Who are you?

Why does it matter?



### Who am 1?



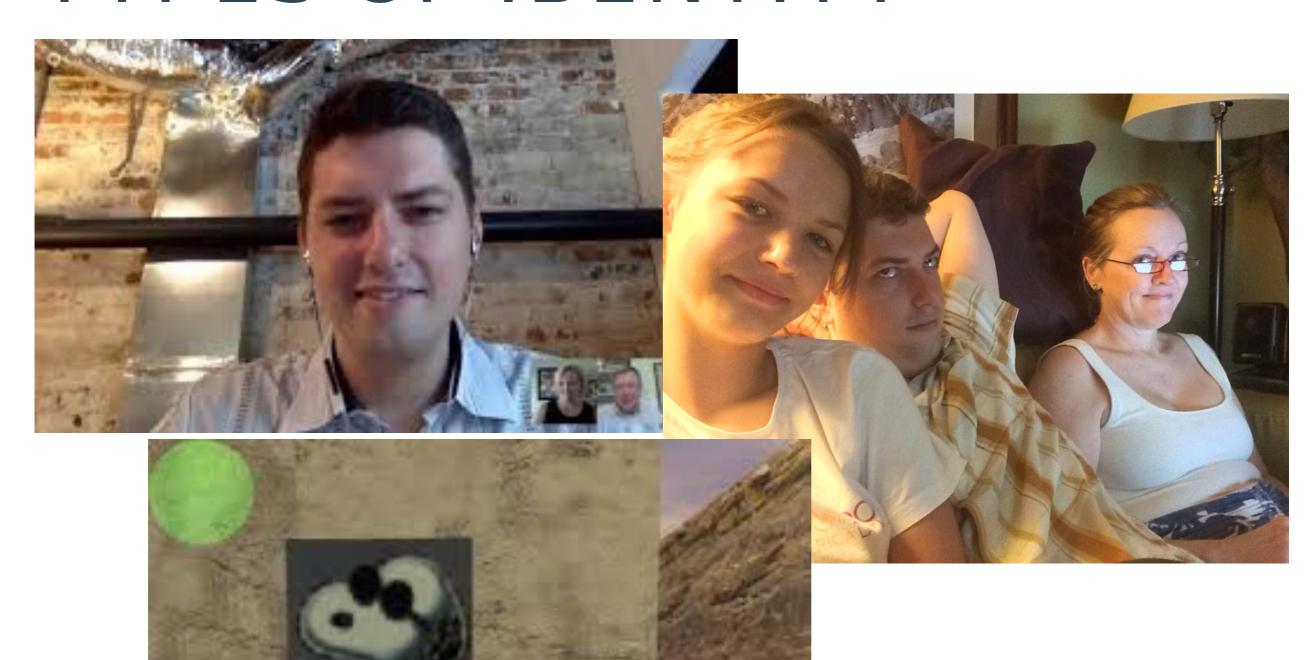




#### Ben Klang

## Who are you?

#### TYPES OF IDENTITY



#### TYPES OF IDENTITY

- Professional
- Personal
- Semi-Anonymous/App-Specific
- •Fully Anonymous/Ephemeral

## One Size Does Not Fit All

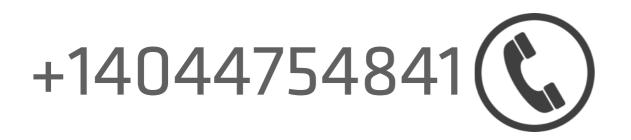
### Identity & Software

#### IDENTITY & SOFTWARE

- Identity in Software must be:
  - Reduced to machine address
  - Unique within population
  - Support application requirements

#### IDENTITY & SOFTWARE EXAMPLES





? sip:asd8f9dfk760@example.com;gruu





#### ELEMENTS OF IDENTITY

- Federated vs. Island
- Strong or Weak Assurance
- Centralized or Decentralized Authority
- App-centric vs. Network-centric
- Privacy Expectation
  - Public: anyone can call
  - Private: pre-approved contacts can call

## The big WebRTC Debate

## To Federate, or not to Federate?

#### FEDERATED IDENTITY

- It Depends
  - Ephemeral relationships No
  - Recurring relationships Maybe
  - Public/Advertised Contact Info Yes

# Learning from Experience



#### FEDERATED ID: E.164 PROS

- Easy to communicate
- Semi-anonymous
- Universally accepted
- Portable/long-lived

#### FEDERATED ID: E.164 PROS

- Too easily spoofed by attackers
- Difficult to use aliases or groups
- Tied to a device or physical location
- Very disruptive to change
- Irrevocably tied to insane billing schemes

#### SUMMARY

- •Federation & WebRTC: Tempest in a Teakettle
- Identity is what you need it to be
- •Make conscious choices your users will thank you



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