# Security/privacy workshop

For activists

# Why does it matter?

#### Where are we at?

- Surveillance capitalism is now the most powerful form of capitalism
  - Google
  - Facebook
  - Microsoft
  - Twitter
  - Amazon
- You are tracked by these companies everywhere you go on the internet
- Steal data —> Model you —> Predict your behaviour —> Sell your attention for whatever purpose pays
- This works better if they change your behaviour and how/what you think too

#### Behaviour modification

- Who chooses the new behaviour? Very rich, climate denying, neoliberal capitalists
- This goes way beyond targeting ads to sell things:
  - Cambridge Analytica + Facebook: Vote Leave (Brexit)
  - Cambridge Analytica + Facebook: 2016 US election
  - Fossil fuel companies
- It specialises in spreading misinformation and polarising people, all for the profit of a few rich people (usually in Silicon Valley)
- Surveillance capitalism is destroying democracy

## See it for yourself

- The Social Dilemma (1.5 hours): <a href="https://www.netflix.com/title/81254224">https://www.netflix.com/title/81254224</a>
- The Great Hack (1.5 hours): <a href="https://www.netflix.com/title/80117542">https://www.netflix.com/title/80117542</a>
- The Age of Surveillance Capitalism: <a href="https://www.worldofbooks.com/en-gb/books/professor-shoshana-zuboff/age-of-surveillance-capitalism/">https://www.worldofbooks.com/en-gb/books/professor-shoshana-zuboff/age-of-surveillance-capitalism/</a>
   9781781256855

#### This is bad

#### But you are also an activist, so it's worse.

- It erodes democracy and the right to protest
- The information gathered will be used against you to sabotage protest efforts
- There are companies that specialise in monitoring activists and report back to governments and (oil) companies
  - <a href="https://www.standard.co.uk/news/politics/welund-city-hall-london-xr-b74225.html">https://www.standard.co.uk/news/politics/welund-city-hall-london-xr-b74225.html</a>
  - <a href="https://www.dailykos.com/stories/2018/9/17/1796352/-The-Fossil-Fuel-Industry-is-spying-on-environmental-activists-and-organizations">https://www.dailykos.com/stories/2018/9/17/1796352/-The-Fossil-Fuel-Industry-is-spying-on-environmental-activists-and-organizations</a>
- The information will also be used against you in court

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# City Hall faces questions over contract with spy firm gathering intelligence on protests



#### The Private Intelligence Firm Keeping Tabs on Environmentalists

When big oil companies want to monitor activists, they turn to Welund.

#### **Adam Federman**

Bio











### Scare stories!

# It's clear: we need security and privacy It's not too hard to get it

- We need to secure:
  - Devices
  - Communication
  - Storage
  - Using the internet (browsing, searching, watching)
- Every person who is secure and private:
  - Keeps themself safe
  - Keeps every single activist they communicate with safe
- It takes one person to endanger an entire network of people

## Communication

#### Signal 'Data Linked To You'

#### iMessage 'Data Linked To You'

Contact Info  Email Address  Phone Number	Search History  State of the St

#### WhatsApp 'Data Linked To You'

Analytics		App Functionality	
	Purchases		Purchases
	Purchase Holory		Purchase History
4	Location	CHI	Financial Info
	Coarse Location		Payment Info
0	Contact Info	4	Location
	Phone Number		Coarse Location
574	User Content	0	Contact Info
-	Öther User Content		Email Address Phone Number
00	Identifiers		
	User ID	(8)	Contacts
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	Product Interaction		Customer Support
	Advertising Data		Other User Content
0	Diagnostics	00	Identifiers
	Crash Data		User ID
	Performance Data		Device ID
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			Product Interaction
		0	Diagnostics
			Crash Data
			Performance Data
			Other Diagnostic Data

#### Facebook Messenger 'Data Linked To You'

Third-Party Advertising	Analytics	Product Personalisation	App Functionality	Other Purposes
Purchases Purchase History	O Health & Fitness Health Fitness	Purchases Purchase History	O Health & Fitness Health Fitness	Purchases Purchase History
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### Communication - main points

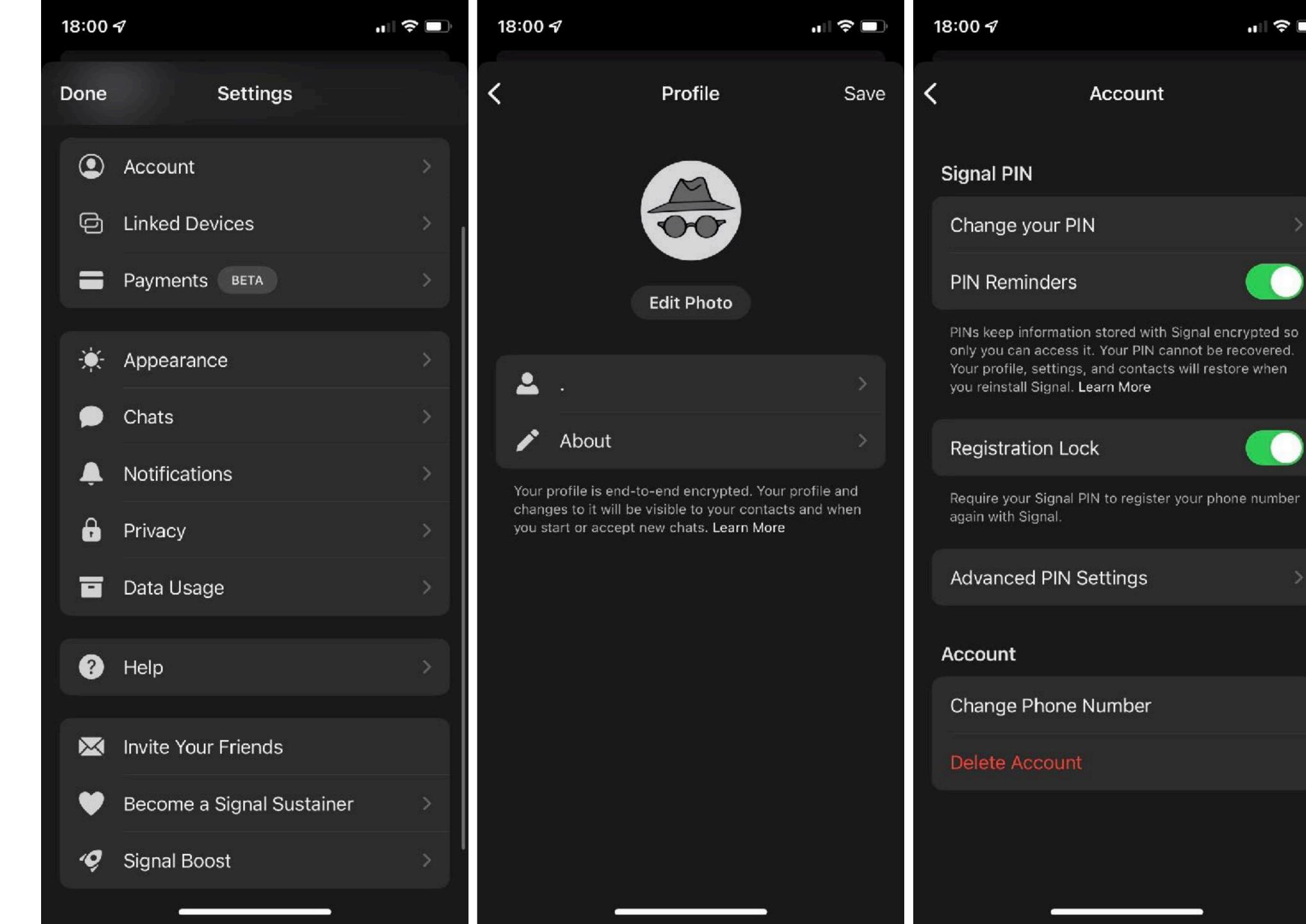
- For calling and messaging people/groups:
  - Use Signal by default
  - Definitely avoid Facebook Messenger and SMS texts
  - Avoid WhatsApp if possible
  - Always use disappearing messages, and before an action, reduce the time they take to disappear proportionally
  - Avoid putting your real name or details in your profile choose an alias
- Email:
  - Use Protonmail <a href="https://protonmail.com/">https://protonmail.com/</a>
  - Definitely avoid Gmail, Outlook, Hotmail etc.
  - Enable FaceID, TouchID, or PIN on the app
- Meetings:
  - Use Signal for up to 40 people
  - Otherwise, Zoom is okay IF END-TO-END ENCRYPTION IS ENABLED (this is not the default)

## End-to-end encryption vs. encryption

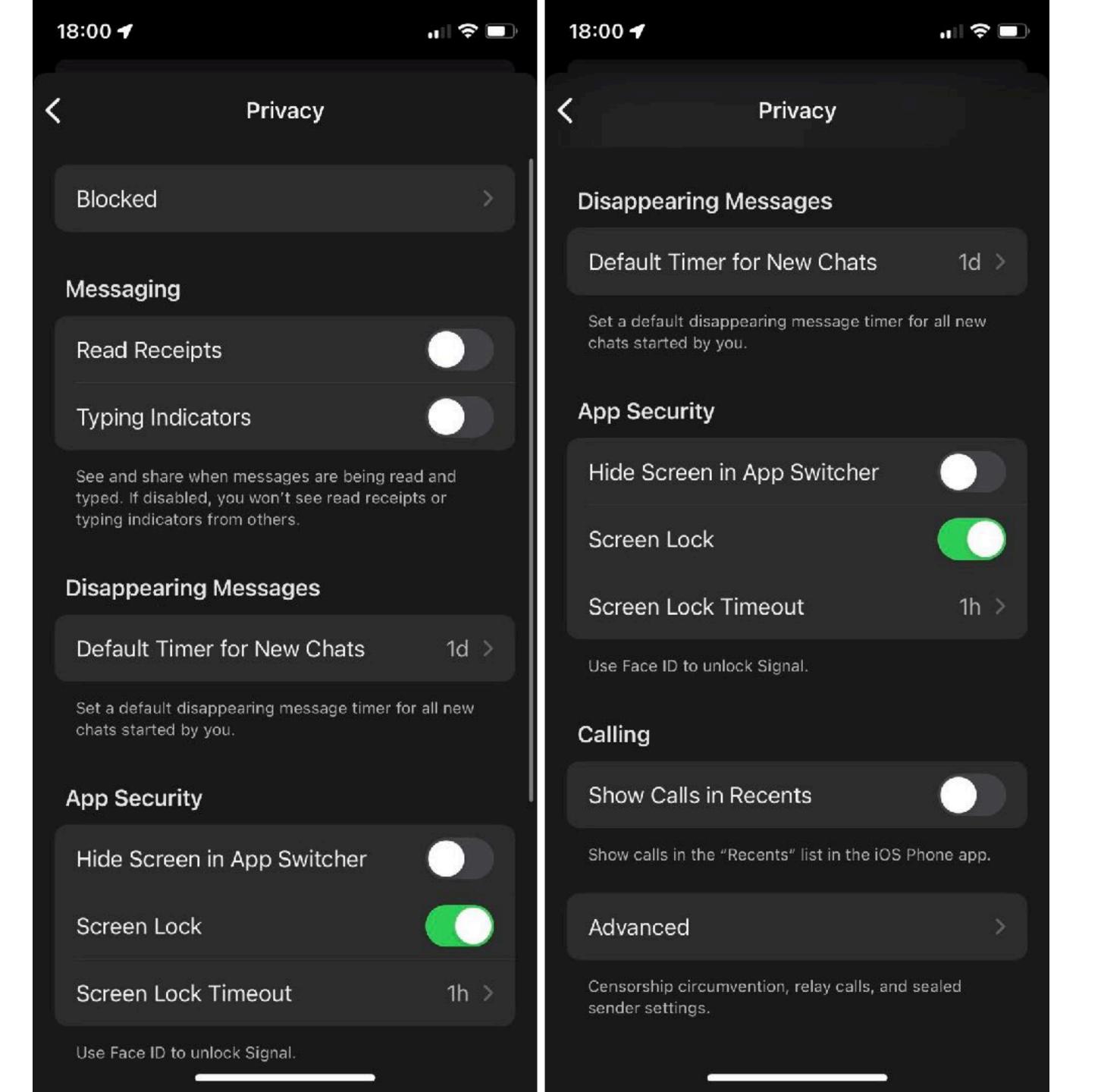
- End-to-end only you and the other end users of the call or messages can read/see the content
  - If it doesn't say end-to-end, it's not end-to-end (e.g. Zoom's default)
- Not end-to-end the company running your chats or call can read/see the content and:
  - Watch/read it in real time
  - Record it for later
  - Send it to the police or government

## Important Signal settings

- Name and photo use an alias and generic picture
- Account
  - Add a PIN and turn on PIN reminders
  - Turn on registration lock
- Privacy
  - Set default disappearing messages
  - Turn on screen lock
  - Don't show calls in recents



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# Using the internet

### Using the internet - main points

#### For phone and computer

- Browser
  - Definitely don't use Chrome or Edge
  - Use Brave browser <a href="https://brave.com/">https://brave.com/</a>
  - Alternatively, Safari is okayish
- Use a VPN
- Use DuckDuckGo instead of Google for search <a href="http://duckduckgo.com">http://duckduckgo.com</a>
- Use a password manager (Apple has Keychain built in)
- Don't use public or free wifi (without a VPN)
- Log out of Google and Microsoft in your apps

#### **VPN**

#### For phone and computer

- Hides your IP address (i.e. hides your physical location)
- Hides your internet activity from your service provider who will be logging and tracking you (they're surveillance capitalists now)
  - Your service provider is legally obliged to hand over data on what you've been doing when asked by the government/police
- Blocks malware, ads, and trackers
- Have Protonmail? Then you also have a ProtonVPN account
- https://protonvpn.com/

