

WELCOME !





CyberSecurity w/ Cypurr

7/27/20

Exp. 12/20

Who are we?

- We are...
 - The Cypurr Collective: A group of folks that organize cybersecurity events, looking to spread knowledge and talk about privacy rights!
 - Established April 2016
 - 3-4 cryptoparty, discussion, and social events every month in NYC!
 - Just some folks interested in making safer spaces for others to talk bout their privacy needs

(meow)

• A few rules for this workshop ...

- **Share the space**- Step Up Step Back: Ask a question, give a comment, leave room for others to speak
- **Stack!**- Raise your hand and we will put you on the speaking queue
- **Saf(er) Space**
 - We DO NOT tolerate language or behavior purposefully meant to demean or harm folks based on their identities
 - No one should be forced to discuss their own experience/threat model/situation
- **Photo/Video**- No photo/video without asking!
- **Bonus Rule:** Try not to invalidate experiences!

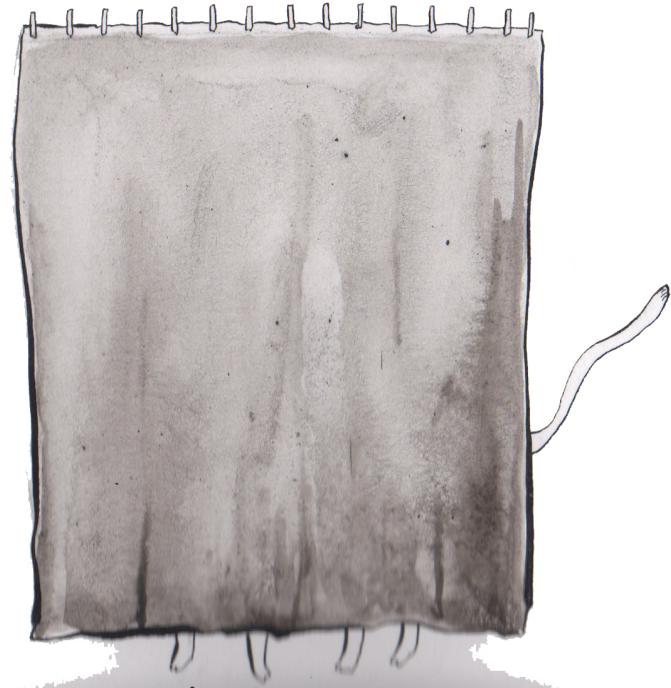
(meow)

Overview

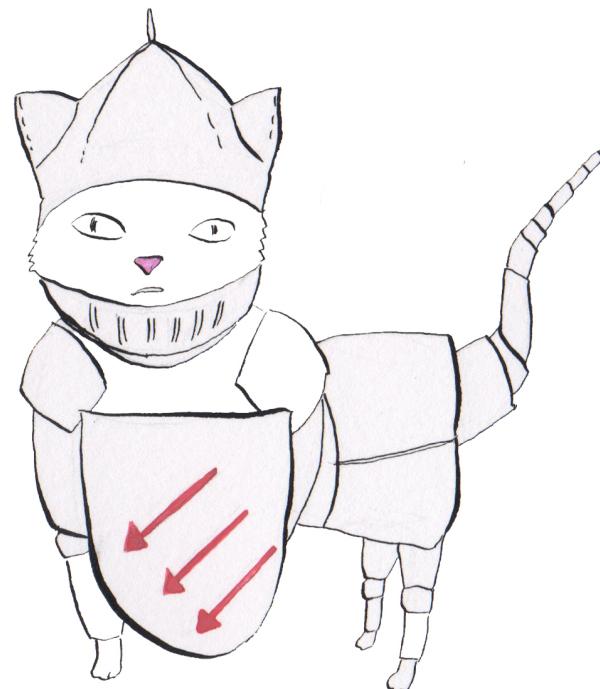
- Intro
- Strategies
- Tips
- Resources
- Q + A!



