

Welcome to

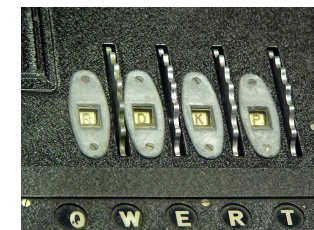
Introduction Signal and Tor 10 Minute

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Cryptoparty PDF available kramshoej@Github

What is Signal? Encrypted Instant Messaging



PRIVACY THAT FITS IN YOUR POCKET



“ Use anything by
Open Whisper Systems.

— **Edward Snowden**,
Whistleblower and privacy
advocate



“ Signal is the most
scalable encryption tool
we have. It is free and peer
reviewed. I encourage
people to use it everyday.

— **Laura Poitras**, Oscar
winning filmmaker and
journalist



“ I am regularly
impressed with the
thought and care put into
both the security and the
usability of this app. It's my
first choice for an
encrypted conversation.

— **Bruce Schneier**,
internationally renowned
security technologist



“ After reading the
code, I literally discovered
a line of drool running
down my face. It's really
nice.

— **Matt Green**, Cryptographer,
Johns Hopkins University

Signal is a free and open-source encrypted voice calling and instant messaging application for iOS and Android. It uses end-to-end encryption to secure all communications to other Signal users. Signal can be used to send and receive encrypted instant messages, group messages, attachments and media messages.

Quote from: [https://en.wikipedia.org/wiki/Signal_\(software\)](https://en.wikipedia.org/wiki/Signal_(software))

Why use Signal?



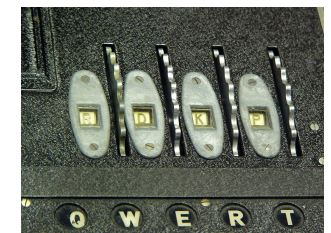
- Texting with regular SMS is not private
- You have something to hide, it's called privacy
- You like to send your partner interesting messages
- You are taking pictures intended for a single recipient
- You need to send someone a password (initial pw of course, change immediately)

and when: it's none of your fucking business!

Similar question, why do we still have envelopes?

Software home page <https://whispersystems.org/>

Signal iPhone App Store



Signal – Private Messenger

[View More by This Developer](#)

By Open Whisper Systems

Open iTunes to buy and download apps.



[View in iTunes](#)

Free

Category: [Social Networking](#)

Updated: Nov 10, 2015

Version: 2.2

Size: 13.3 MB

Languages: English, Azerbaijani, Bosnian, Bulgarian, Catalan, Croatian, Czech, Danish, Dutch, Filipino, Finnish, French, German, Greek, Hungarian, Italian, Japanese, Korean, Latvian, Norwegian Bokmål, Polish, Portuguese, Romanian, Russian, Simplified Chinese, Slovenian, Spanish, Swedish, Thai, Turkish

Seller: RIDDLE QUIET VENTURES, LLC

© Open Whisper Systems

Rated 4+

Compatibility: Requires iOS 8.0 or later. Compatible with iPhone, iPad, and iPod touch.

Description

Privacy is possible. Signal makes it easy.

* Say Anything – Send high-quality group, text, picture, and video messages, all without SMS and MMS fees.

[Open Whisper Systems Web Site](#) [Signal – Private Messenger Support](#)

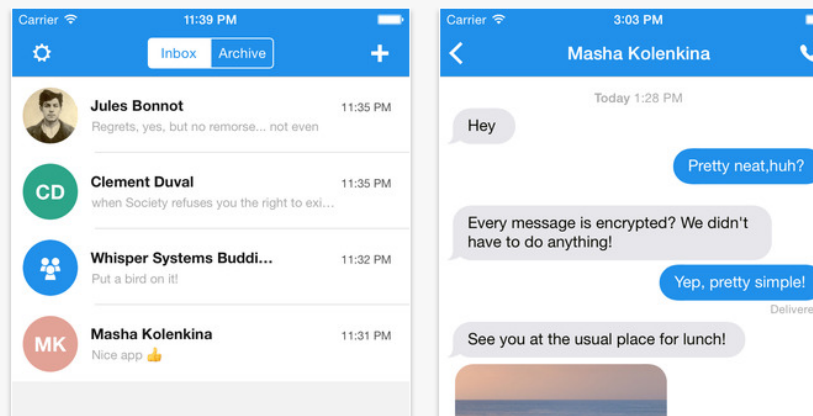
[...More](#)

