

ALL ABOUT TOR FOR LIBRARIES

- Librarian and internet activist
- Started LFP in 2013
- Partners with ACLU of Massachusetts
- Work with ACLU affiliates nationally
- Core contributor, The Tor Project
- Library Journal Mover and Shaker 2015

WHO AM I ?



WRITE THIS STUFF DOWN



twitter:

@flexlibris

@libraryfreedom



email:

info@libraryfreedomproject.org

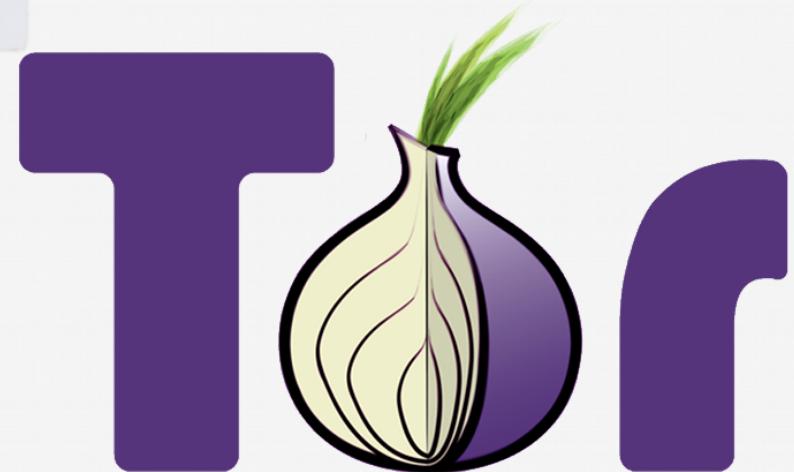
alison@torproject.org

link list: libraryfreedomproject.org/allabouttor

mailing list: lists.riseup.net/www/subscribe/libraryfreedom

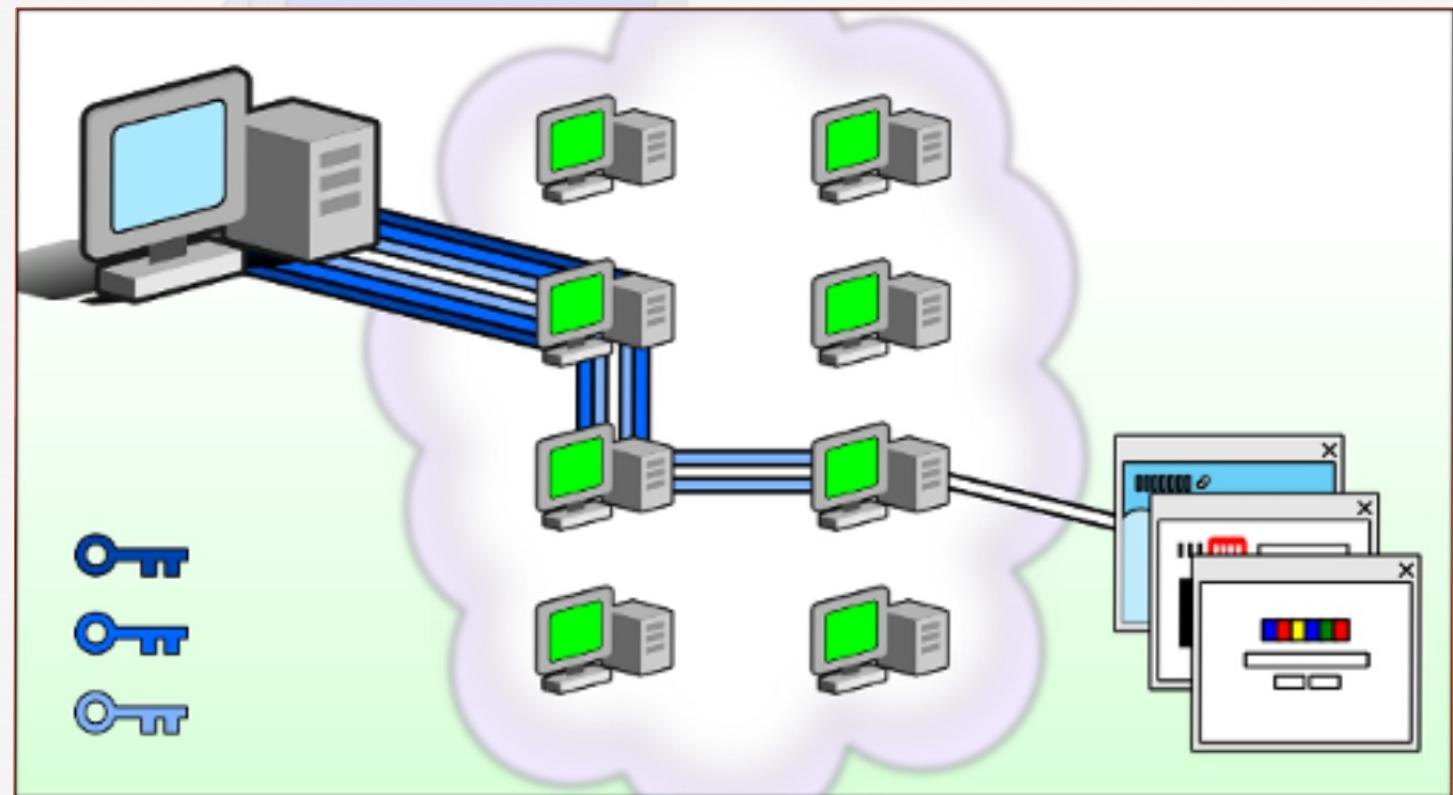
WHAT IS TOR?

