Computers and Government

By: Liam Walsh
History before 1900s

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  - French tax collector’s son
  - numerical wheel calculator
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- Herman Hollerith - 1889
  - Faster US census
  - Cards
    - Up to 80 variables
    - 6 weeks instead of 7 years
History during WW2

- Konrad Zuse - 1941
  - Z3 - airplanes and missiles
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- Howard H. Aidken - 1944
  - Mark I
    - all-electronic calculator
    - ballistic charts for US Navy
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  - Mark I
    - all-electronic calculator
    - ballistic charts for US Navy

- John Eckert and John Mauchly - 1943 - 1945
  - Electronic Numerical Integrator and Computer
    - general-purpose computer
    - 1,000 x faster than Mark I
The Space Race

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  - Launched Sputnik
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● Apollo 11 - 1969
  ○ Landed on the moon
Societal Problems

- Privacy (NSA)
  - 2011 - 2012: 2,776 reported violations
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● Government Vulnerability
  ○ US Government Hacked - 2015
    ■ Largest data breach in US
    ■ over 21 million people exposed
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- War Ethics
  - Drone Strikes
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- **War Ethics**
  - Drone Strikes
- **Net Neutrality**
  - 5 Republican presidential contenders against NN
  - Majority Republicans and Democrats for NN
Solutions?

- Privacy (NSA)
  - Less freedom to NSA
- Government Vulnerability
  - “Hire the hackers!”
- War Ethics
  - War isn’t very “controllable”
- Net Neutrality
  - Monopolizing internet seen as unfavorable
Future Problems

- NSA’s trespassing increase?
- Relations between US government and Hackers
- Ethical conduct of wars
- Current presidential debates on net neutrality
Sources

- http://www.stanforddaily.com/2015/02/16/is-drone-warfare-ethical/
- https://www.ted.com/talks/misha_glenny_hire_the_hackers?language=en