What's New in Version 2.2

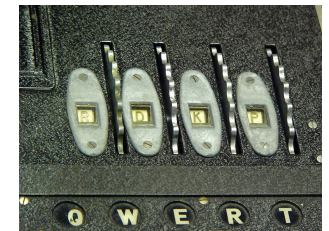
- Optimized for iOS 9 including important performance and reliability improvements.
- Quick Replies: reply to messages from your lock screen. (iOS 9 only)
- 3D Touch Support.

[...More](#)

iPhone Screenshot



Signal Android Google Play Store



Signal Private Messenger

Bedste udvikler

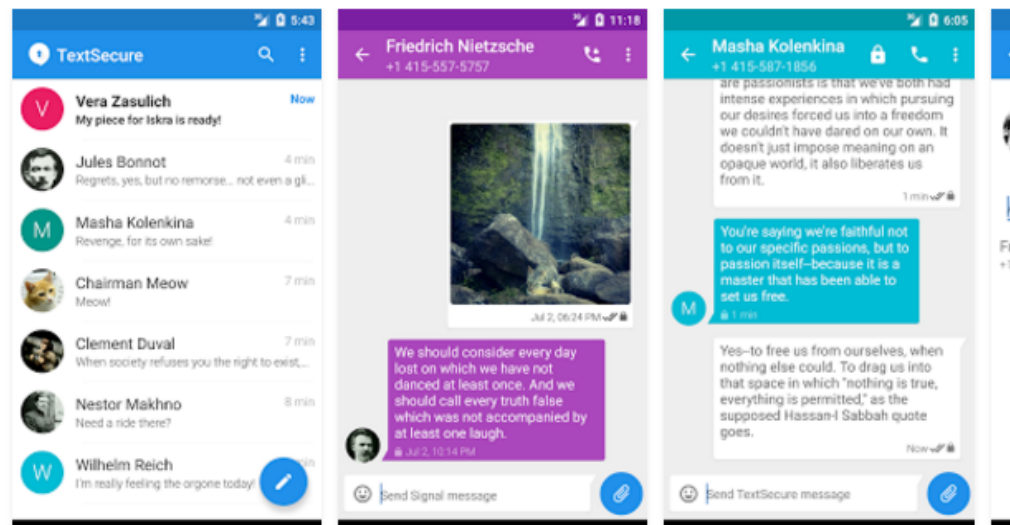
Open Whisper Systems Kommunikation

★★★★★ 53.722

PEGI 3

Denne app er kompatibel med nogle af dine enheder.

Installeret



Tor Project Anonymity Online



Anonymity Online

Protect your privacy. Defend yourself against network surveillance and traffic analysis.

[Download Tor](#)

