



Religion, Meet Science

(Chapter 3)

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In the Beginning

The United States



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- ▶ Founded on science - logic and reason.
 - ▶ Logic and reason helped ensure religious freedom
 - ▶ This is why religious mentality was not incorporated into the Declaration of Independence

From approx. 700 C.E. to 900 C.E.

- ▶ Mu'tazilites mode of study
 - ▶ Discern God's will by studying nature
 - ▶ God speaks through nature



Figure: Mu'tazilite Science



1517 C.E.

- ▶ Martin Luther nails his 95 theses to the door of a Catholic church to protest the Church's practices
 - ▶ Protestants argued that knowledge comes from observing God's Word, not the Pope's word



Figure: Martin Luther



1518 C.E.

- ▶ Protestant polemicist St. Germain supports "do it yourself" Bible study
 - ▶ Protestants argued that knowledge comes from observing God's Word, not the Pope's word
 - ▶ Use one's own experience of the Bible to find truth
- This approach is in the same "anti-authoritarian" vein as the modern scientific approach (make observations, then come to conclusions)



Figure: Martin Luther

Early 1600's

- ▶ Puritan sympathizer Edward Coke argues that scientific laws could be studied by everyone, and could not be overruled by the crown.



Figure: Edward Coke

Late 1500's to mid 1600's

- ▶ Puritans supported a logical, antiauthoritarian approach to theology:
 - ▶ Making your own observations from the Bible and not relying on the Pope
 - ▶ Use observations to draw broader theological conclusions
 - ▶ Puritans study Mu'tazilite science books



Figure: Edward Coke

The Islamic Keepers of Science



Islam was the leader in scientific knowledge up through the 15th century. With the largest scientific university at the time, they were able to translate and communicate all aspects of math and science to all different languages and religions. However, when the Renaissance began, a religionist culture switch in Islam made God more popular than science and their scientific advances came to a halt while European scientists and philosophers took over.

The DNA of Western Thought



Western Christianity is composed of two main groups:

1. Roman Catholicism
2. Protestantism

Descartes vs. Bacon

Descartes



Descartes focused on the "mind-body split"

- ▶ Said that conclusions are only valid if they follow logically from the premise
- ▶ "I think therefore I am" - *Renee Descartes*
- ▶ Wanted to embrace skepticism
- ▶ Said that senses are unreliable and a source of untruth and illusion

Only reliable from a mind that was separate from the body



Bacon focused on science and published a "New Instrument of Science"

- ▶ Inductive reasoning -
From bottom up, observing with senses and then building logical steps to reach a general conclusion about reality
- ▶ His method is "Flawed" because conclusions are provisional and leave room to be disproved

Bacon's method is good for science because it

- ▶ contains a provisional "probably" statement
- ▶ shows how math and science have become important, quantifies whether a relative probability is T/F



Francis Bacon's method of scientific thought states that Conclusions are made because they are supported by all the facts observed so far. This is very similar to the Puritan method of thinking regarding philosophy and religion.



- ▶ Since Protestantism was a protest against Catholic authority, Puritans disliked Catholic indictments or Christian fundamentalism.
 - ▶ Indictment of Galileo
 - ▶ Disliked denial of opinions supported by observation of nature, therefore evidence of God's will, because it conflicted with scripture
- ▶ Believed the Church of England was too Catholic
 - ▶ Demanded a new translation of the Bible in 1604 (the "King James" version)
 - ▶ Believed having a monarch that was also the head of a church was incompatible and hypocritically self-serving
- ▶ King Charles I's reintroduction of Catholicism to England and similar absolutism behavior led to Puritan migration to America



- ▶ Edward Coke
 - ▶ While in Parliament he attempted to limit the king's powers, including writing the Petition of Right, which laid out these basic rights the US would later adopt:
 1. Taxes levied only by Parliament not by the king
 2. No martial law in peacetime
 3. Soldiers could not be forcibly housed by civilians
 - ▶ Influenced the English Civil Wars and led to the Restoration of the Church of England and tolerated Puritanism
Due to Puritanism encouraging individual liberty, many great scientists were members
- ▶ Isaac Newton
 - ▶ Wrote *Mathematical Principles of Natural Philosophy*
 - ▶ Influenced Thomas Jefferson's writing in the Declaration of Independence

The Scientist-Politician

Thomas Jefferson



- ▶ Appointed by the Continental Congress to draft the Declaration of Independence, Jefferson was heavily influenced by Isaac Newton and Edward Coke's writings to establish:
 - ▶ A limit on the power of a monarch by writing a document for the US that was based on knowledge and reason, not God
 - ▶ A country based on the rule of men, a democracy, which would be appealing to people of all religions and denominations as one would not have power over the others
- ▶ As president he commissioned the Lewis and Clark expedition. He received support for it from Congress by presenting it as an economic initiative, but in reality he ordered Lewis to undergo the journey as though it were a scientific expedition.

How Do We *Know* Things?

(auth. Brennan Fieck)



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Seventeen Days in June



- ▶ Jefferson strove to create a scientific foundation for democracy
 - ▶ By allowing all to discover truth through this scientific method, no one person "knows" the truth better than another, creating an equal field
 - ▶ If everyone can find this same democratic truth, no one has the right to impose their beliefs on another
- ▶ Worked for 17 days to attempt to create a logically infallible document by combining his ideals of science, knowledge, freedom and democracy
- ▶ Would give the people the right to reject authoritarian tyranny as illegitimate on the grounds of logic and the scientific method
- ▶ First draft of the document had trouble with including authoritarian religious assumptions