Class/Article Notes:

Cyberwar (Amy Zegart):

* Cyber-attack from the poorest country on earth started a national security discussion/incident
* Cold war: knew adversary location, motives, capabilities
* Today’s threat?
* 2009 Cyber Threats were not recognized
* 2015 – cyber threats are at the top of the threats list
* Possibilities:
  + Degrade military
* Cyber is Different:
  + Most powerful = most vulnerable
  + The government cannot go it alone
    - 85% of critical infrastructure is owned/operated by private entities
  + The Attack surface is huge (no safe neighborhoods): good guys/bad guys always connected
  + Victims don’t know they are victims
    - Worm – infected gov PCs for 14 months prior to detection
  + Short warning period before attack; long time required for response (attribution)
* More than 40% of the world is on the Internet
* Growing IoT world (always vulnerable)
* 1 defect for 2500 lines of code
* Android phone: 5000 vulnerabilities
* Windows: 25 mil lines of code
* Cyber Threats of today: annoying
* Cyber Threats of tomorrow: cars, planes, power, water, weapons, (everything that

Question: Are we the most connected government/country? What about those that are more digitized (Krimea?)

Governments Don’t Understand Cyber Warfare. We Need Hackers (Rodrigo Bijou):

* We have an opportunity to make millions of people safer all over the world. Will we take the opportunity?
* Governments are too slow, we need to give up power and control to others (this sounds like The Avengers hacker style)

Definition of Cyber and Cyberspace: