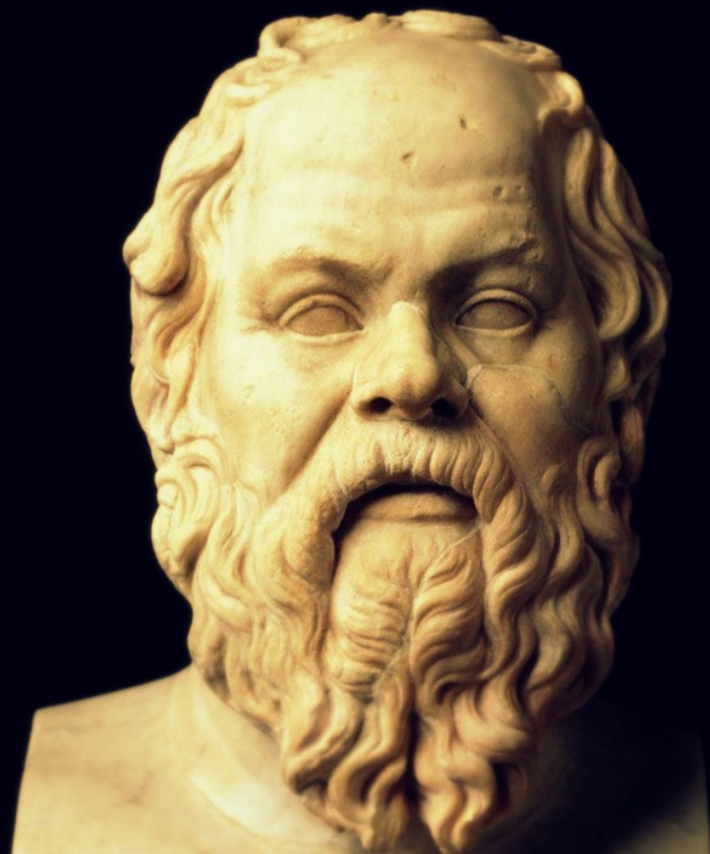


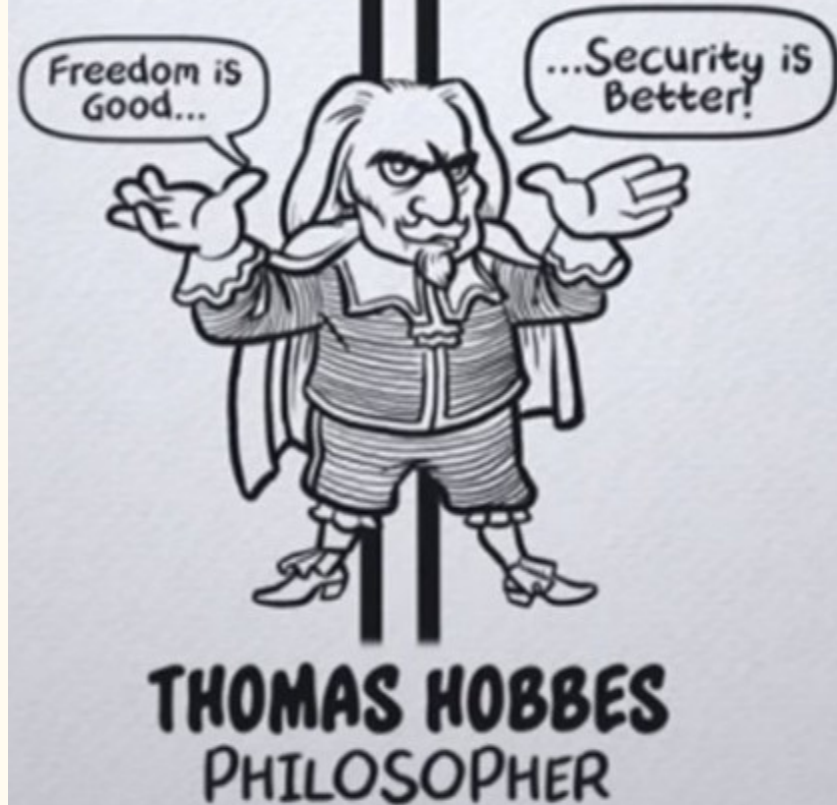
# Modern Technologies and Conflicts

## Information Technology and Society



# 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. in OGXEW PjFy nGUH IA VQMSQ  
xTbj SNE nLyaE CP JCYENLyaE HZ  
Tt esMyntB iRFIXq O Wv lgaDn Rv jKtT  
CQDZtH pVt CP JCYENLyaE HZ  
QZtZAV nVtS Vb PUPwY EaXbTQ  
Mjz qzr into tno FR tTmncZ joxkV and  
VvXb uLl AaU Ozaa Ukn LmV BnXoVw  
tLlFgntg VDjvi Ozaa Ukn LmV BnXoVw  
XDIk vTThyaE tmln qTzab GSWMCElZs  
PcGvtd tno tF tODn LkAqO KtE Pj sw  
yaxndp o Vw xip tza nln nQlNn  
vav jvz ctP bP WytW gSsxkx kM jf Zjv  
UoCtnc nk VFHd IDab XMKX Tlax Ye aj gFW  
gBQOIG ota lamy YioG v Bz kEWUkMqC  
NbnEmMnk Lcna Slatv Nzo gbjz jsoy  
RZnK Cst nL XW jmmUxQ dNBv  
vLpMgRv IA T kPoTx Wv qPaz L Nqz  
tph VDj jvUtm cW jnN and P lgnBv  
Mv jKUn cW vaxuqO T lmv E aFctXsYk  
nWvsk lEOnx zni mD nRv ojn qGv  
XTC gokay vzi PtblBDI oofj ky ci cF  
jyF stu cPzrB v Vlav K vpaq eFzjW jpb  
Kt emy ia gna

# 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?

