CS50 for JDs

Privacy, Security

privacy

NETFLIX

Netflix Prize

User ID, Movie Title, Date, Rating

100M ratings, 500K users, 18K movie titles, rating scale of 1–5

3M ratings withheld

cs50.ly/netflix

Netflix Spilled Your Brokeback Mountain Secret, Lawsuit Claims

Doe v. Netflix

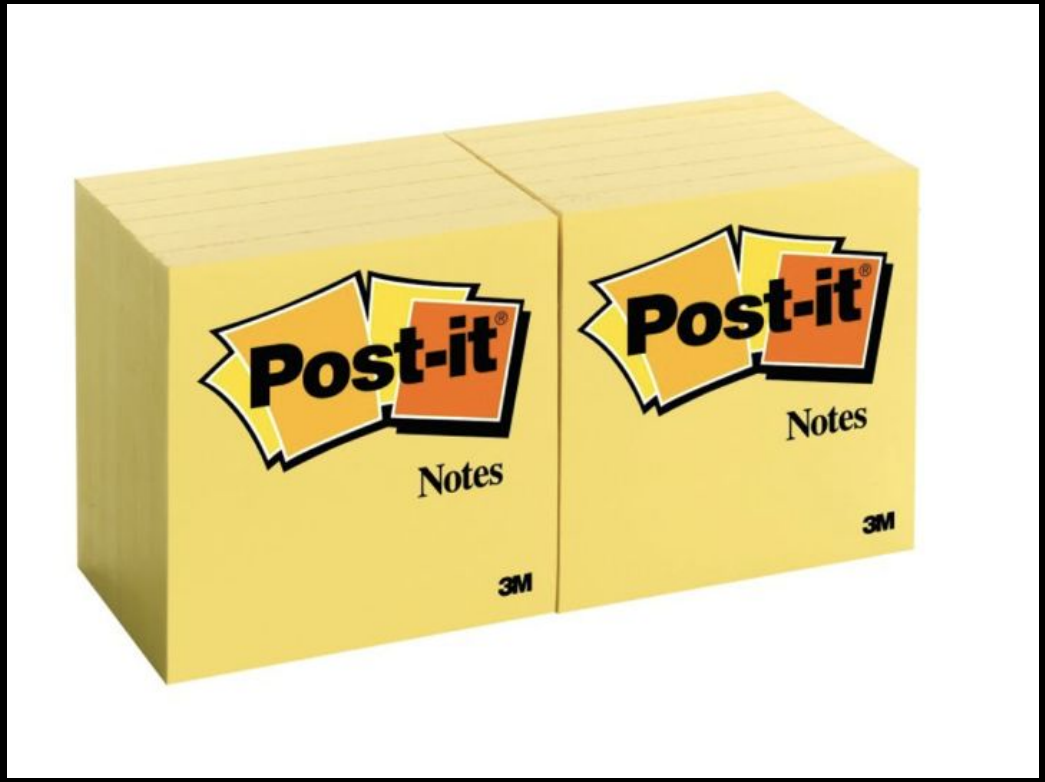
Robust De-anonymization of Large Datasets

(How to Break Anonymity of the Netflix Prize Dataset)

security

secure

passwords


Post-it
Notes
3M
Post-it
Notes
3M

1. guest
2. 123456
3. password
4. 12345
5. a1b2c3
6. 123456789
7. Password1
8. 1234
9. abc123
10. 12345678