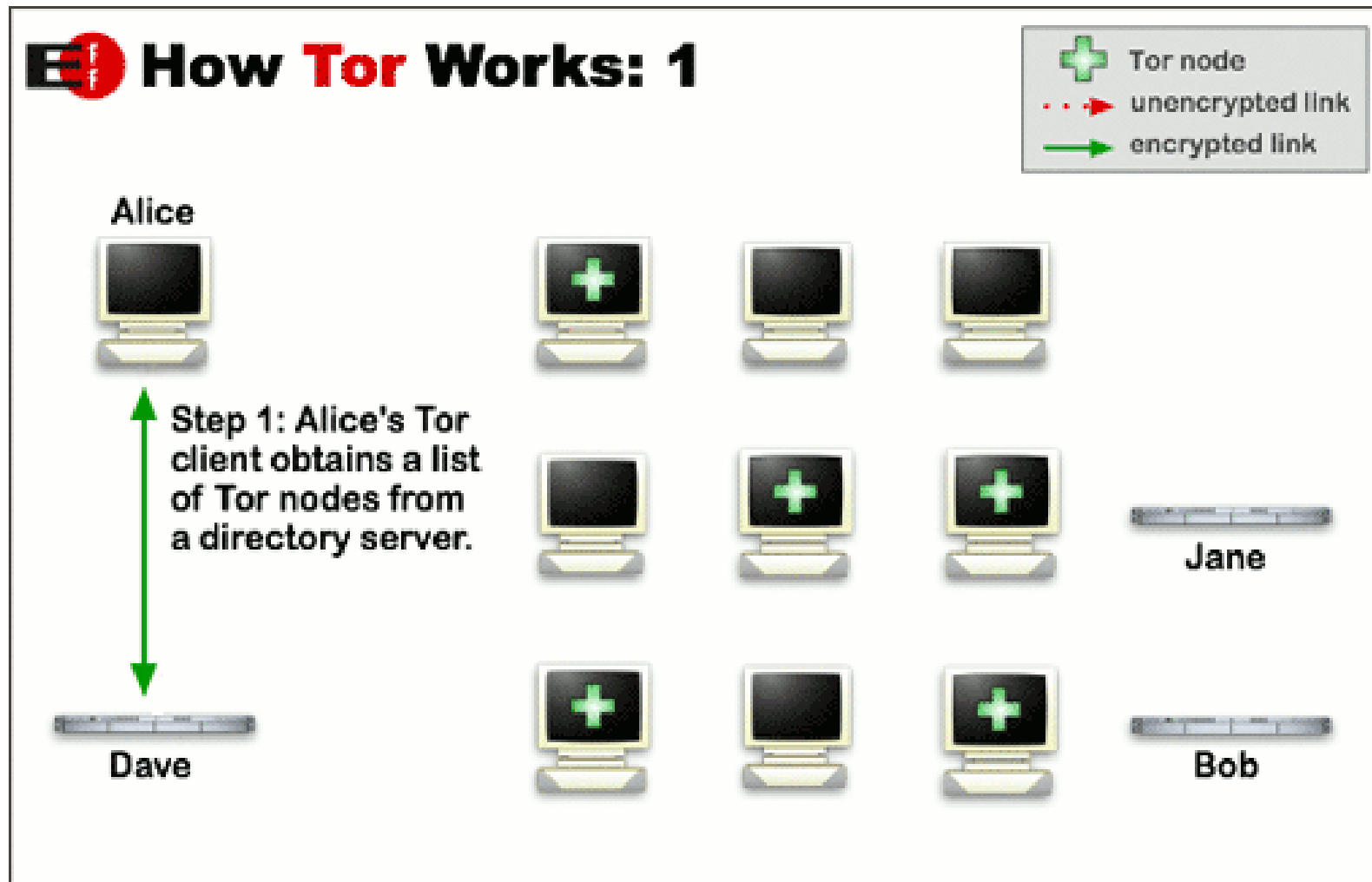
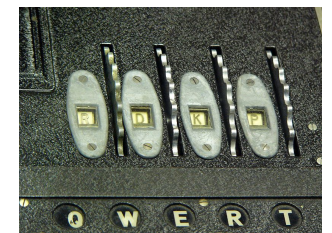
- Tor prevents anyone from learning your location or browsing habits.
- Tor is for web browsers, instant messaging clients, remote logins, and more.
- Tor is free and open source for Windows, Mac, Linux/Unix, and Android

Tor is free software and an open network that helps you defend against traffic analysis, a form of network surveillance that threatens personal freedom and privacy, confidential business activities and relationships, and state security.