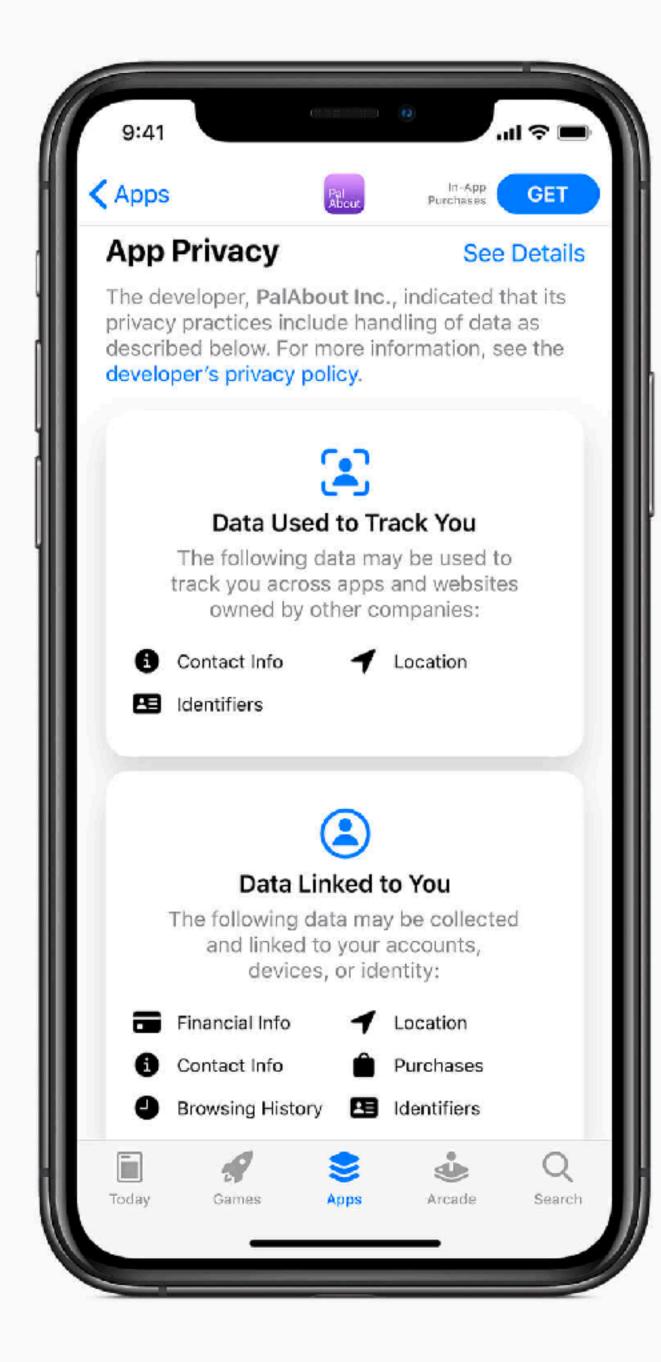
## Online office and storage

- Use <u>cryptpad.fr</u> by default
- If you use Google Drive:
  - Set the privacy settings to maximum
  - Make it as anonymous as possible (e.g. make an account for your local group that you share)
  - Never store activists' personal details
  - Never store spicy action details
  - Avoid using Google drive as much as possible

# Phone security

## Phone security - main points

- Encryption!! (doesn't work unless phone is turned off)
- Passcode not face or fingerprint; delete data on 10 failed attempts
- Don't show notification details unless unlocked
- Disable app tracking
- Limit access to location services and other personal things
- Don't use Google maps use Apple maps
- Don't name your phone after yourself
- Disable targeted ads
- Avoid taking your phone to protests where you are likely to be arrested
- If you take your phone:
  - Fully turn off wifi and bluetooth at protests
  - Turn off your phone your phone when you can, and definitely before arrest



## Main points continued

- Remove unused apps
- Always update your phone and apps

### If your device is seized

- You are under no legal obligation to open it, no matter what they say to you.
   They will try and scare you in to opening it
- If you give them the passcode, they will have full access to your phone, potentially forever
- This puts all your activist friends at high risk of raids, arrest, and conviction

### If your device is about to be seized

- If you have time, clear data on signal and delete the app
- If you don't have time for this, just switch the phone off
- Try and hide the phone or give it to someone else
- Don't respond to questions about where the phone is or may be no comment

# Computer security

## Computer security - main points

- Encryption!! (doesn't work unless computer is turned off)
- Require password immediately; don't use biometrics
- Firewall
- Don't name your laptop after yourself
- Limit access to location services and other personal things
- Don't show notification details unless unlocked
- If using Safari, prevent cross-site tracking

## Main points continued

- Remove unused apps
- Always update your phone and apps