

# Hand Washing & Threat Models

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# About Me

## Margaret Valtierra

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Technical Marketing - Cohesive Networks

## Why these slides exist



# CRYPTO PARTY



# Cold Season

“an ounce of prevention is  
worth a pound of cure”

# Risk Assessment

France

★ Brussels

Lille

O Cologne

G e r m a n y  
@MargaretValtie

Namur

Liege

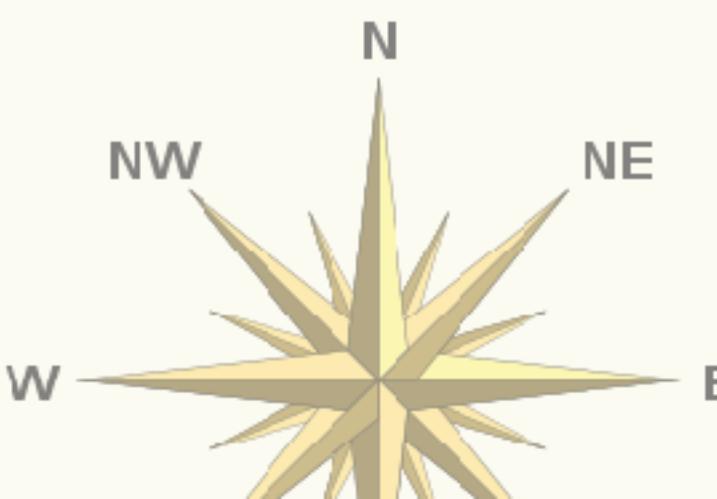
Frankfurt

Luxem -  
bourg

**threat model**

★ Paris

prioritize the type of protection  
*you want for your data.*

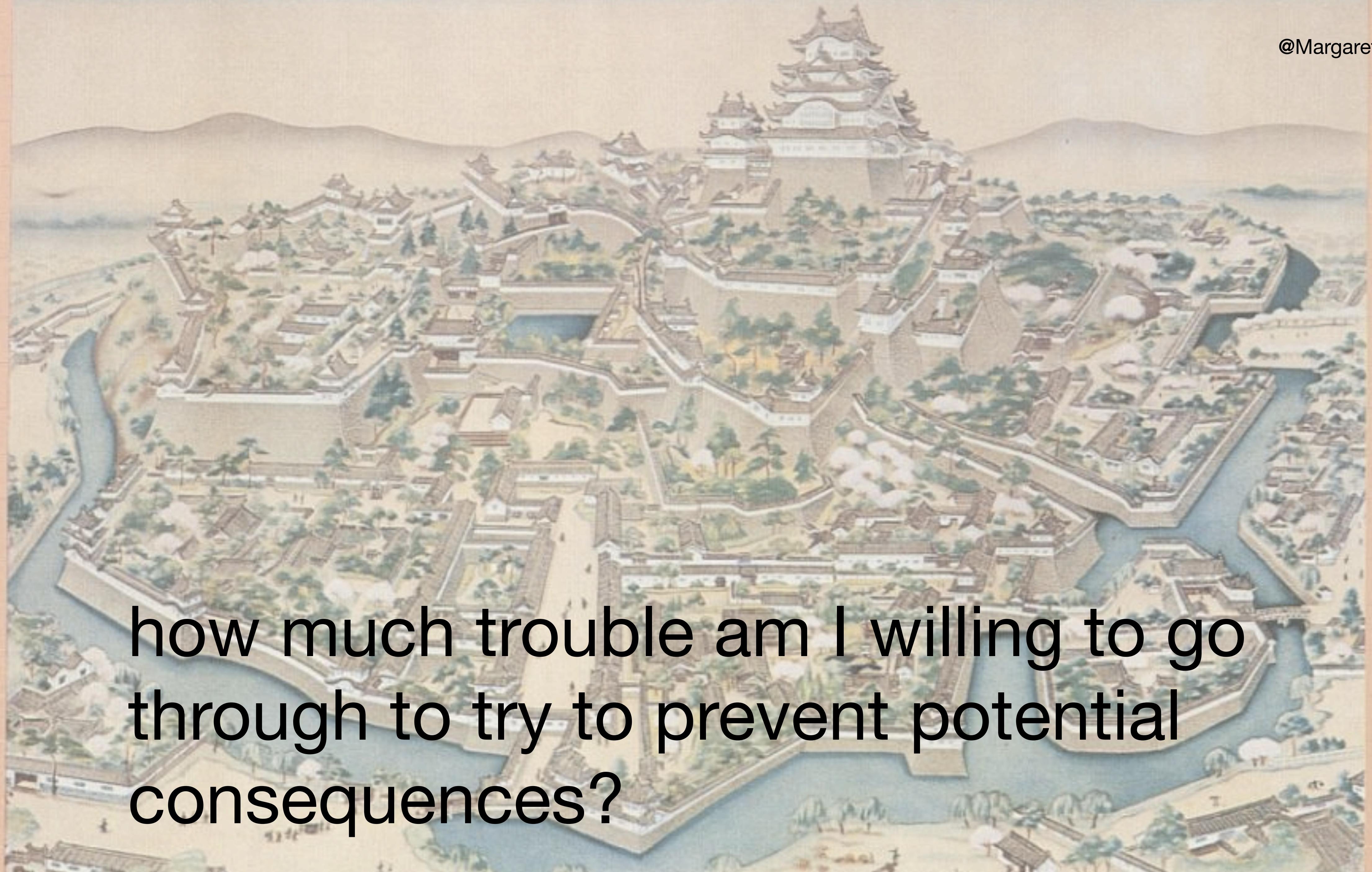


**assets = what I want  
to protect**

**adversaries = who I want  
to protect my assets from**

**threat** = how bad are the consequences

**risk = how likely is it**



how much trouble am I willing to go  
through to try to prevent potential  
consequences?

remember to rinse and repeat

# Know the risks... and realities



The Guardian

WhatsApp

WhatsApp design feature means some encrypted messages could be read by third party

Trade-off between security and usability unlikely to permit systematic surveillance. experts say

CNN tech

BUSINESS CULTURE GADGETS FUTURE STARTUPS

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WikiLeaks claims to reveal how CIA hacks TVs and phones all over the world

by Jose Pagliery @Jose\_Pagliery

