

# Data Privacy: Policies and

# Current Events

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# Hey Everyone....

If a stranger shares your tacos with someone else, how would you feel?



# Definitions

## What is Data Privacy?

Wikipedia says:

Data privacy is the relationship between the collection and dissemination of data, technology, the public expectation of privacy, legal and political issues surrounding them. It is also known as information privacy or data protection.



# UBER CUSTOMERS HIT WITH HEAVY CHARGES FOR 'PHANTOM' TRIPS THEY HAVEN'T TAKEN

LOCAL

## Portland woman who has never used Uber gets \$100 charge

A Portland woman discovered about \$100 worth of fraudulent charge from Uber on her credit card.

Author: Lindsay Nadrich  
Published: 8:59 PM EDT May 24, 2018  
Updated: 9:20 PM EDT May 24, 2018

PORTLAND, Ore. — A Portland woman discovered about \$100 worth of fraudulent charges from Uber on her credit card. The charges were for rides in California and she has never even used the service.

Long Island man billed nearly \$1,900 in fraudulent Uber charges



<https://www.abc7.com>

# Convenient But Unstable

- Today, there are many convenient apps be created like Uber, usually, they make people's life easier.
- However, in the process of information's virtualization, many things are unstable.
- No one could guarantee that everything is safe in the virtual world right now.
- When accounts are hacked, most of the people can do nothing except call the company.



# Importance of Policy

Nowadays, people are trying to get deeper into the virtual world.

- No rules, no standard
- Policy will constrain people's behavior.



# What Are We Going To Talk About?

- Current Events in Data Privacy
  - Apple IOS13
  - Huawei
  - 5G
- Policies Regarding Data Privacy
  - Right to be forgotten
  - GDPR
  - Proposed Legislation



# Current Events in Data Privacy



# Current Events

- Apple IOS 13
- Huawei vs 5G network

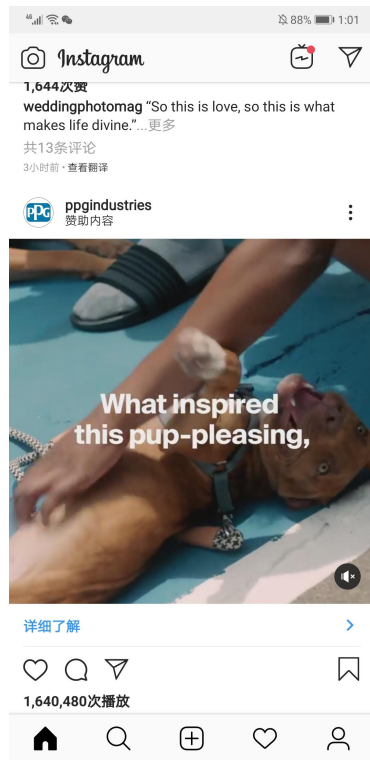


# Current Event - Apple IOS13

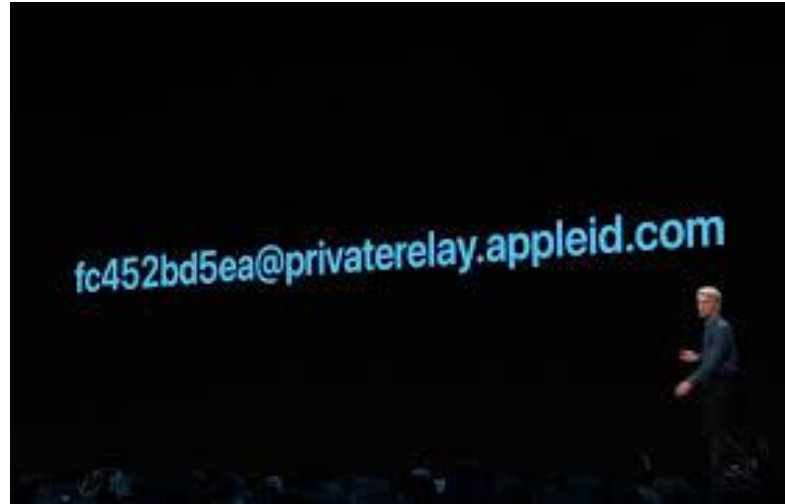


- Sign with Apple

# Current Event- Apple IOS13



# Current Event - Apple IOS13



# Current Event - Apple IOS13



- Sign with Apple
- Share Location “JUST ONCE”

