



Cryptoparty Chicago

Mason Donahue, South Side
Hackerspace: Chicago

Harold Washington Library
October 10, 2015

Privacy

- “Privacy is the power to selectively reveal oneself to the world.” (Eric Hughes)

Anonymity

- Without anonymity, privacy online is impossible.
- We create digital trails of data as we move through the physical and virtual world, which reveals us without our consent

Anonymity

- Target sent a teenager coupons for diapers
 - Their data collection suggested she was pregnant
 - Her father saw the coupons and confronted her
- Advertisers track search terms, showing you relevant ads, creating persistent online identity tied to your real identity

Threat Modeling

- “What information do I want to keep secret?
From whom? What do I have to lose?”

Threat Modeling

- “What information do I want to keep secret? From whom? What do I have to lose?”
- Company that just designed a new product
 - Details about their new product
 - Their competitors
 - Tons of money

Threat Modeling

- “What information do I want to keep secret? From whom? What do I have to lose?”
- LGBT youth with conservative parents
 - Their sexual identity, their relationships
 - Their parents
 - Their ability to live in a safe home

Threat Modeling

- “What information do I want to keep secret? From whom? What do I have to lose?”
- Victim of Domestic Violence:
 - Location, relationships, day-to-day life
 - Their abuser and anyone who would share that information with them
 - Their life

Adversaries

- Who is your adversary? What are they capable of?
- Are they bound by law?
- How technically savvy are they?
- What resources do they have to bear on obtaining your secrets?

Adversaries: Company

- Industrial Espionage
 - Bribing your employees
 - Digging through your trash
 - Physically breaking into your offices
 - Hacking your network
 - Impersonating you to your suppliers to get a sample shipped to them

Adversaries: Parents

- “Snooping”
 - Reading your texts/Facebook messages/email
 - Location tracking (“Find my iPhone”)
 - Browser history reading
 - Logging every keystroke on your computer
 - Pretending to be you online to your friends
 - Googling you

Adversaries: Abusers

- Stalking
 - Reading your texts/Facebook messages/email
 - Location tracking (“Find my iPhone”)
 - Browser history reading
 - Logging every keystroke on your computer
 - Pretending to be you online to your friends
 - Googling you
 - Socially engineering your banks/utilities/employer

Adversaries: Governments

- Widescale surveillance of protests (Black Lives Matter/We Charge Genocide, NATO, Occupy)
 - Cell tower simulators (Stingrays)
 - Undercover officers/criminal informants
 - Security cameras/image recognition software

“Nothing to Hide”

- It is impossible to know, beforehand, what information is dangerous to share
- LiveJournal

“Nothing to Hide”

- It is impossible to know, beforehand, what information is dangerous to share
- LiveJournal
 - American company/blogging platform
 - Russian youth uses the site, reveals their sexual orientation there
 - Russian company buys LJ
 - Russian culture shifts to repressive homophobia

The Big Point

- Cryptography and anonymity tools help keep some of your communications private
- Some of the tools are surprisingly easy to use
- We'll show you ways to anonymously browse the Web, text and phone your friends and family, and exchange instant messages