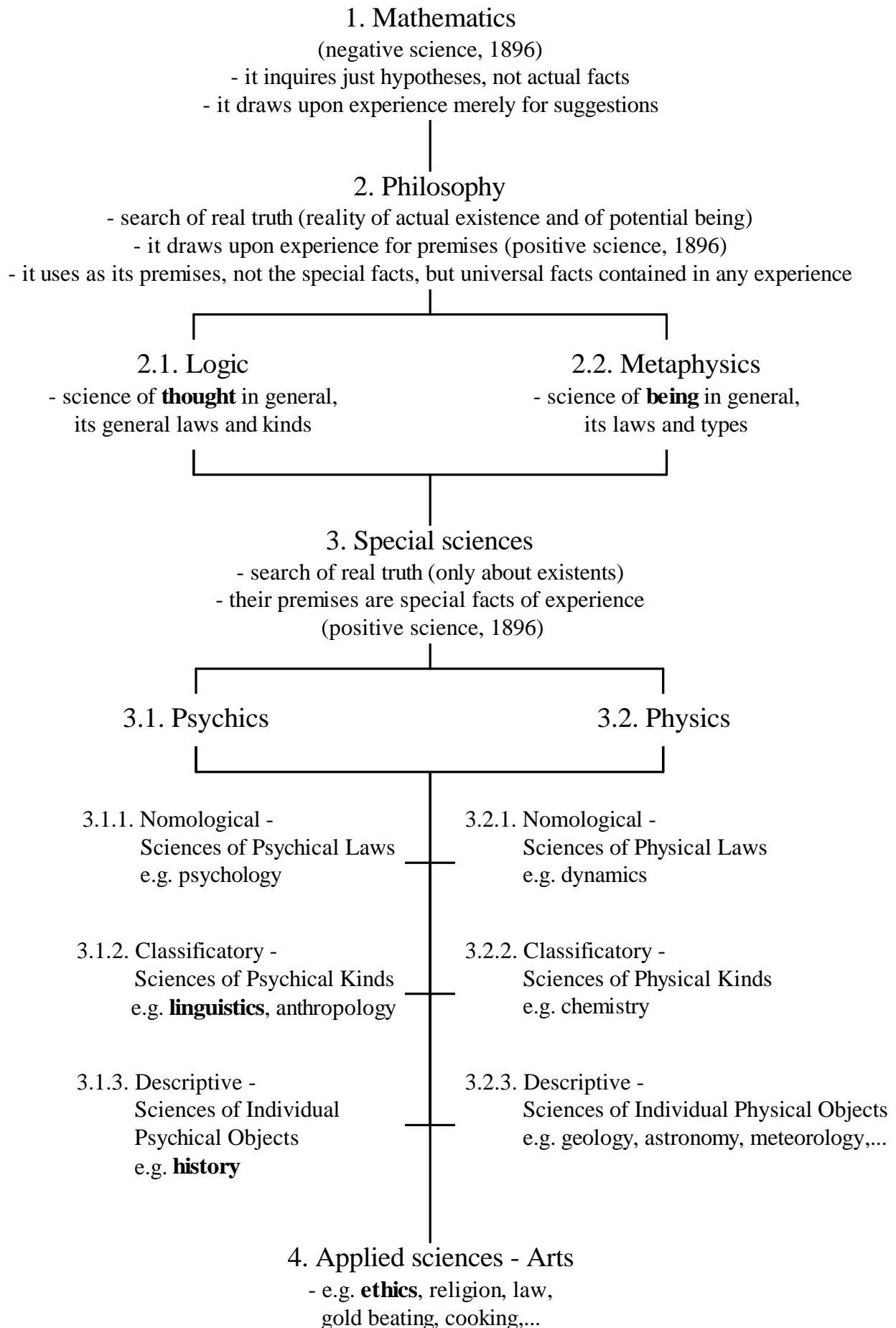
- (1) Physiology
- (2) Sociology
  - science of psychical unions, especially modes of human society
  - including ethics, linguistics, politics, etc.

(D-F)  
**Classificatory sciences (1896)**  
 (class. physics & class. psychics)

#### (G) Descriptions and explanations of individual objects or collections

- (1) Cosmology
  - astronomy, geognosy, etc.
- (2) Accounts of human matters
  - statistics, history, biography, etc.

Peirce's classification of theoretical sciences and arts (1898, EP2.35-37)  
Classification according to "the abstractness of their objects".



# Peirce's outline classification of sciences ('final version', 1903, EP 2:458-462)