# Current Event- Apple IOS13



# Current Event - Apple IOS13



- Sign with Apple
- Share Location “JUST ONCE”
- Find My

# Current Event- Apple IOS13





# Current Event - Apple IOS13



- Sign with Apple
- Share Location “JUST ONCE”
- Find My
- MacOS security
- Voice Control
- HomeKit Protection

Current E



# Current Event - Huawei

Back Door

Steal T-mobile Tech - Tabby

Connection to China Government

Espionage



# Current Event 5G

“5G research and development aim at various advanced characteristics, such as higher capacity than current 4G, higher density of mobile broadband users, and supporting device-to-device (D2D) communications and massive machine-type communications”(NGMN 5G White Paper, Frankfurt, Germany, Feb. 2015)

Privacy in 5G networks will be crucial because it will bring huge transformation in terms of new daily life applications and access modes of digital services(An Braeken, Madhusanka Liyanage, Pardeep Kumar, John Murphy, "Novel 5G Authentication Protocol to Improve the Resistance Against Active Attacks and Malicious Serving Networks", *Access IEEE*, vol. 7, pp. 64040-64052, 2019.)



# Current Event -5G Privacy

- Location Privacy- HetNets a decentralized algorithm for access point selection
- Contextual Privacy -encrypted by a pseudo identity of the source client with the public key
- Identity Privacy- security access + mutual authentication





# Policies Regarding Data Privacy

# Right To Be Forgotten

- What does this mean?
  - "The right to silence on past events in life that are no longer occurring."
  - Example: Asking to have a photo taken down
- Important keystone issue in balancing corporate interests vs. user rights
- Companies want to profit off data; users want ownership of online identity
- No real agreement yet, but a growing concern on all sides
- No standard for this in America; international legislation is difficult
- Best example of broad policy effort today is EU



# GDPR(General Data Protection Regulation)

- What is GDPR?
  - “A legal framework that sets guidelines for the collection and processing of personal information from individuals who live in the European Union (EU).”
- Passed by EU in 2016; took effect in 2018
- Much stronger rules for consent
- Requires policies to be easy to read/understand
- Has many critics, but is a commendable effort at establishing international standards





## Facebook and Google Sued on Day One of GDPR



Google and Facebook got off to a great start on the first day of the new General Data Protection Regulations – being sued for billions of euros for coercing users into a



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## GDPR: Google and Facebook face up to \$9.3B in fines on first day of new privacy law

An Austrian privacy group is wasting no time.

BY SEAN KEANE | MAY 25, 2018 12:49 PM PDT



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## Google faces GDPR complaint over 'deceptive' location tracking

Natasha Lomas | @riptari | 8 months ago

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## Facebook and Google hit with \$8.8 billion in lawsuits on day one of GDPR

By [Russell Brandom](#) | May 25, 2018, 10:21am EDT

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# Proposed Legislation

- CONSENT Act (Customer Online Notification for Stopping Edge-Provider Network Transgressions)
  - Notifications sent when data is being gathered
  - Gives the FTC jurisdiction to prosecute violators
- Social Media Privacy Protection and Consumer Rights Act of 2018
  - Discloses privacy policies and obtains consent on privacy preferences
  - Examples: opting out of data gathering, notifications etc.
- California's Privacy Bill
  - Restricts selling data to persons younger than 16





# POSITION STATEMENT

# Any Questions?



"Before I write my name on the board, I'll need to know how you're planning to use that data."

# Sources

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