brute-force attacks

4-digit passcode

$$10 \times 10 \times 10 \times 10$$

10,000

4-letter passcode

$$52 \times 52 \times 52 \times 52$$

7,311,616

4-character passcode

$$94 \times 94 \times 94 \times 94$$

78,074,896

8-character passcode

$$94 \times 94 \times 94 \times 94 \times 94 \times 94 \times 94 \times 94$$

6,095,689,385,410,816

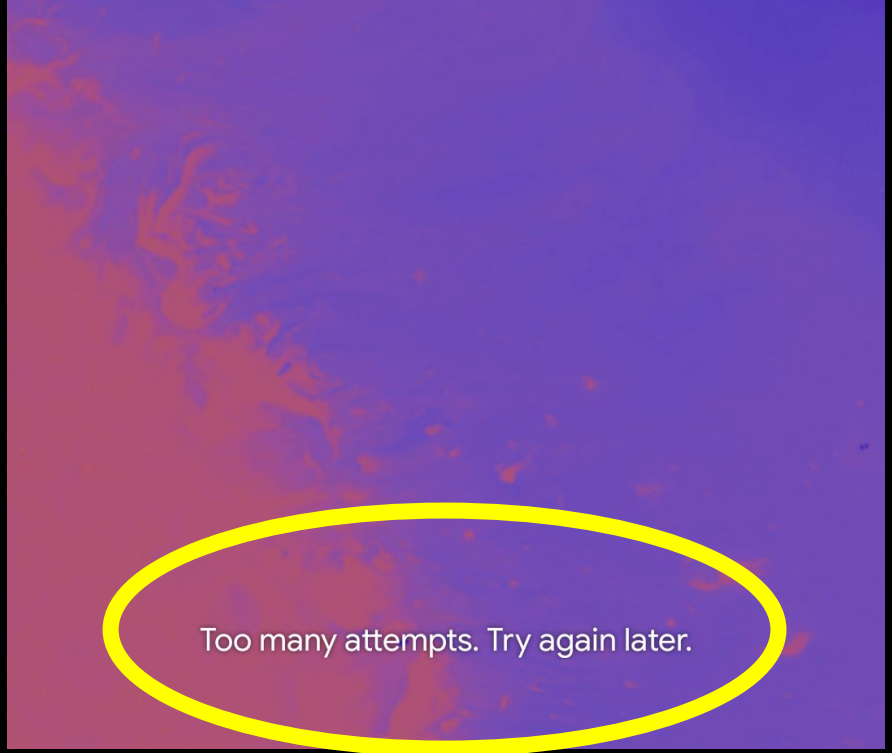
9:41
Tuesday, July 24
iPhone is disabled
try again in 1 minute
Emergency

9:41
Tuesday, July 24
iPhone is disabled
try again in 1 minute
Emergency

9:41
Tuesday, July 24
iPhone is disabled
try again in 1 minute
Emergency

Google Fi
60%
11:27
Thu, May 28
24°C
Too many attempts. Try again later.

Google Fi
60%
11:27
Thu, May 28
24°C
Too many attempts. Try again later.


Too many attempts. Try again later.

two-factor authentication

RSA
SecurID
159 759

123456
123456

keyloggers

SSO

password managers

1password.com

~~lastpass.com~~

...