Privacy



Security

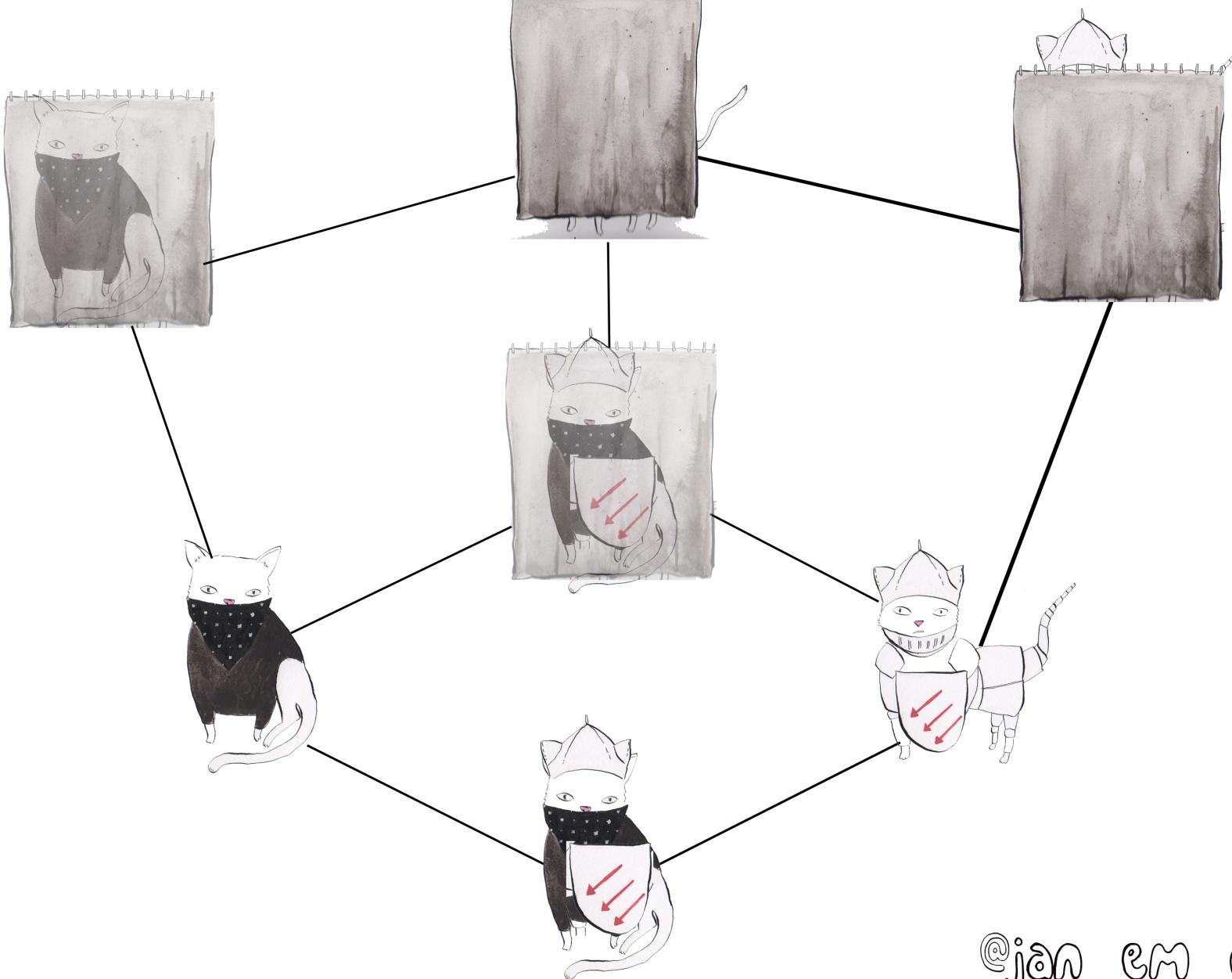


Anonymity



@jan_em_dee

PSA Cat Tree



@jan_em_dee

So What's The Problem?

Threat Modeling-

“A way of thinking about the sorts of protection you want for your data so you can decide which potential threats you are going to take seriously. It's impossible to protect against every kind of trick or adversary, so you should concentrate on which people might want your data, what they might want from it, and how they might get it. Coming up with a set of possible threats you plan to protect against is called threat modeling or assessing your risks.”

EFF Surveillance Self-Defense

Levels of Prevention

Primary

Reduction of risk factors **before** occurrence of disease, condition, or injury

Secondary

Early detection of the **potential for** development of a disease or condition, or the existence of a disease while asymptomatic

Tertiary

Treatment of an **existing symptomatic** disease process to ameliorate its effects, or delay or prevent its progress

So What's the Problem?

(meow)

“What are you
”protecting?” protecting it
“What resources do they have to take it from
you?”

“What are you willing to do to protect
it?”

“What vulnerabilities do you need to fill to better protect it?”

Common Themes

Harm Reduction- acknowledging that harm could happen, and taking steps to reduce impact of that harm

Tech Resiliency- creating a system of habits that reduce the impact of harm

Holistic Security

Holistic Security

△ Physical Security

Threats to our physical integrity. Threats to our homes, buildings, vehicles.