March 8, 2017: 8:43 PM ET

# Research it

**Advertisers sell your data**

**Some ads can be used to deliver malware**

**Anonymous != private**



We use cookies to enhance your visit to our site and to bring you advertisements that might interest you. Read our [Privacy](#) and [Cookie Policies](#) to find out more. X

## Your activity data

This data is used to make Google services more useful to you



Search activity  
PAUSED



YouTube Search History  
PAUSED



YouTube Watch History  
PAUSED

# Securing Your Digital Life On Your Own Terms

# Browsing

# Tools & Tips



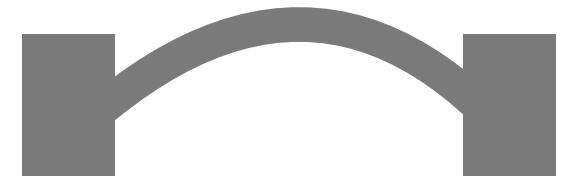
**Privacy Badger (EFF)**  
Block tracking cookies



**HTTPS Everywhere (EFF)**  
Automatically connect to secure website



**Ad Blockers (multiple)**  
block those ads!



**Virtual Private Network or VPN (multiple)**  
Private connection to your devices

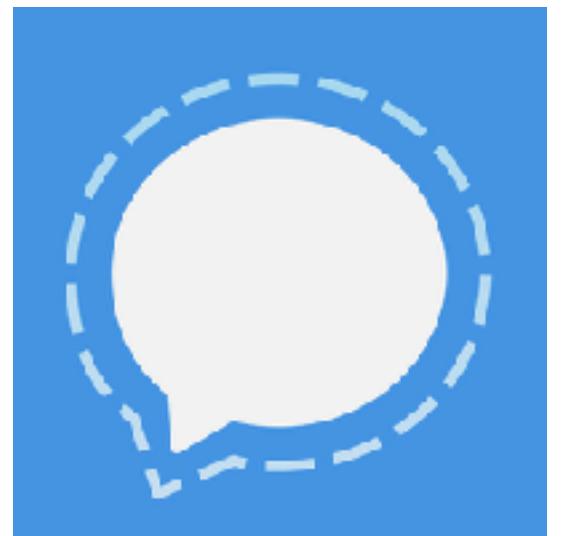
# Encryption

# Tools & Tips



## Hard Drive Encryption

Firevault for Mac, BitLocker for Windows



## Signal (free, open source)

Secure calls and messages



## Tweak Message Security Settings

iMessage, WhatsApp, FB Messenger, MMS, SMS

# Authentication

# Tools & Tips



**Multi-Factor Authentication or MFA**  
2FA, login code, SMS verification



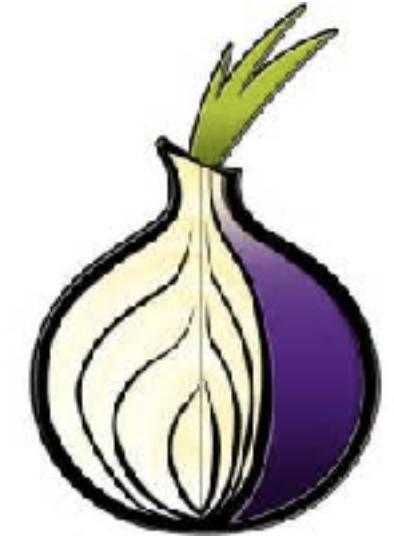
**Password Managers**  
Strong, unique passwords you don't forget  
Device-based roles