December 22, 2022 | By Karim Toubba

Notice of Recent Security Incident

Update as of Thursday, December 22, 2022

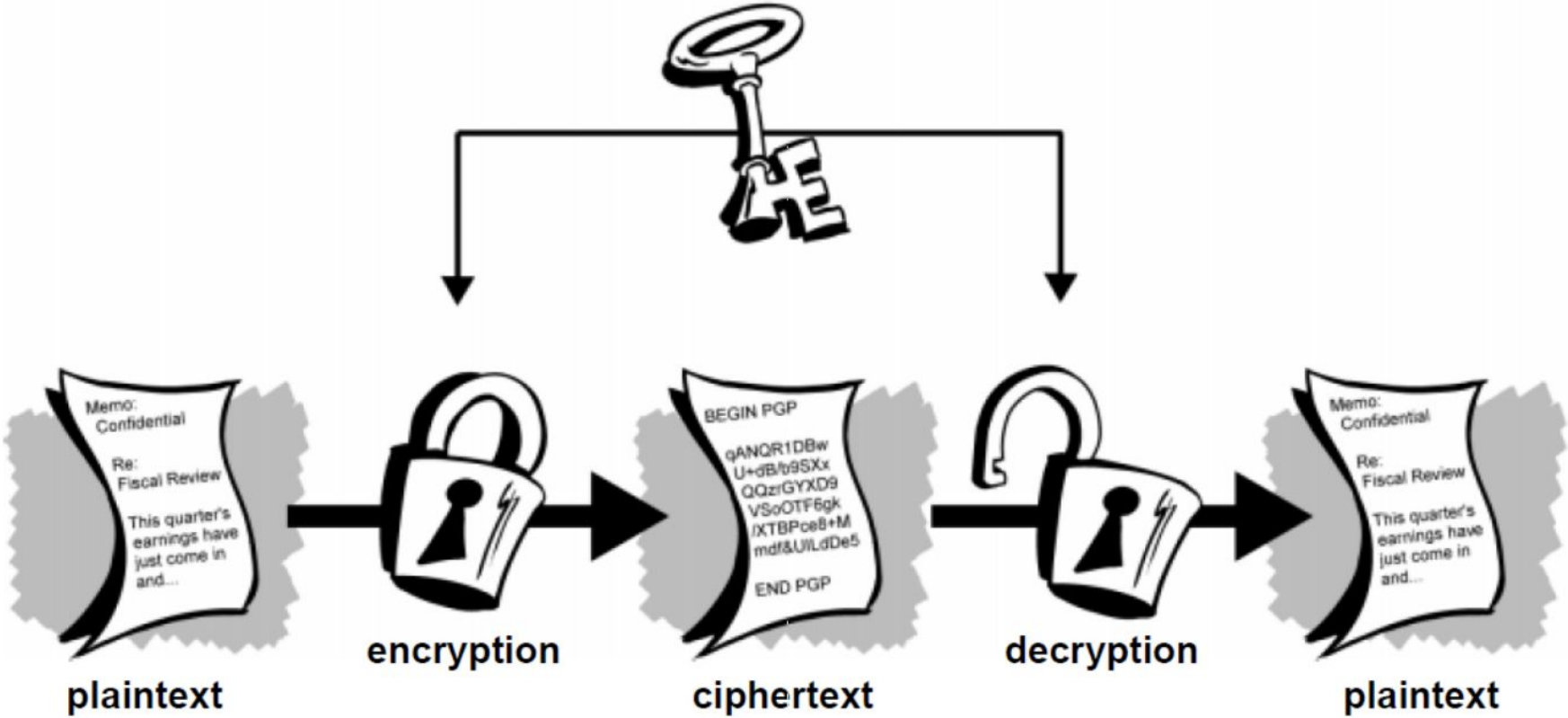
hashes

forgot password?

encryption

Or fher gb qevax lbhe Binygvar.