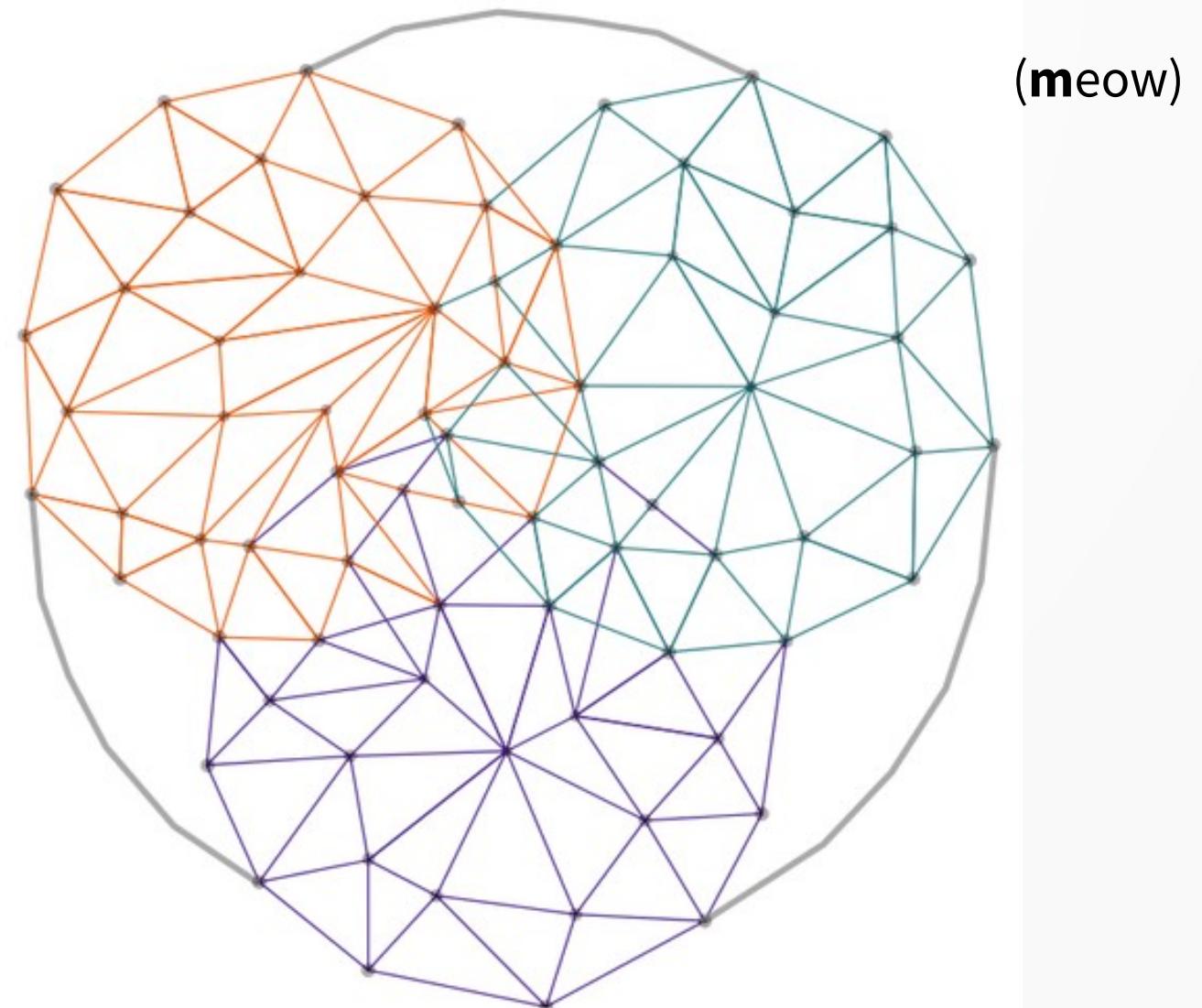
△ Psycho-social Security

Threats to our psychological wellbeing.

△ Digital Security

Threats to our information, communication and equipment.

- Holistic security analysis, strategies and tactics.



