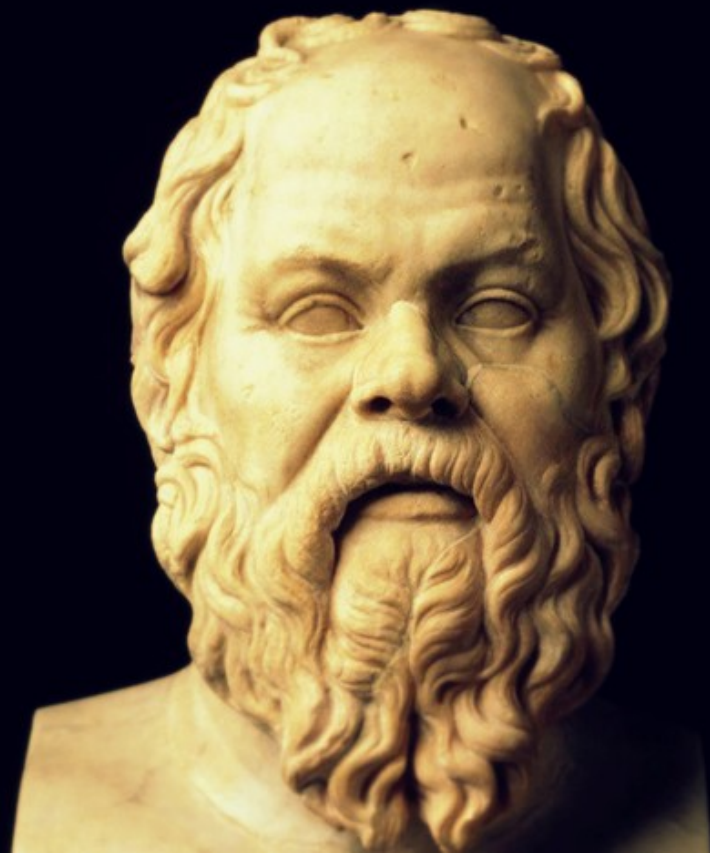


# Modern Technologies and Conflicts

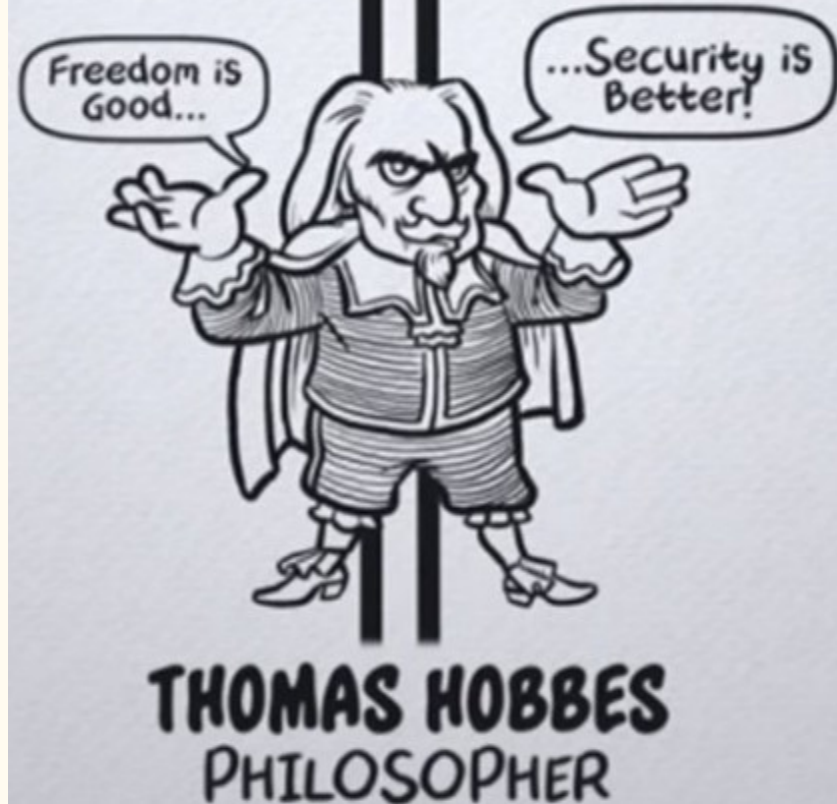
Information Technology,  
Society and Security

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# Freedom versus security

- or privacy versus security
- ongoing massive debate over this question in cyberspace
- no good solution in sight



# Cybercrime

- anything from phishing, to ransomware, RATs and black market
- evolves with technology itself
- key role of anonymity
- lack of user awareness and good security practices
- less anonymity online would make it harder for perpetrators to get away with it



*Somewhere in Nigeria*

# Piracy

- unauthorized distribution of intellectual property
- printing press > magnetic tapes > floppy discs > CDs/DVDs > internet > ???
- securitization (ethics, economy and hard security)
- lacking/slow adaptation of businesses
- stronger IP protection laws might serve as a deterrence

YOU WOULDN'T  
DOWNLOAD A CAR



The Pirate Bay

# Hacktivism

- political and ideological activism in cyberspace, using direct hacking, DDoS, disclosing secrets, propaganda, doxing, defacements, etc.
- beginnings in 2008
- grows strong from 2010
- currently a well established *modus operandi*
- stricter laws and sentencing could discourage perpetrators





# Organizing protests

- using social media to organize and coordinate protests, looting, riots, rallies etc.
- first seen in Iran 2009
- visible issue since 2011
- London riots, Arab spring, India, USA
- shutting off the service during the events would stop people from using it to self-organize



# Terrorism online

- promotion of violence, extremism, intolerance, dissemination of guides, recruitment, inciting hatred and fear
- gradual development from 90s
- became major force in 2010s
- dominant issue with ISIS
- demands for stricter censorship by content curators





# Privacy and corporations

- accumulation of personalized data for advertising and other purposes, interconnected platforms, ecosystems
- mainstream boom circa 2007-2012
- social networks of all sorts (facebook, twitter, ...)
- access to their service in exchange for private data
- is it a problem?
- or just a matter of personal choice and responsibility?

**facebook**



**HELPING YOU  
SPY ON PEOPLE  
ONE CLICK  
AT A TIME.**



**CNN  
FAKE  
NEWS**

# Surveillance

- metadata collection, intrusion into company systems, weakening of protections, dragnet collection
- roots in WW2 and Cold War, all in the name of security, many conspiracy theories
- Snowden and NSA PRISM reveal, 2013
- intensive and extensive data collection might serve to prevent security threats such as terrorism, etc.



# Encryption

- runs through all the issues above, typical double-edged technology (TOR, crypto\$)
- long history, today absolutely indispensable and ever-present
- ongoing fight for weak/strong encryption: states vs. corporations vs. people
- “catching terrorists, endangering users”
- case: San Bernardino iPhone
- “solved” by forcing backdoors and masterkeys

To EDGAR A. POE, Esq.

Dr. Sir, I have the honor to acknowledge the receipt of your letter of the 15th inst. in relation to the subject of the above, and in reply to inform you that the same has been forwarded to the proper authorities for their consideration. I am, Sir, very respectfully,  
Your obedient servant,  
Wm. L. G. [Signature]

# VR/AR

- very probable and very close proliferation of virtual/augmented reality technology in society
- entertainment, communication, traveling, education, training, therapy... anything else?
- health risk (nausea, injuries, eyesight?, psychology?)
- societal and security risks?