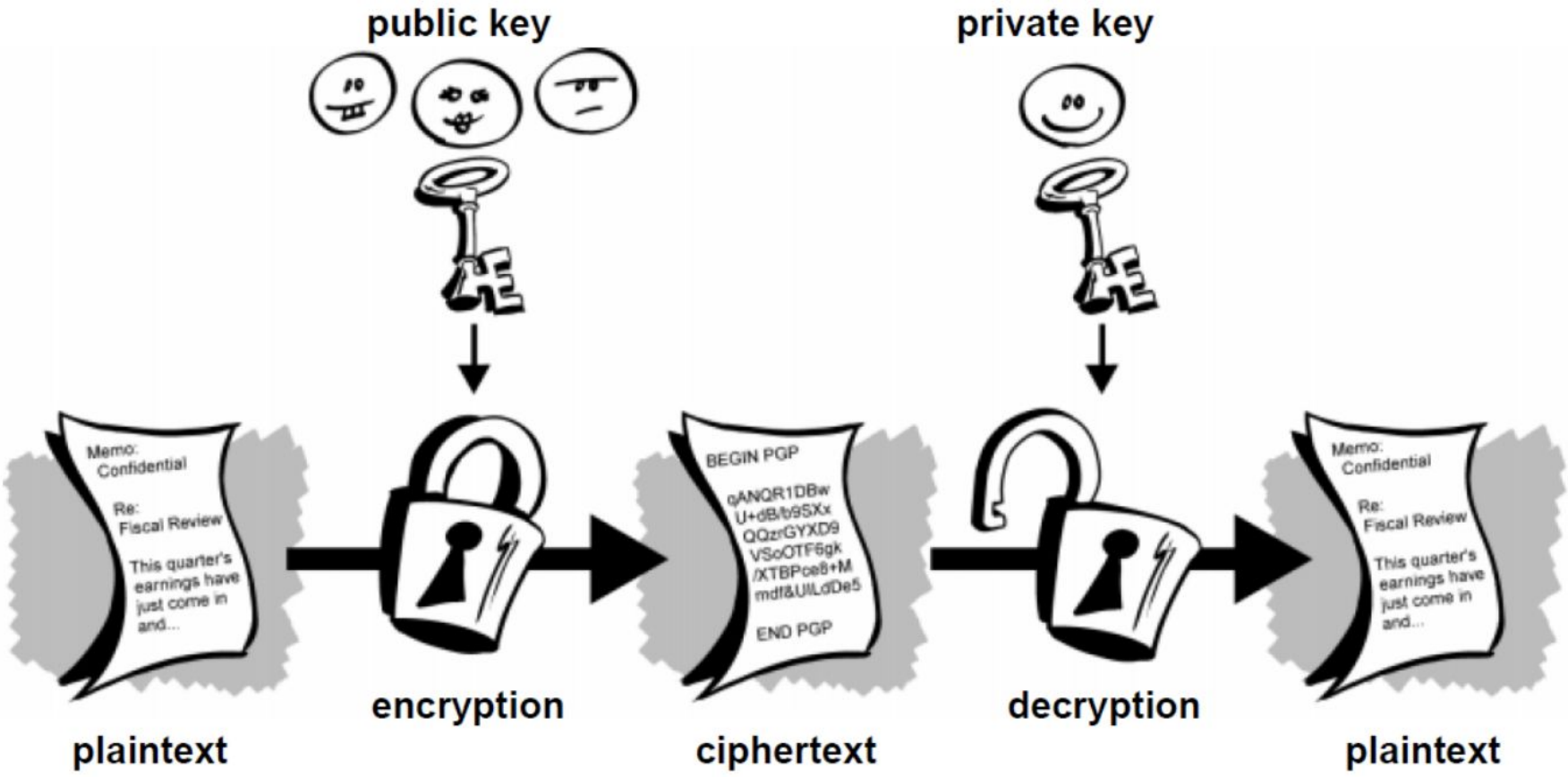
secret-key encryption


Memo:
Confidential
Re:
Fiscal Review
This quarter's earnings have just come in and...
BEGIN PGP
qANQR1DBw
U+dB/b9SXx
QQzrGYXD9
VSoOTF6gk
/XTBPce8+M
mdf&UlLdDe5
END PGP
Memo:
Confidential
Re:
Fiscal Review
This quarter's earnings have just come in and...
encryption
decryption
plaintext
ciphertext
plaintext

Or fher gb qevax lbhe Binygvar.

Be sure to drink your Ovaltine.

public-key encryption


public key
private key
Memo:
Confidential
Re:
Fiscal Review
This quarter's earnings have just come in and...
BEGIN PGP
qANQR1DBw
U+dB/b9SXx
QQzrGYXD9
VSoOTF6gk
/XTBPoe8+M
mdf&UlLdDe5
END PGP
Memo:
Confidential
Re:
Fiscal Review
This quarter's earnings have just come in and...
encryption
decryption
plaintext
ciphertext
plaintext

HTTPS

email

Report Phishing

Deleting helps you, reporting helps everyone.

phishing@harvard.edu

Learn to click wisely at security.harvard.edu.

HARVARD UNIVERSITY

Small Actions. Big Difference.
You help keep Harvard secure.

Confidential mode

Recipients won't have the option to forward, copy, print, or download this email. Learn more

SET EXPIRATION

Expires in 1 week ▾ Thu, Nov 4, 2021

REQUIRE PASSCODE

All passcodes will be generated by Google. ⓘ

◉ No SMS passcode ○ SMS passcode

Cancel **Save**

end-to-end encryption

PGP

"WhatsApp" Would Like to Access Your Contacts

WhatsApp syncs only phone numbers from your address book to WhatsApp servers to help you connect with other WhatsApp users.

Don't Allow | OK

Tap "Agree & Continue" to accept the WhatsApp Terms of Service and Privacy Policy

