

A Brief History of Photography

Introduction to Digital Photography

DISCLAIMER

This
presentation is
rated:

PG13

This presentation is rated PG 13 by the Motion Picture Association of America for controversial subject matter and nudity. However, since these topics are presented in a Fine Arts class, it is okay.

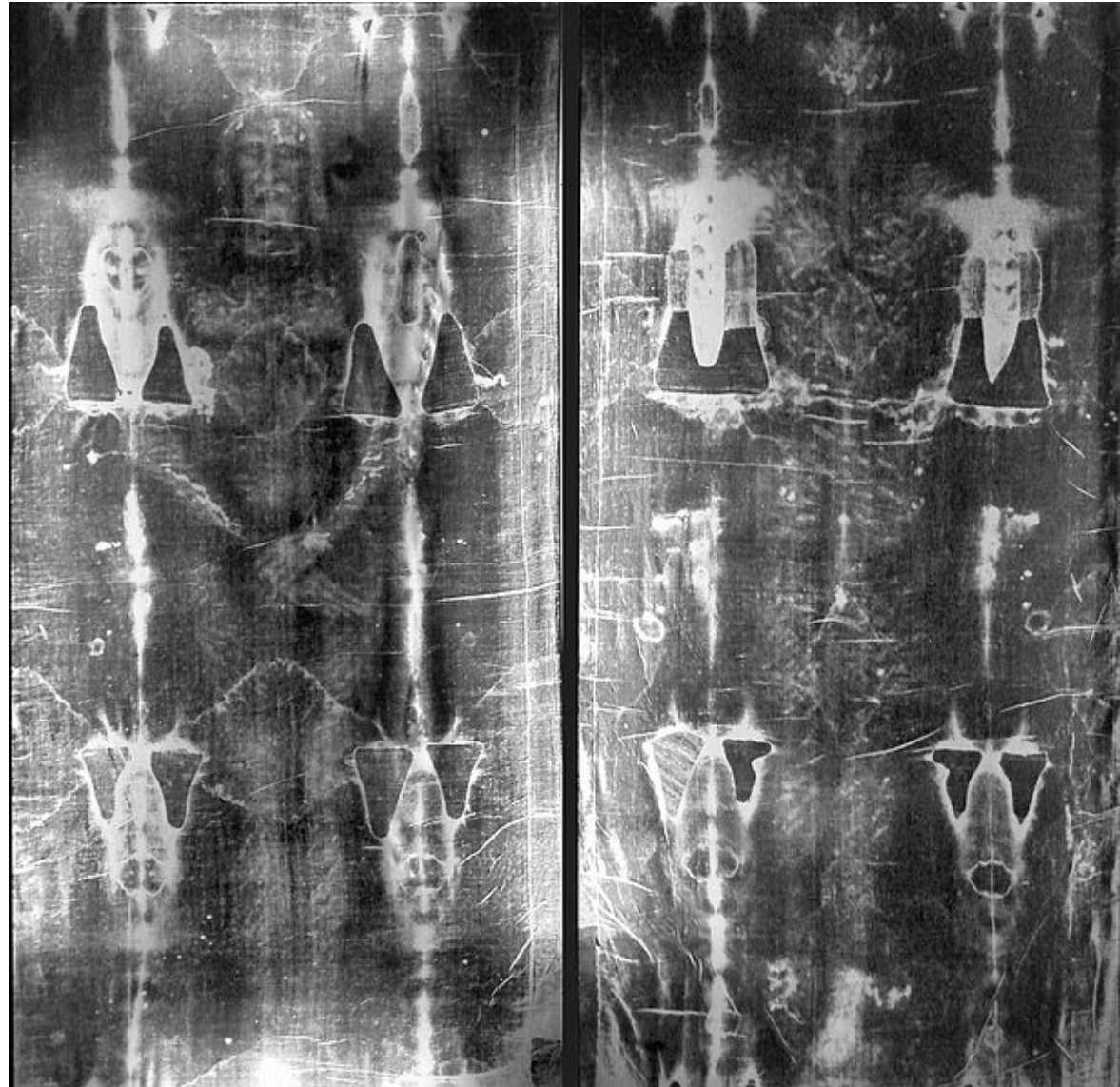
If you think you might be uncomfortable viewing the material of this presentation at this time, please feel free to leave the class. See you next week.

Development of Photography

- When was the first photograph made?

Development of Photography

- World's first photograph?
 - Shroud of Turin might be the world's oldest photograph.
 - Nicholas Allen describes techniques in PhD thesis.