OpenPGP

**PGP email**  
“Pretty Good Privacy” key exchange

Next Level Shizz

# For the Paranoid



## Tor browser (Tor Project)

Anonymous browsing network  
Slow and still not private



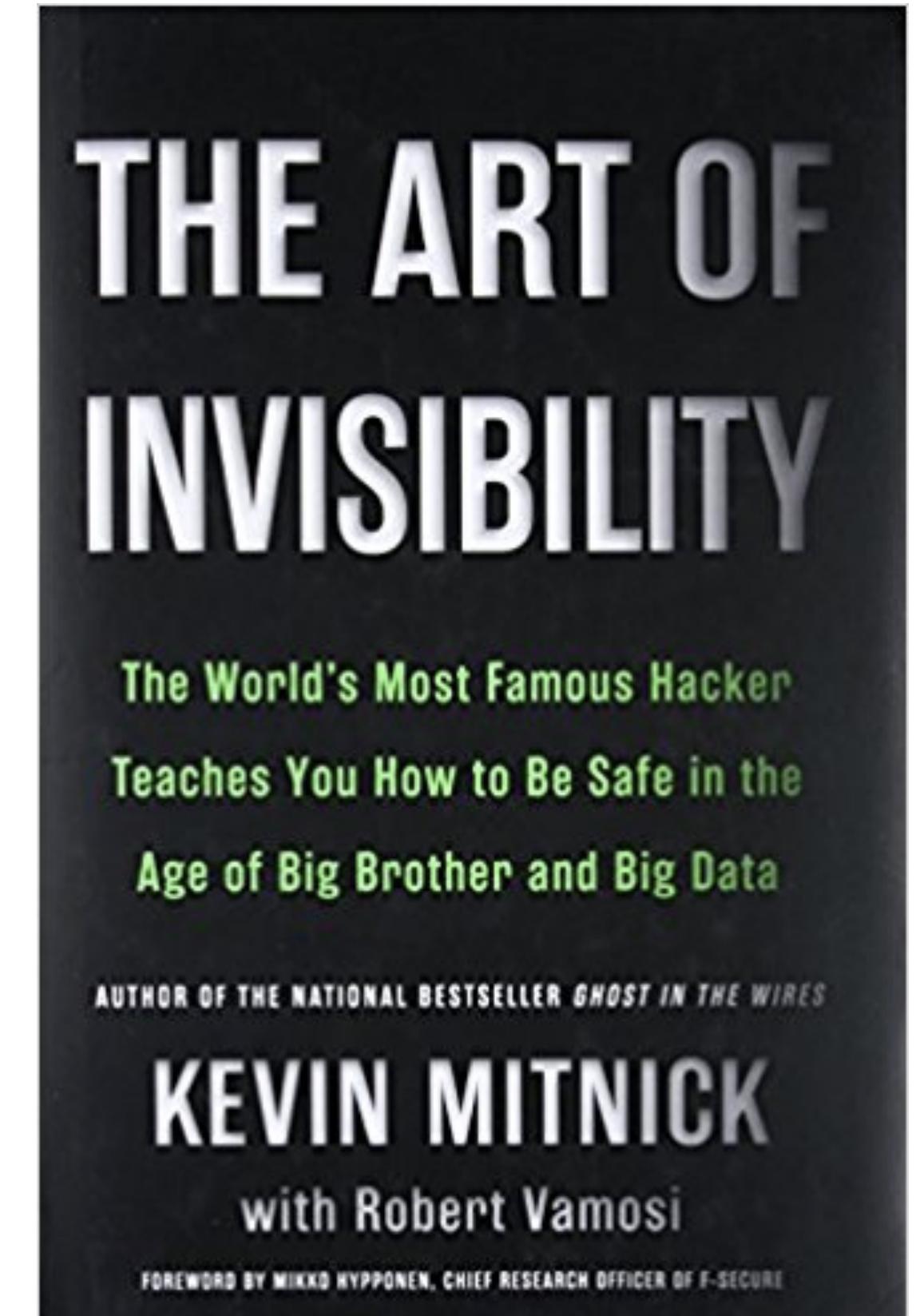
## DIY email server

## DIY VPN



## Public / Community ISP

NYC Mesh in Brooklyn  
Motherboard Guide to Building an ISP



In Summary:

It Depends.

Do your homework.

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# Sources & References



**Assessing Your Risk**  
**Keeping Your Data Safe**



**@mshelton**

**Securing Your Digital Life Like a  
Normal Person**