Source: <https://www.torproject.org/>

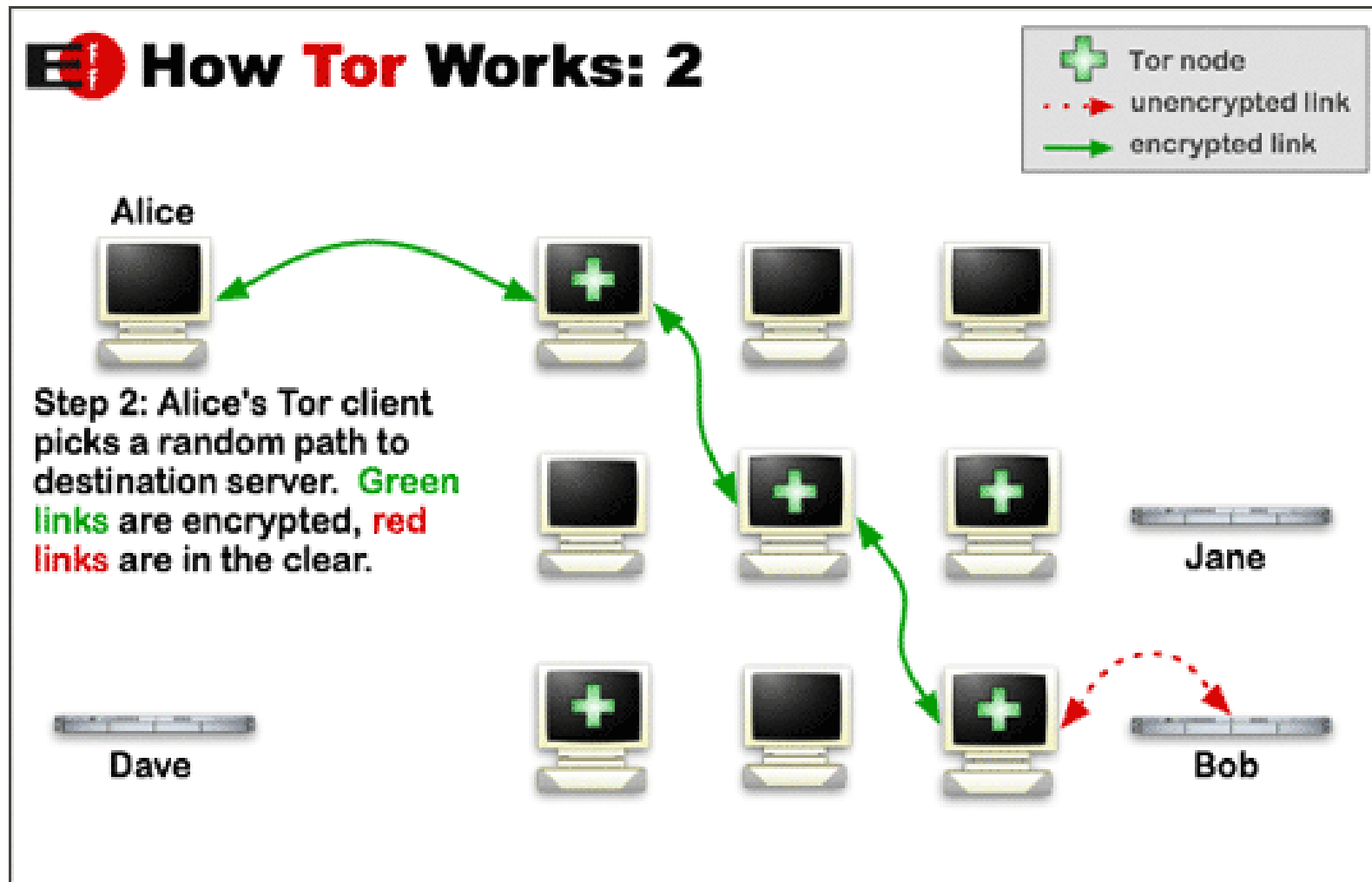
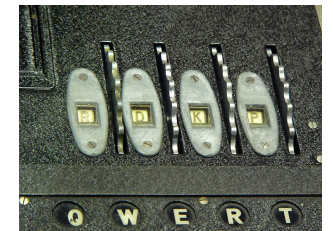
Note: Alternatives exist but Tor well-known