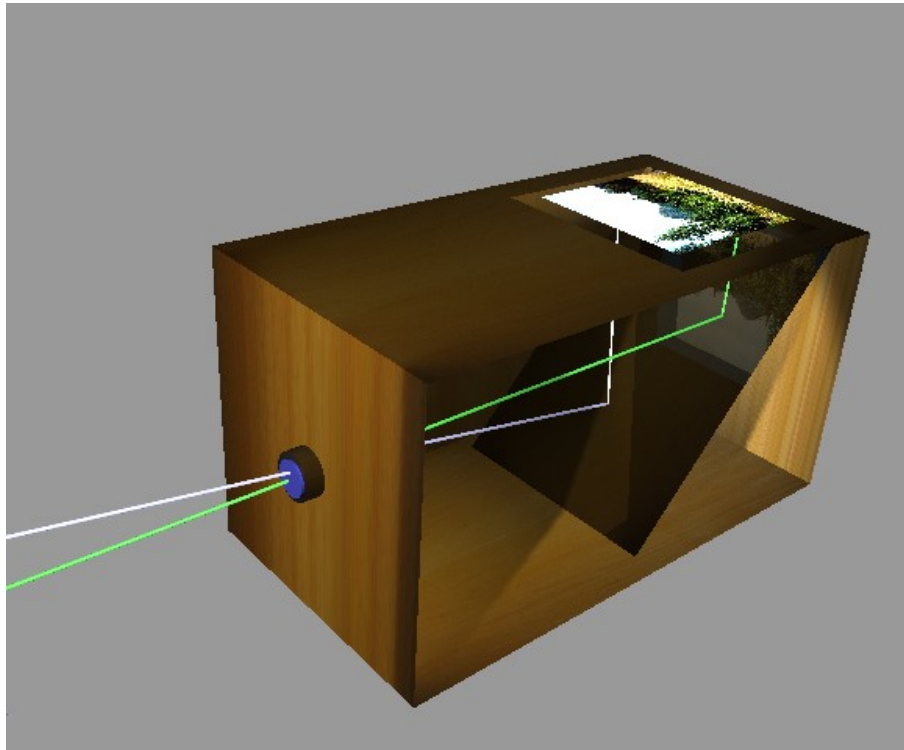


Development of Photography

- 5th & 4th centuries BCE: Chinese philosopher Mo Ti, Greek mathematicians Aristotle and Euclid describe a pinhole camera
- 6th century: Anthemius of Tralles used a form of camera obscura
- 10th century: Ibn al-Haytham studies the pinhole camera and camera obscura, writes the *Book of Optics*

Development of Photography

- camera obscura box, room (off Central Park, NYC)

