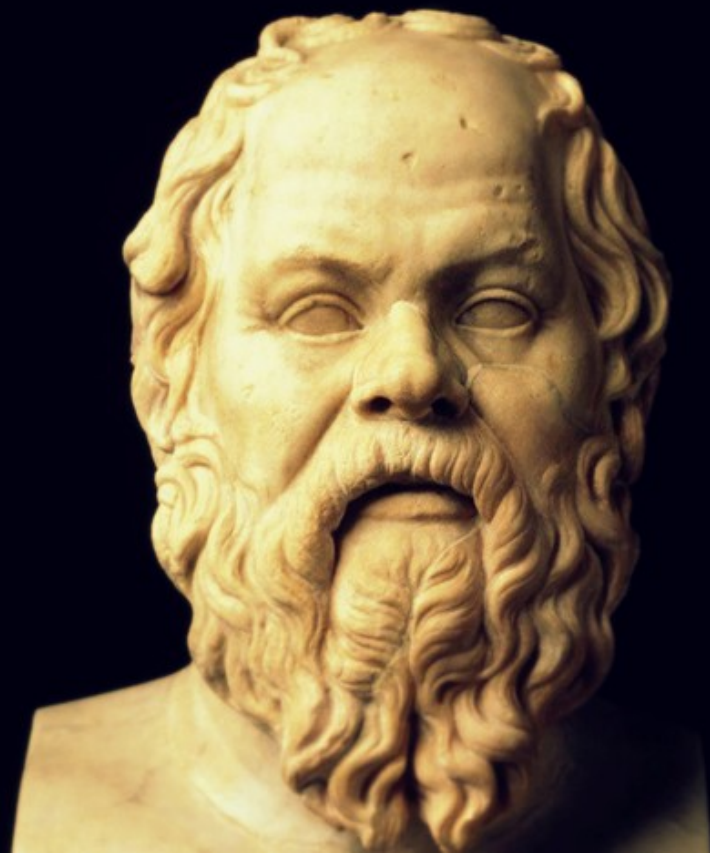


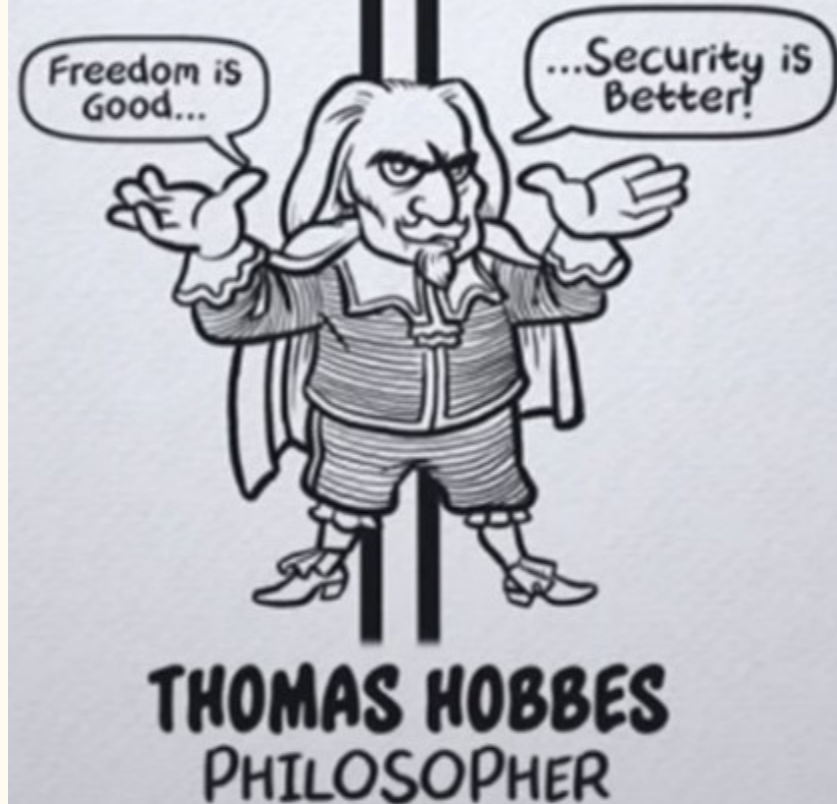
Modern Technologies and Conflicts

Information Technology,
Society and Security



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 rj OGXEW PjFy nGUH IA VQMSQ
xTbj SNB nVLYKZY CP HZCNDZ
Tt eMlyntz iRFXh O Wv lRgDn Rr jKkTt
CgYR Got Zan vLTS VB PUPwY EPXBTRQ
Mjz qzr into tno fr tTmncZ joxkV and
VvXvB uL AxxU iRFXh O Wv lRgDn Rr jKkTt
iRFXh O Wv lRgDn Rr jKkTt
XDIK vLThy vZmJn qGwY PWSM iZS
PGBTR tno tK YTDn LRyQZ K iR Pj sw
yXhndp o Vw xip rzn nln nQZLNn
vav jvd clTb P bW yltW gSKSx HltW qZj
Uv hFv rjv Yv xVTKMx qdI VHFV nq amctio
BQOIG dnt kym Y iOg v Bv kEwTKMCKX
NBN iEmM nK Lcnc S iRv iS Nzr qzjz jcuof
RZK Clt rL Wv jmmvUQX dNBv
vLMPGKv IA T kpyoTz Wv qPlat L Nzd
rph vDj jvUv m vW jnn and P iRgDn
Mv jKv m vW vaxuqI T jnv Bv afcXSk
vW vK iOvntz nri mZ Dvwnv ojm qGv
XTC gokv vzi P iRvDI oofj kv ci cFv
jvT vuz cPvri v Vlav K vPvq cPvz vPv
Kv mY iV 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?