Threat Is Valid

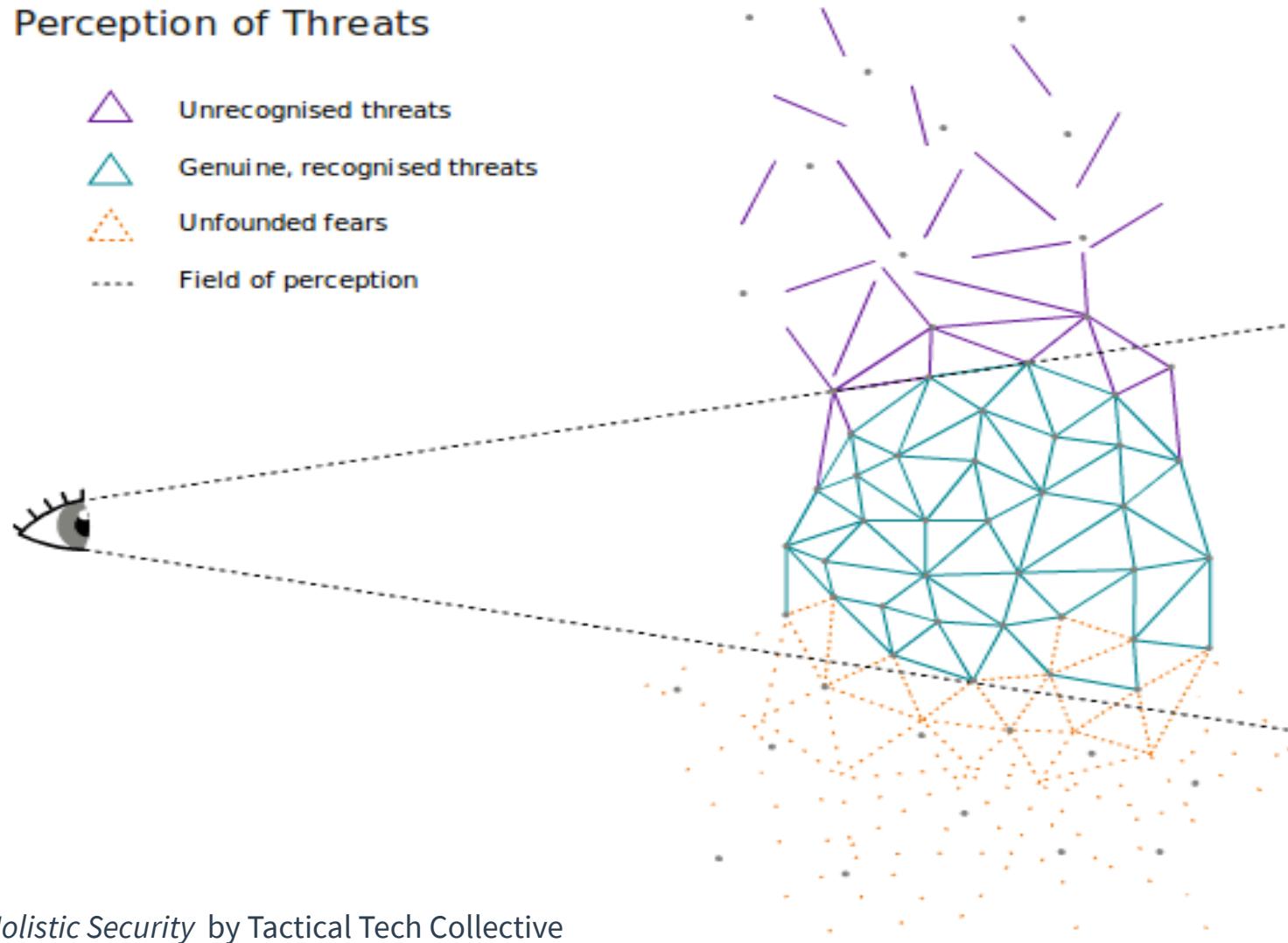


Image from *Holistic Security* by Tactical Tech Collective

Step 1: Context/Situational Awareness

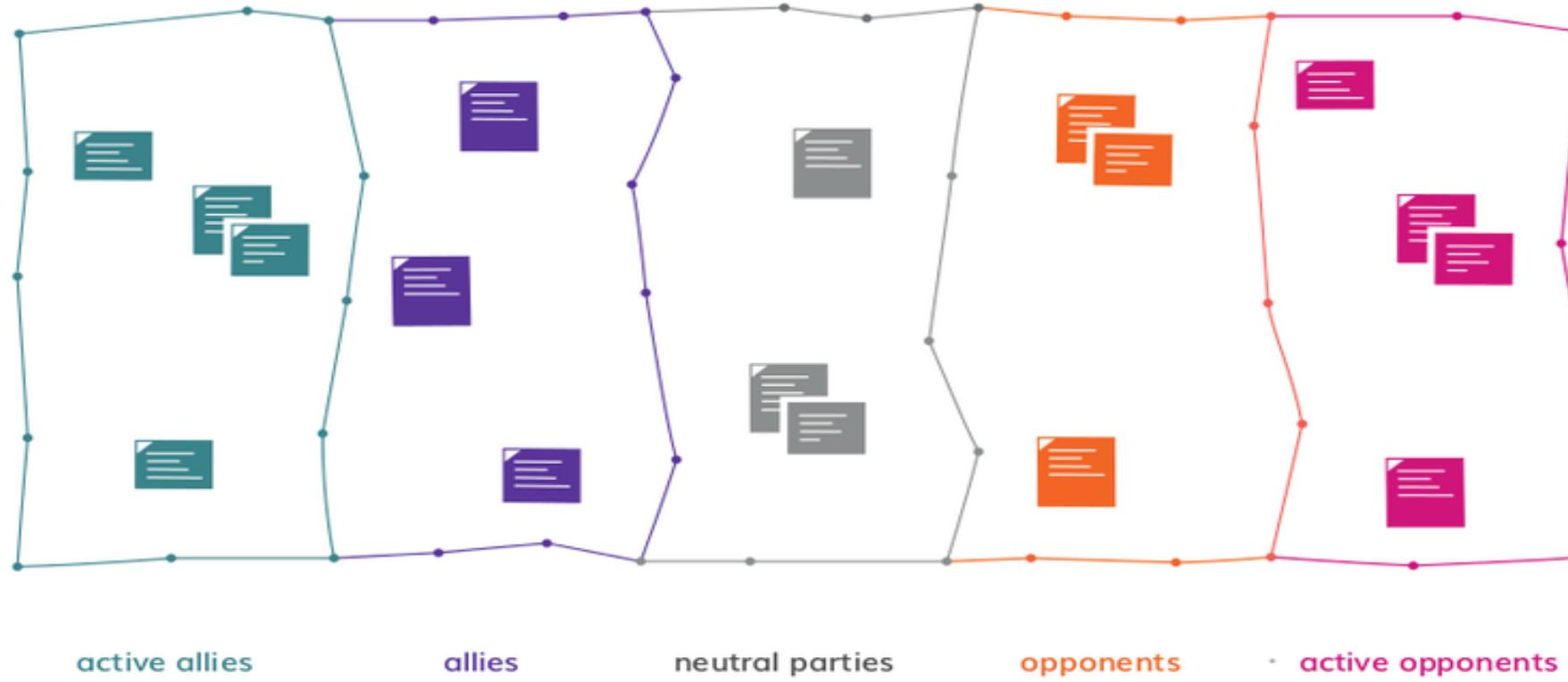
PESTLE

- Political
- Economic
- Scientific
- Technological
- Legal
- Environmental



Step 2: Actor & Information Mapping

Spectrum of Allies



Information at rest

What (examples)	Attributes			
	Where does it reside?	Who can/does access it?	How sensitive is it?	How should it be protected?
Financial documents in electronic form	Secure shared folder–file server	Executive team	Secret	Saved in hidden encrypted partition. Backed up daily to encrypted hard-drive
Program reports for the censorship campaign	Documents folder–file server	Team members, program director	Confidential	Saved in encrypted partition
Adobe InDesign for the web developer	Web content manager's laptop	Web content manager	Confidential	Licensed, password-protected

Image from *Holistic Security* by Tactical Tech Collective



Step 3: Security Indicators

- Security indicator vs. Threat
 - Indicator is the instance
 - Threat is the feeling that an instance will bring harm, or that a series of instances will bring harm
- Something out-of-the-ordinary?
 - Negative: I'm being followed by a van
 - Positive: a strong ally just gave us some funds!!!!!!!
- Making space to share
- Keeping track



Step 3: Security Indicators

1. **What happened?**
2. **When did it happen?**
3. **Where did it happen?**
4. **Who was affected?**