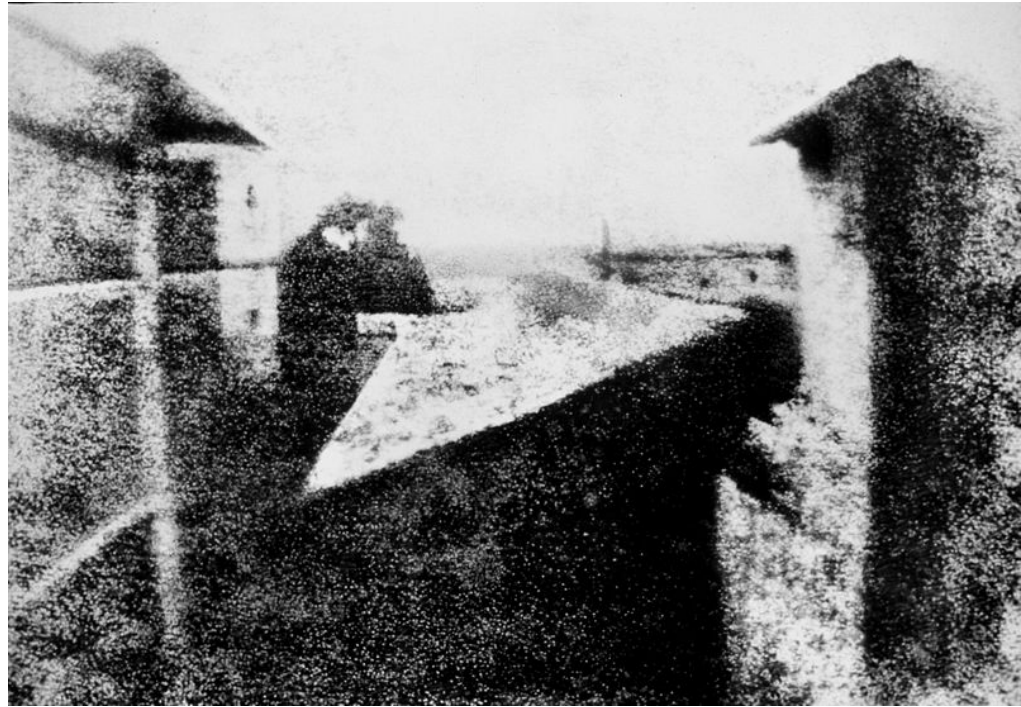


Development of Photography

- Albertus Magnus (1206-80) discovers silver nitrate (precursor for discovering silver chloride [discovered by Georges Fabricius (1516-71)], used for making photographic paper)
- Daniel Barbaro describes a diaphragm (1568)
- Wilhelm Homberg describes how light darkens some chemicals (photochemical effect) in 1694

Development of Photography

- Joseph Nicéphore Niépce
 - First permanent photograph (1826), later destroyed
 - Died in 1833
 - Worked with Louis Daguerre developing silver process



View from the Window at Le Gras (c. 1826)

<http://en.wikipedia.org/wiki/>

File:View_from_the_Window_at_Le_Gras,_Joseph_Nicéphore_Niépce.jpg

Development of Photography

- Louis Daguerre
 - First commercially (economically) viable photographic process using silvered copper plates (daguerreotype)
 - French government buys patent, immediately puts it into the public domain



Boulevard du Temple (c. 1838/9)

http://upload.wikimedia.org/wikipedia/commons/thumb/d/d3/Boulevard_du_Temple_by_Daguerre.jpg/640px-Boulevard_du_Temple_by_Daguerre.jpg

Development of Photography

- Fox Talbot
 - Developed calotype (1840) using paper, improvement on Daguerre's method
- George Eastman
 - Refines Talbot's method, foundation of modern film camera
 - 1901: Kodak Brownie camera, first mass market camera

Development of Photography

- Willard Boyle & George Smith / AT&T Bell Labs
 - Charge-coupled device (CCD) invented (1969)
- Bryce Bayer develops Bayer filter mosaic pattern (1975)
- Kodak develops first megapixel sensor (1986)

Development of Photography

- First digital camera (Kodak) (1975)
- 0.01 Megapixels
- Black and white only
- 23 seconds to record image to data tape



Development of Photography

- Tim Berners-Lee
 - First digital image posted online (1992)



http://en.wikipedia.org/wiki/File:Les_Horribles_Cernettes_in_1992.jpg

Photographic Techniques

- Stereophotography: Venus au Bain (c. 1850)



Photographic Techniques

- Photocomposition: The Two Ways of Life (1857)



Photographic Techniques

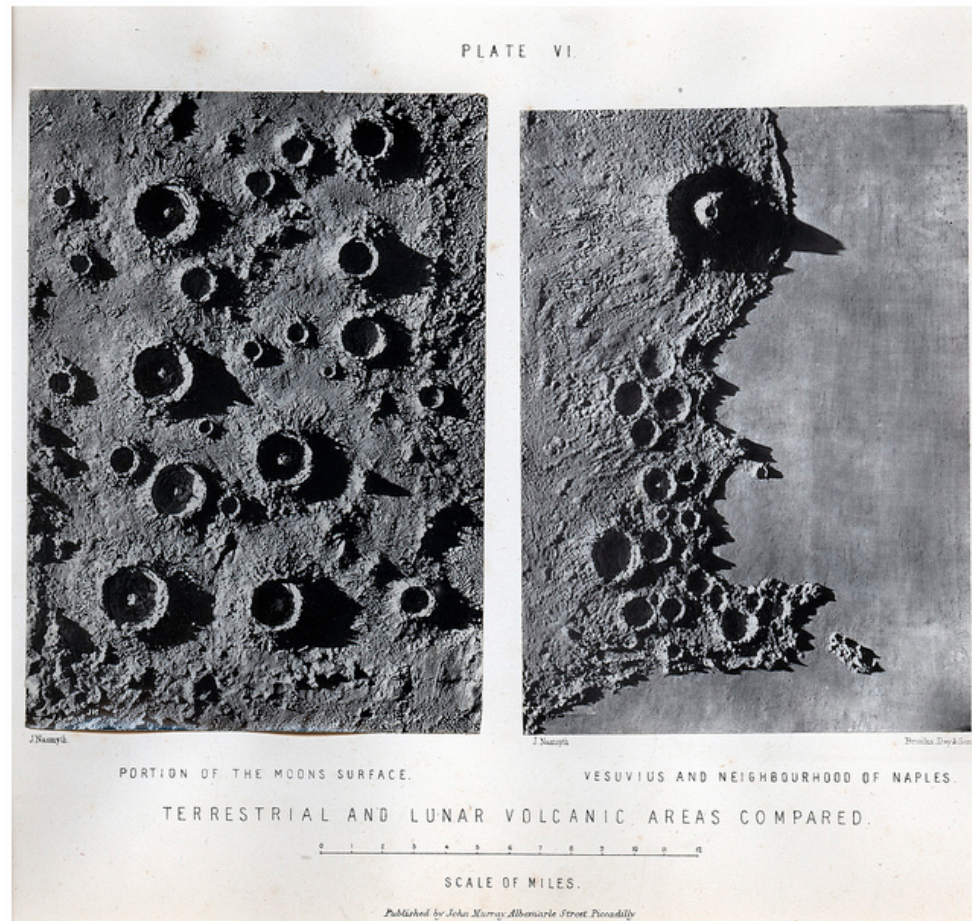
- Photojournalism: Alexander Gardner (Civil War)