Tor project - how it works 1



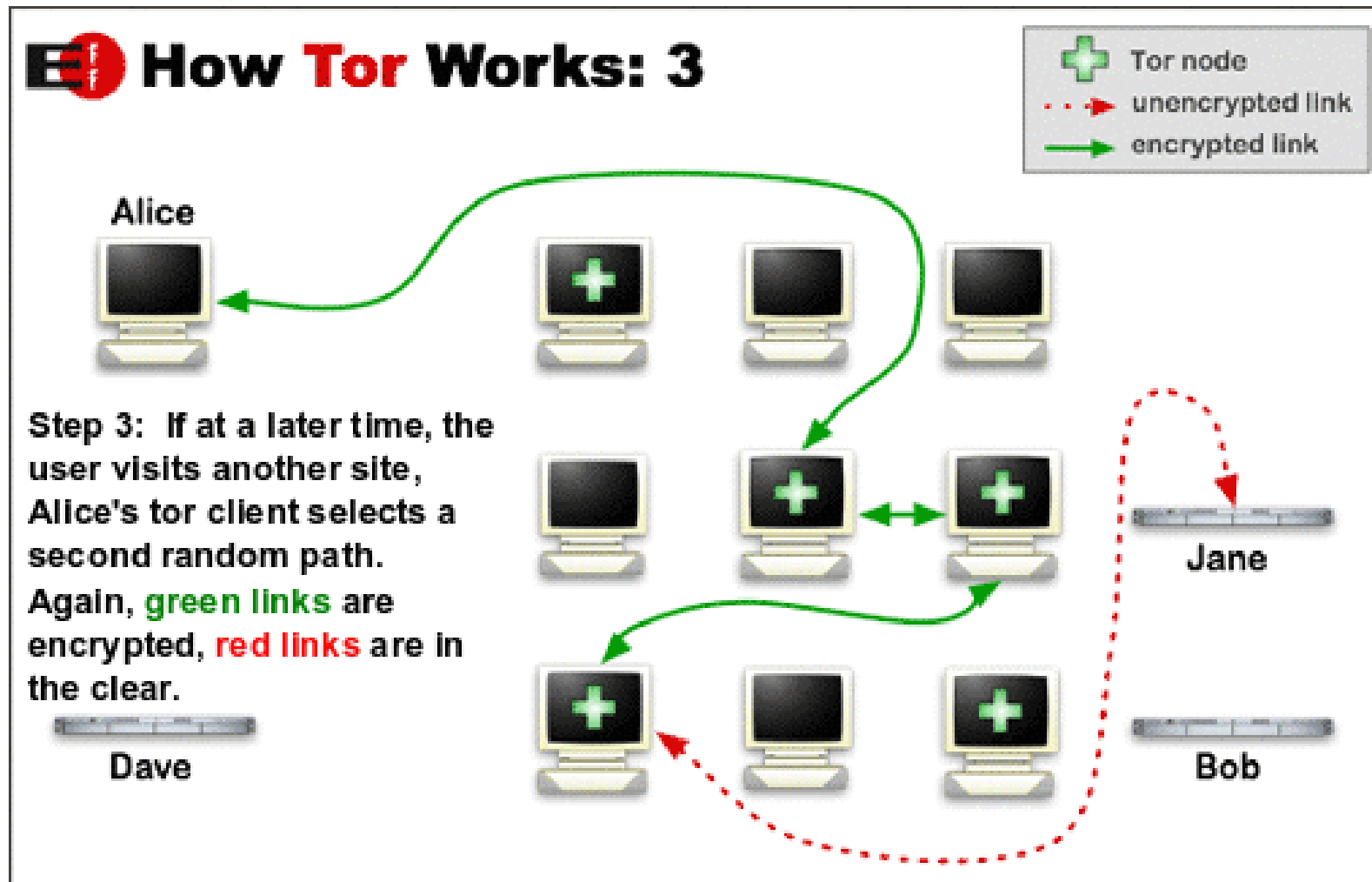
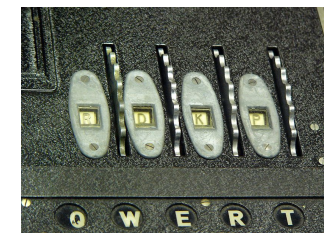
pictures from <https://www.torproject.org/about/overview.html.en>