5. **Was gender-based violence involved?** This is especially important in the case of concrete incidents involving third parties. Consider physical and psychological factors.
6. **In the case of aggressions – who was responsible?**
7. **Why do we feel this happened?** Try to avoid being accusatory here but rather establish the facts of the incident.
8. **What was its origin?** Was this related to common delinquency, environmental factors or our work and activism?



Threat	(Title of the threat)			
Summary	(Brief description/summary of the threat)			
What	Target	Adversary	How	Where
Describe what happens if the threat is carried out (if required, subdivide the threat into its components below).	Specify what/who is the target.	Who is the entity behind this threat?	What information is necessary to carry out the threat?	What are physical spaces in which the threat can manifest?
1)				
2)				
3)				
Psychological, emotional and health impacts				

Image from *Holistic Security* by Tactical Tech Collective



Step 4: Threat Analysis



Image from *Holistic Security* by Tactical Tech Collective

Step 5: Security Planning

- What to include in security plan
 - Objective of activity
 - Threat identified
 - Preventative actions/resources
 - Response to emergency situation (how you define emergency)
 - Communication and devices
 - Self-care and well-being



Step 5: Security Planning

- What's working already? (Existing Capacities)
- What needs work? Gaps? (Vulnerabilities)
- Strategies
 - Acceptance-raising support
 - Deterrence-raising cost of attack
 - Protection-building strength to make attack harder





(meow)