Agree & Continue

digital signatures

VPNs

haveibeenpwned.com

ransomware

storage

crucial
by Micron
8BBI2
D9HXT
8BBI2
D9HXT
4G85
4G85
4G85
47J6

amazon.com

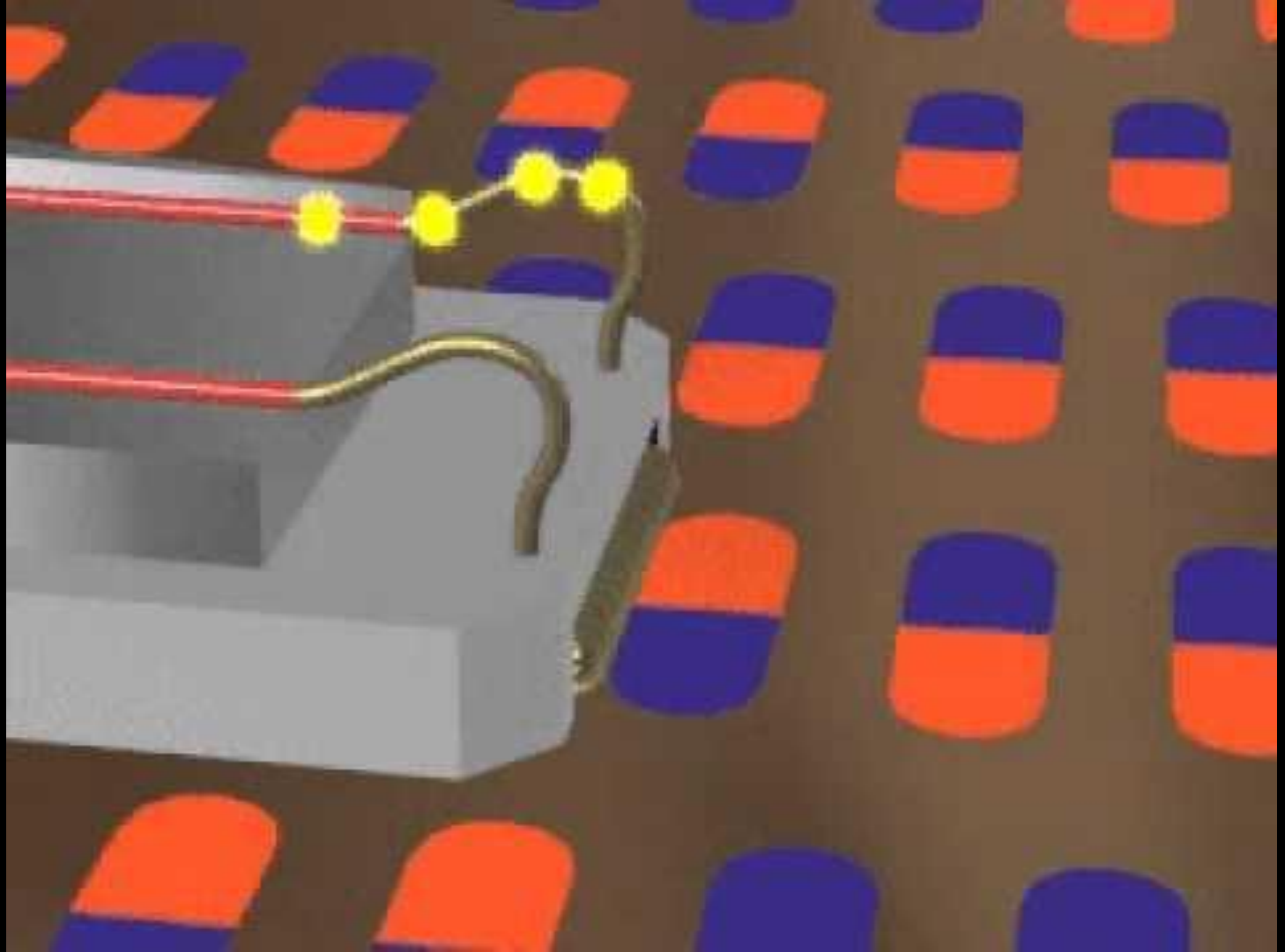
WARRANTY VOID IF AUTHENTICITY LABEL REMOVED OR DAMAGED.
POWER DOWN THEN EJECT

intel

SanDisk

My Passport
Ultra

WD
My Book



dban.org

full-disk encryption

ransomware

viruses, worms

antivirus software

automatic updates

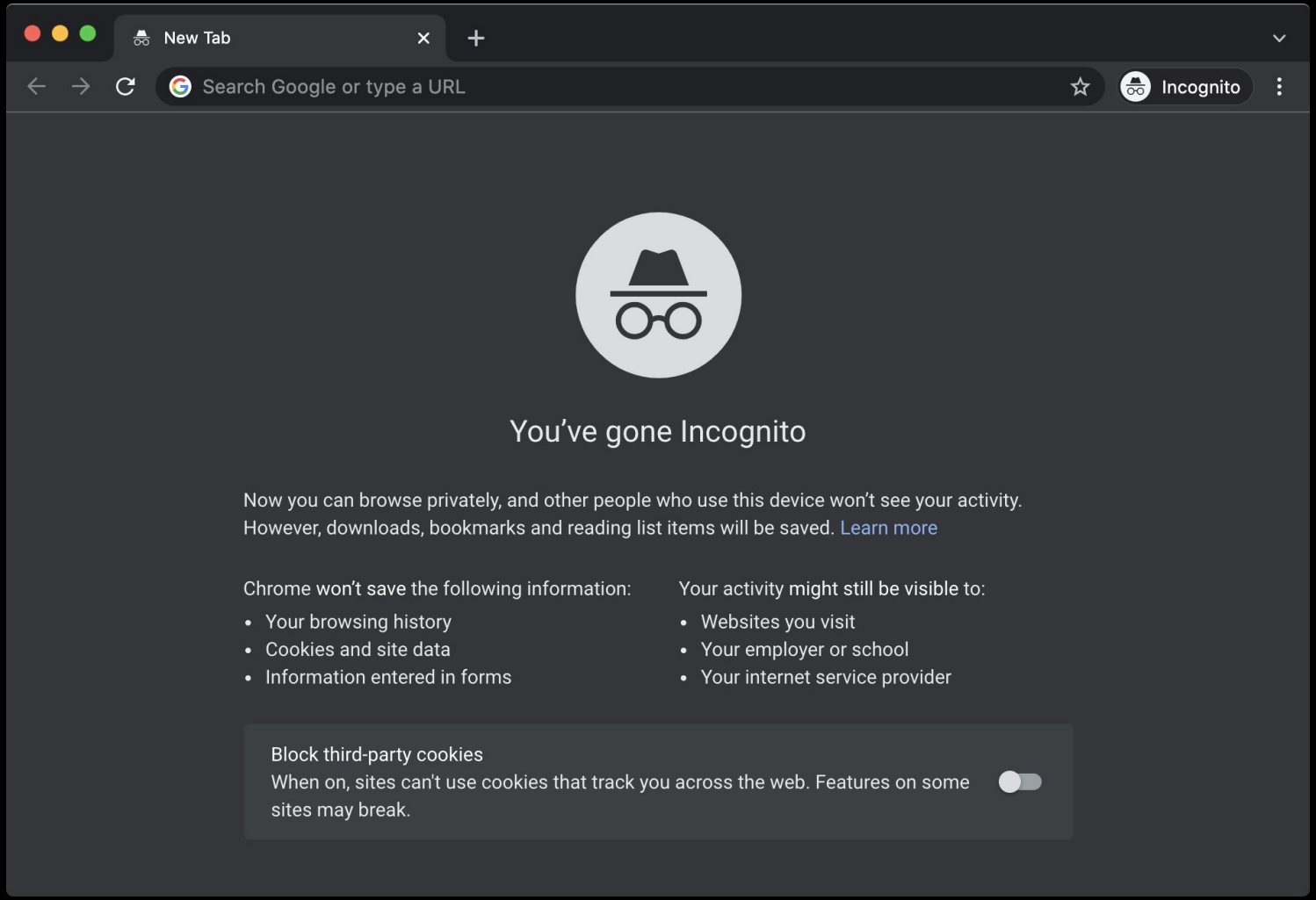
port scanning

firewalls

open source v. closed source

incognito mode

cookies


New Tab
Search Google or type a URL
Incognito
You've gone Incognito
Now you can browse privately, and other people who use this device won't see your activity. However, downloads, bookmarks and reading list items will be saved. Learn more
Chrome won't save the following information:
Your browsing history
Cookies and site data
Information entered in forms
Your activity might still be visible to:
Websites you visit
Your employer or school
Your internet service provider
Block third-party cookies
When on, sites can't use cookies that track you across the web. Features on some sites may break.

DELETE COOKIES?!
gegen-den-strich.com
FERNANDEZ

Join Zoom Meeting

https://zoom.us/j/XXXXXXXXXXX?pwd=YYYYYYYYYY

Meeting ID: XXX XXXX XXXX

Passcode: ZZZZZZ

Assignment 6

Office Hours

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