Tor project - how it works 2



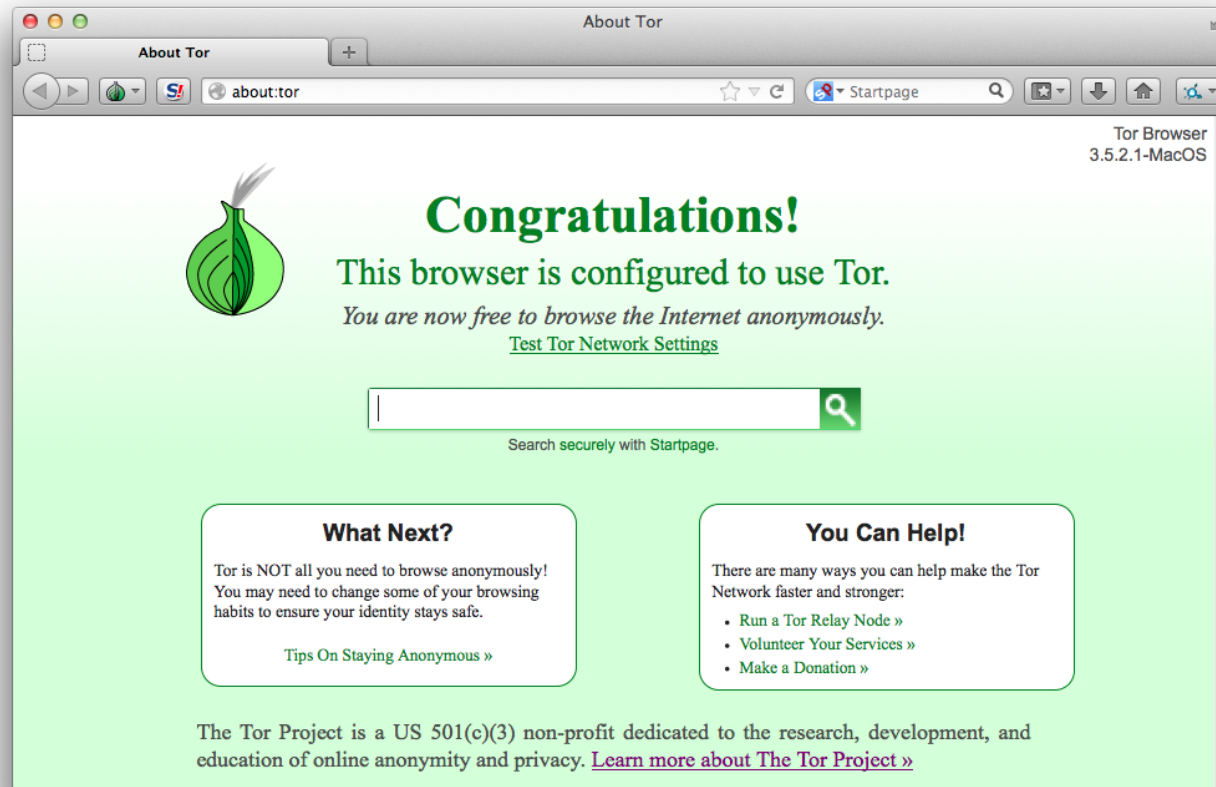
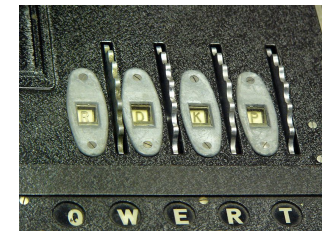
pictures from <https://www.torproject.org/about/overview.html.en>

Tor project - how it works 3



pictures from <https://www.torproject.org/about/overview.html.en>

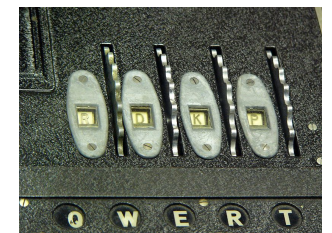
Torbrowser - Anonymous Browsing



Provides Good Anonymity

Note: Perhaps also look into Whonix <https://www.whonix.org/>

Why use Tor?



- Your public IP is **Red Information**, often lead directly to you
- You like to browse things, without telling your ISP, the government, your teacher, ... everyone
- You want to avoid stalkers
- Avoid censorship
- You are an investigative journalist or high school student researching Al Qaeda, Daesh, ISIS for school
- Consider getting the book *The Smart Girl's Guide to Privacy*
<http://smartprivacy.tumblr.com/>

Shameless plug: we are starting up danish information page and more <https://www.torserver.dk/>

Pic from <https://www.torproject.org/>

Who Uses Tor?



Internet.

Family & Friends

People like you and your family use Tor to protect themselves, their children, and their dignity while using the



accountability.

Businesses

Businesses use Tor to research competition, keep business strategies confidential, and facilitate internal



on corruption.

Activists

Activists use Tor to anonymously report abuses from danger zones. Whistleblowers use Tor to safely report



Media

Journalists and the media use Tor to protect their research and sources online.



gathering online.

Military & Law Enforcement

Militaries and law enforcement use Tor to protect their communications, investigations, and intelligence