Pros/Cons + Harm Reduction

“Not a reason to lament, but an opportunity to understand”
-Me, I said that

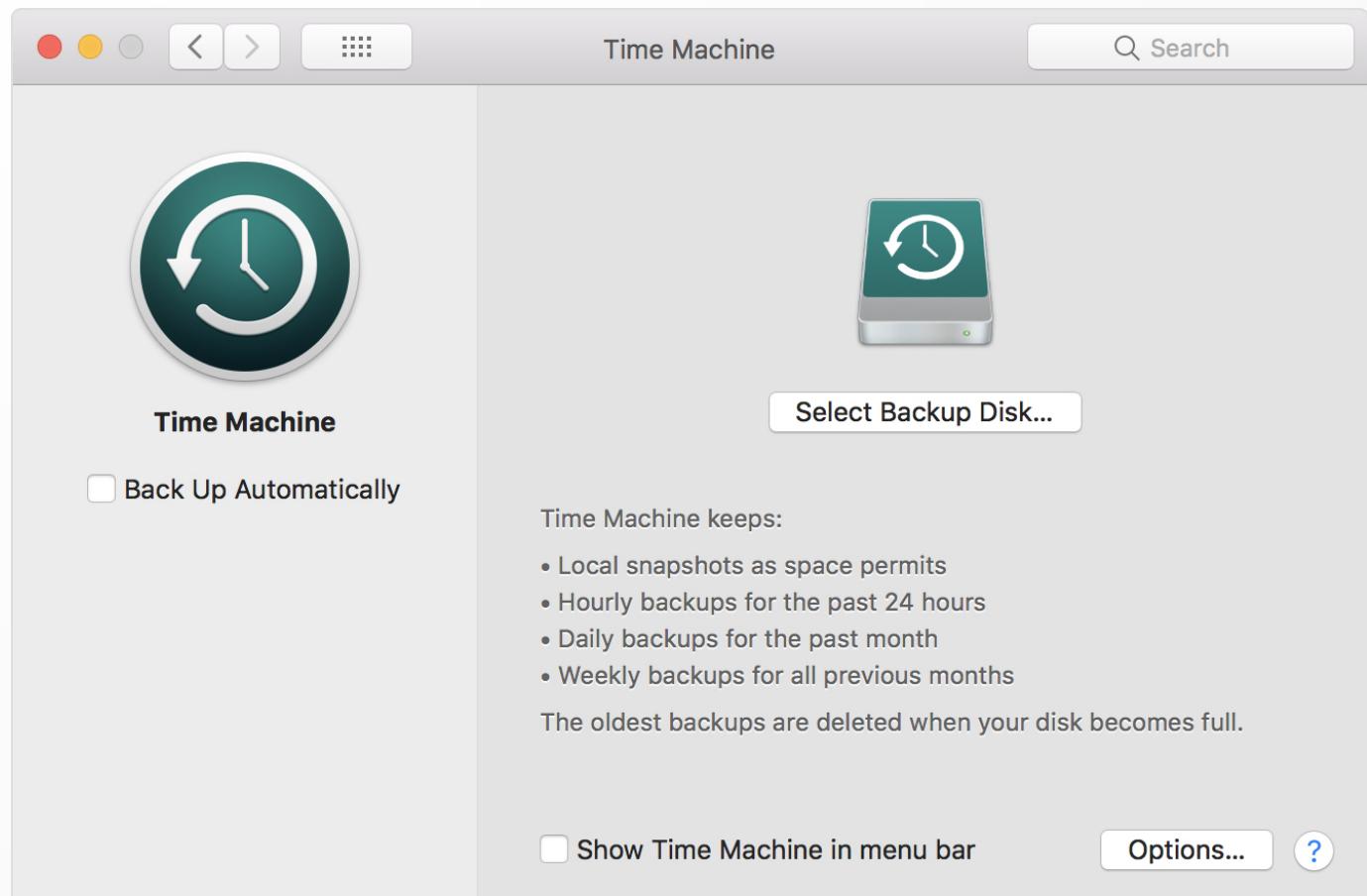


Tips/Tricks



Back Ups!

- **Computers**
 - Backup Apps
 - Back Up Regularly!
 - Helps reduce the impact of information loss
- **Social Media Accounts**
 - Backup Social Media accounts!
 - Download your info (some sites)



App Settings/Factory Reset

- **Limit use!**
 - Location Services?
 - Camera/Mic?
- **See what they have to offer**
 - Privacy Policy
 - Opt In/Opt Out?
 - Open Source?
- **Factory Reset**
 - The final, but strongest, option
 - Resets phone
- <https://www.privacytools.io/>



SIGNAL

- **End-to-End Encrypted Texting App**
 - Generates a private key between you and recipient
- **Only collects**
 - when you installed app and the day you accessed service
- **Texting is Open Source**
- **Available for iOS/Android**
 - Can access on desktop
- **Things to look out for**
 - Not so secure you can write about EVERYTHING
 - Only as secure as your phone/computer password



Password Managers

- **Better Passwords, All in One Place**
- **Pros**
 - You only have to remember one password
 - Programs can make complex Passwords for you
 - Better Passwords, harder it is to get hacked!
- **Things to keep in Mind**
 - can be hard to remember to update passwords
 - Have to be very careful with your master password
- **Recommendations (PrivactTools.io)**
 - KeePass/KeePassX
 - BitWarden
 - Less Pass