Entered according to act of Congress, in the year 1862, by Alex. Gardner, in the Clerk's Office of the District Court of the District of Columbia.

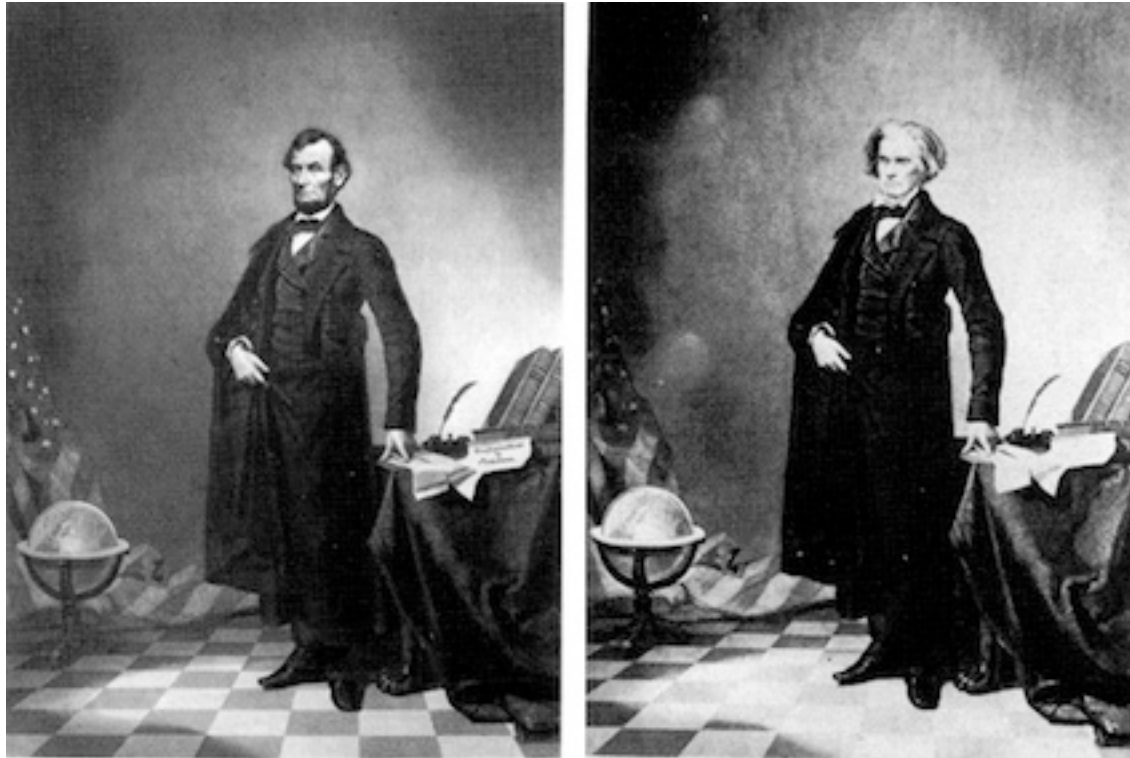
Photographic Techniques

- Science: Carpenter & Nasmyth (1874)



Photographic Techniques

- Hoax: Lincoln – Calhoun 1860



Photographic Techniques

- Darkroom manipulation: Ansel Adams



Photographic Techniques

- Darkroom manipulation: Ansel Adams

