The Baconian Method

Ariel #6 Rikki #39
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Background

Age Of Enlightenment
Novum Organum

Full Title:
Novum Organum Scientiarum
“New Instruments of Science”
Separated into Book I & Book II

Author: Francis Bacon
The Baconian Method

Empiricism

3 Steps of Baconian Method

Influences on Society

Idola Mentis

"Many shall run to and fro, and knowledge shall be increased."
Daniel 12:4

Bacon is not noted for having an admirable personal character, but his rich and profound writings touched many aspects of human experience and charted the path for modern science.

“A little philosophy inclineth man’s mind to atheism, but depth of philosophy bringeth a man’s mind about to religion.”
— Sir Francis Bacon

“There are two books laid before us to study, to prevent our falling into error: first, the volume of the Scriptures, which reveal the will of God; then the volume of the Creatures, which express His power.”

— Sir Francis Bacon

SIR FRANCIS BACON
1561 - 1626

Philosophy of Science

- Credited for formulating the “scientific method”
- Induction
- Experimentation
- Interpretation of data
- Strongly opposed deduction from authority
- “Knowledge is power”; influenced the scientific revolution to follow


Idola Mentis

3 Steps of Baconian Method

Influences on Society

The Baconian Method

Empiricism
Idola Mentis

1. Idol Of The Tribe
2. Idol Of The Cave
3. Idol Of The Marketplace
4. Idol Of The Theatre
3 Steps of Baconian Method

- **Gathering of Data**
  - Known instances where the nature of heat appears to exist

- **Observation & Tabulation**
  - Table of Essence and Presence
  - Table of Absence in Proximity
  - Table of Degrees

- **Analysis by Exclusion**

- **Analysis & Generalization**
Influences on Society

- Mill’s Methods
- Age of Enlightenment
- Scientific Researches
  ex: Isaac Newton’s Principia
Empiricism

- Francis Bacon
- Inductive Reasoning

Rationalism

- Rene Descartes
- Deductive Reasoning

Inductive vs Deductive
References (Pictures)

Pic 1. <http://a3.files.biography.com/image/upload/c_fit,cs_srgb,dpr_1.0,h_1200,q_80,w_1200/MTwNjA4NjMzNzMxNzc4MDYw.jpg>
References