2FA

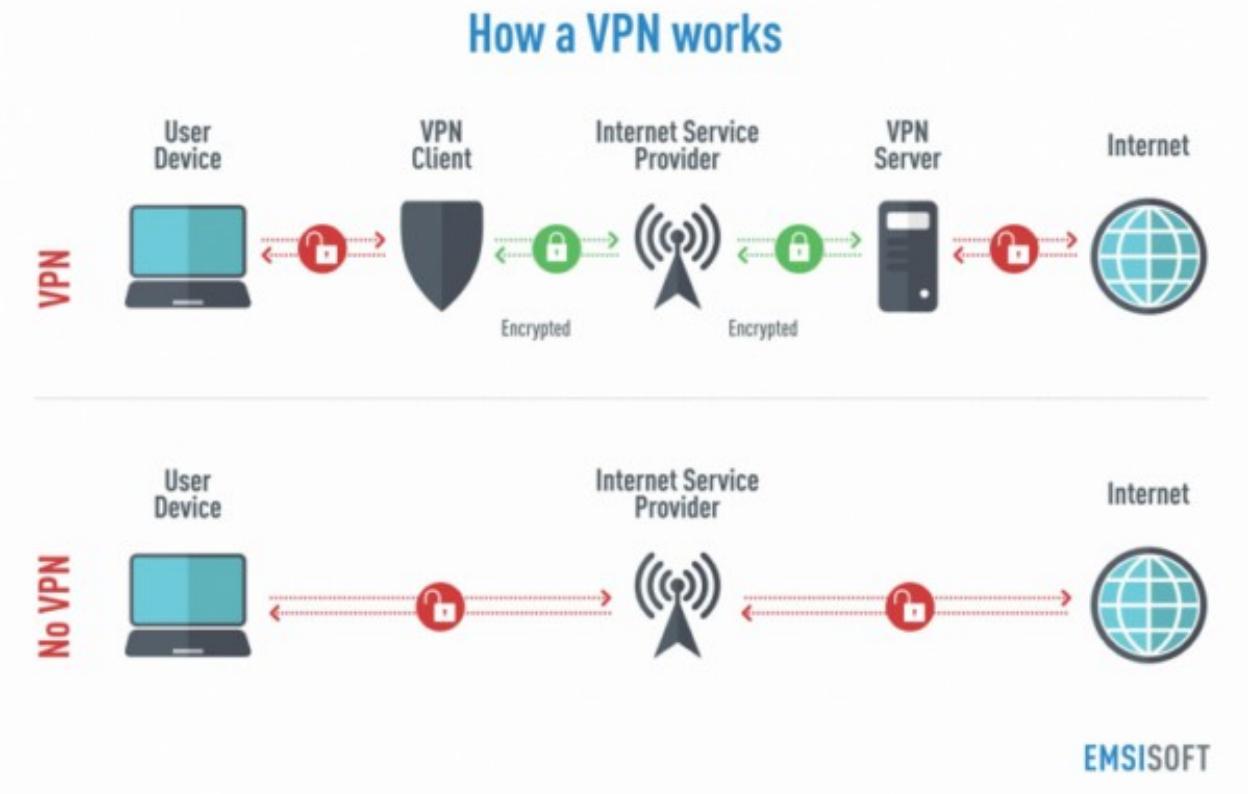
- Two Factor Authentication
- Creates Second-Level of Protection for your accounts!
- Methods of 2FA
 - SMS
 - Phone Call
 - Email
 - Hardware Token (YubiKey)
 - Software Token (Authy, Free OTP)
- 2FA Resource
 - TwoFactorAuth.org



fido
CERTIFIED
U2F

VPN

- Virtual Privacy Network
- Masks your location
- Great way to watch international movies
- <https://thatoneprivacysite.net/>
- Bonus Points
 - Company outside U.S?
 - Does it log your info?
 - DO NOT go for free!



