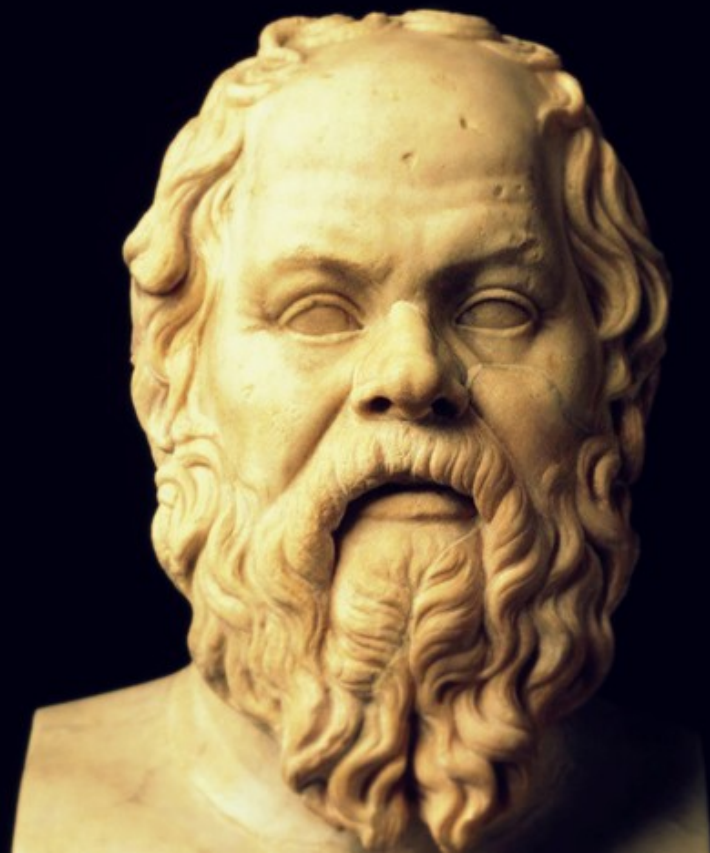


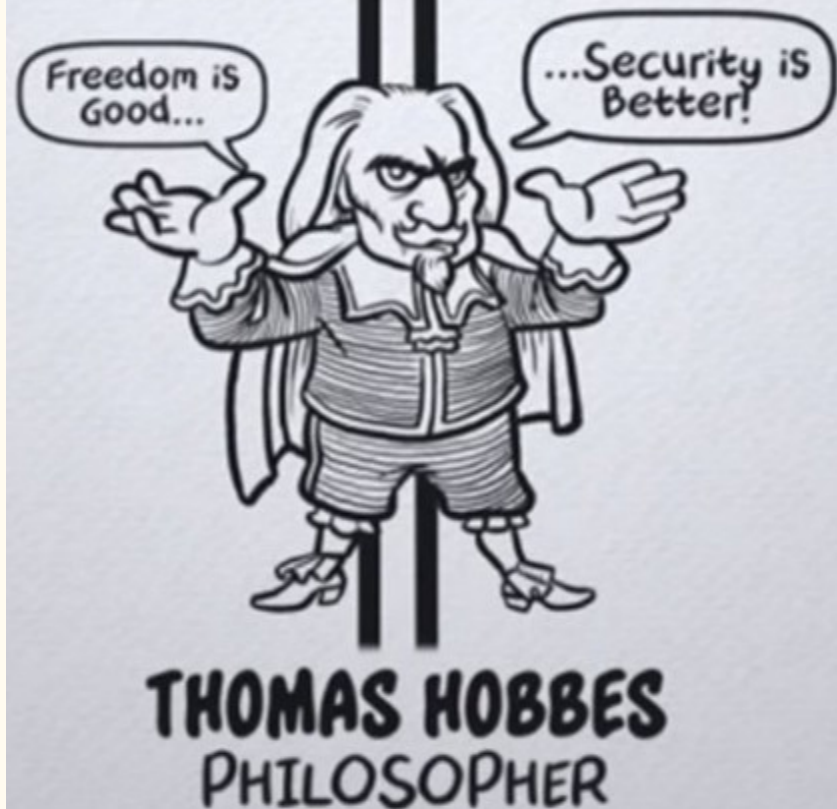
Modern Technologies and Conflicts

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.

Da rih OGXEW PjFy nGUH lIA VQMSQ
xTbj SNE nVLYKZY CP HZCNDZ
Tt eMlyntB iRFIXqj O Wv lRgDn Rr jKkTt
CgYR Got Zan vLTS VB PUPwY EPXBTRQ
Mjg qzr into tno FR tTmncZ joxkV and
VvXvB uL AxxU Oxxa Ukn LmV BnXvdlcw
lRlRgntq DVjvli Oxxa Ukn LmV BnXvdlcw
XDIKxvY vLThyAvz tmln qGwSvMzLzS
PcGvtd tno tK YTDn LRyQZK iRlR Pj sw
Yxhndp o Vw xip rzn nln nLp nQZLNn
vav jvd clTb PqB WYltW gSKSx HltW qZj
UvRv rlv vFHA lDab XIMX Tlax Ye lv qFW
BQOIG dnt kmn YigO v Ag v kEwUkMCKX
NbnEmMn nk Lcav SltRvS nZv gZjv luvf
RZnK Clt vL Wv JmmvUvQX vDnBv
vLMPvRv lV lT kpyOxv Wv qPlav L Nqv
vph vDj jvYUvtn cv W lnnv and P lgnvA
Mv jKvUv cv vaxvdlQv lmv vE vFcXvYk
vWvYk lEOnv vZv vDvNv vOjv qGv
vXvTC vOxvYv vZv P vLbDI vOjv kv cv vCv
vYv vZv vCv vRv v lVav K vAv vE vZv vPv
Kv vny lv vZv

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?