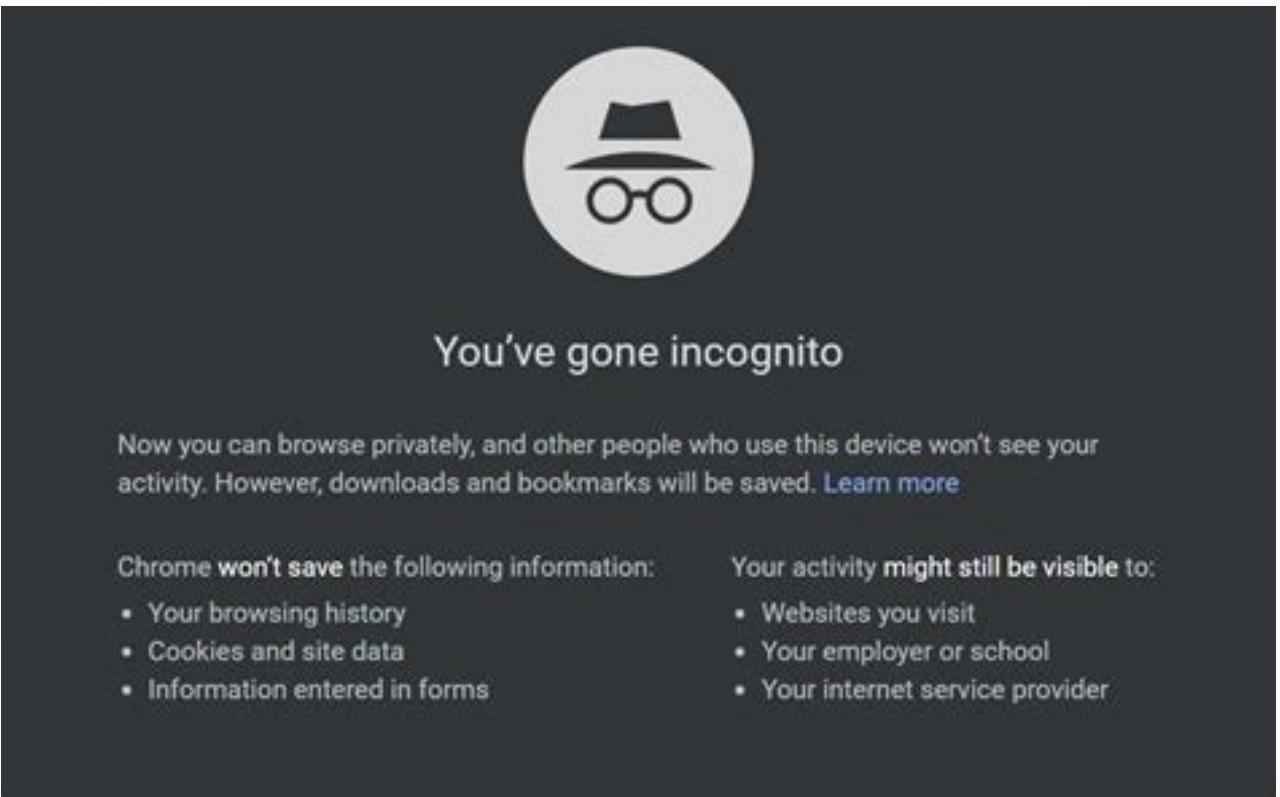
Browser Extensions

- Apps developed to make your browsing experience a bit safer
- Firefox/Chrome
 - Password Managers
 - Containers
 - uBlock
 - **HTTPS Everywhere**
 - Forces website to connect to more Secure (httpS) version of website
 - Man in The Middle (Snooping)
 - Transparent Straw vs. Opaque Straw
 - Does NOT anonymize your browsing experience, just some of the info you upload
 - **Privacy Badger**
 - Stops cross-site Tracking (Green, Yellow, Red System)
 - Is NOT an Ad Blocker



Private Browsing

- Most browsers have this option
- Note
 - Does not make you invisible
 - Affects how info is stored



Social Media/Email

- Check the privacy settings!
- Beware of Phishing!



People Search Sites

- Sites that make money off your info
- Collected across web
 - Age/Addresses
 - Images
 - Other identifying info
- Google yourself!
- Privacyduck.com
 - Opt Out Today!

The screenshot shows the Intelius search interface. The search bar contains "Dennis" in the First Name field and "O'reilly" in the Last Name field. The results page displays 223 matches for Dennis O'reilly in the United States. The expanded search results section lists several variations of the name searched. A table below shows one result for Dennis Michael O'reilly, aged 64, with previous cities Springfield, VA; Greenbelt, MD; New York, NY; and Woodbridge, VA. The table includes columns for Name, Age, Previous Cities, DOB, Phone, Address, Avg. Income, Avg. Home Value, and Relatives. The relatives listed are Susan L O'reilly, John D O'reilly, Brendan Michael O'reilly, Laura Ann Mcdowell, and Kathleen M Madsen.

	Name	Age	Previous Cities	DOB	Phone	Address	Avg. Income	Avg. Home Value	Relatives
1	Dennis Michael O'reilly View Details	64	Springfield, VA Greenbelt, MD New York, NY Woodbridge, VA	✓	✓	✓	✓	✓	Susan L O'reilly John D O'reilly Brendan Michael O'reilly Laura Ann Mcdowell Kathleen M Madsen

Q + A + Convo



Further Resources

- Crash Override- <http://www.crashoverridenetwork.com/>
- Heartmob- <https://iheartmob.org/>
- Data Detox- <https://www.datadetoxkit.org/en/home>
- EFF SSD- <https://ssd.eff.org/>
- Cypurr Collective- cypurr.nyc
- Without My Consent- <https://withoutmyconsent.org/>
- Hackblossom- <https://hackblossom.org/>