- Free software and an open network
- Protects against network surveillance and censorship
- Run by a US non-profit and volunteers all over the world
- Stylized Tor not TOR
- Why do we need it?



WHAT IS TOR?

- Tor the network or “little-t tor”
- Presents a SOCKS proxy
- Relays operated across the world



About Tor



Tor Browser

Search or enter address



Search



Tor Browser
5.5.1



Welcome to Tor Browser

You are now free to browse the Internet anonymously.

[Test Tor Network Settings](#)



Search securely with [Disconnect.me](#).

What Next?

Tor is NOT all you need to browse anonymously! You may need to change some of your browsing habits to ensure your identity stays safe.

[Tips On Staying Anonymous »](#)

You Can Help!

There are many ways you can help make the Tor Network faster and stronger:

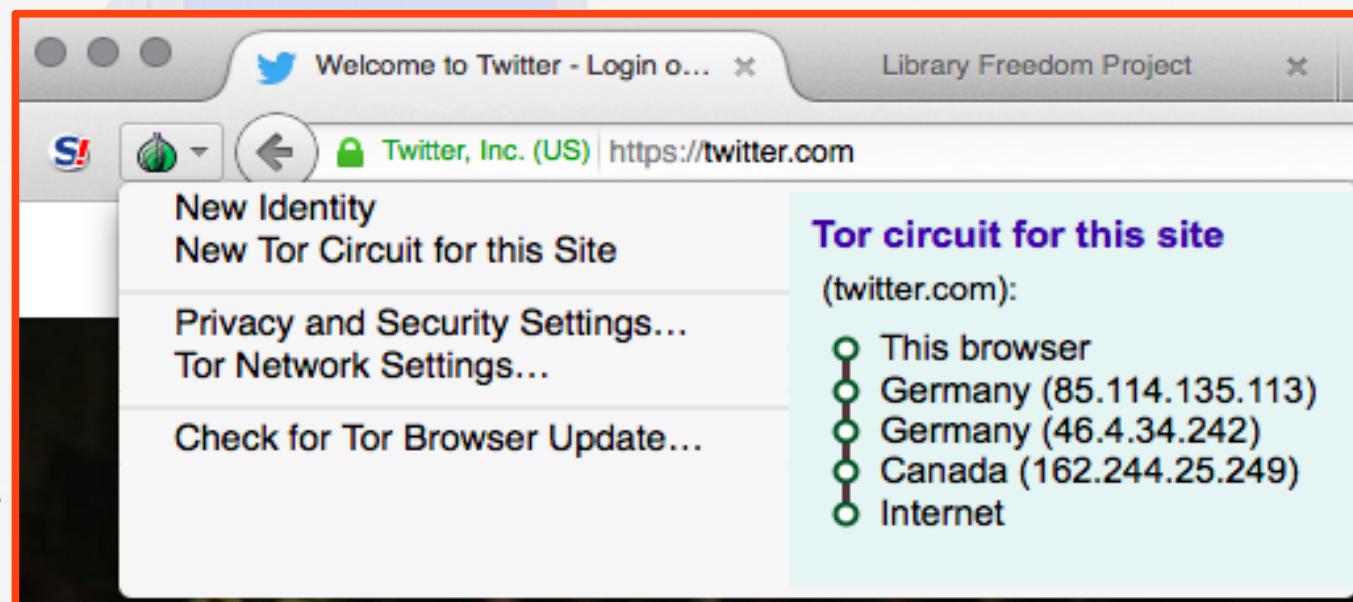
- [Run a Tor Relay Node »](#)
- [Volunteer Your Services »](#)
- [Make a Donation »](#)

The Tor Project is a US 501(c)(3) non-profit dedicated to the research, development, and education of online anonymity and privacy. [Learn more about The Tor Project »](#)

WHAT IS TOR BROWSER?

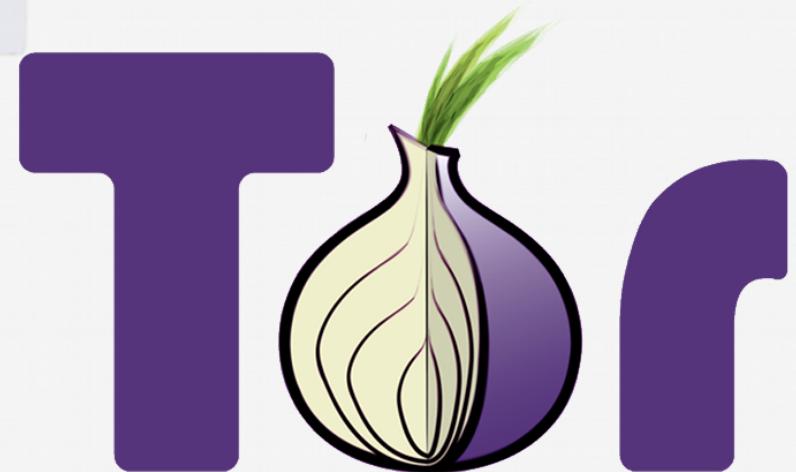
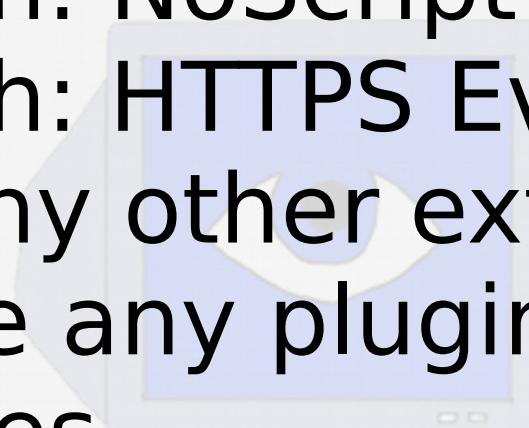


- Obscures your real IP
- Prevents network observation of your browsing
- Prevents cross-site correlation
- Blocks cookies, scripts
- Writes nothing to disk
- No browser history
- Blocks fingerprinting

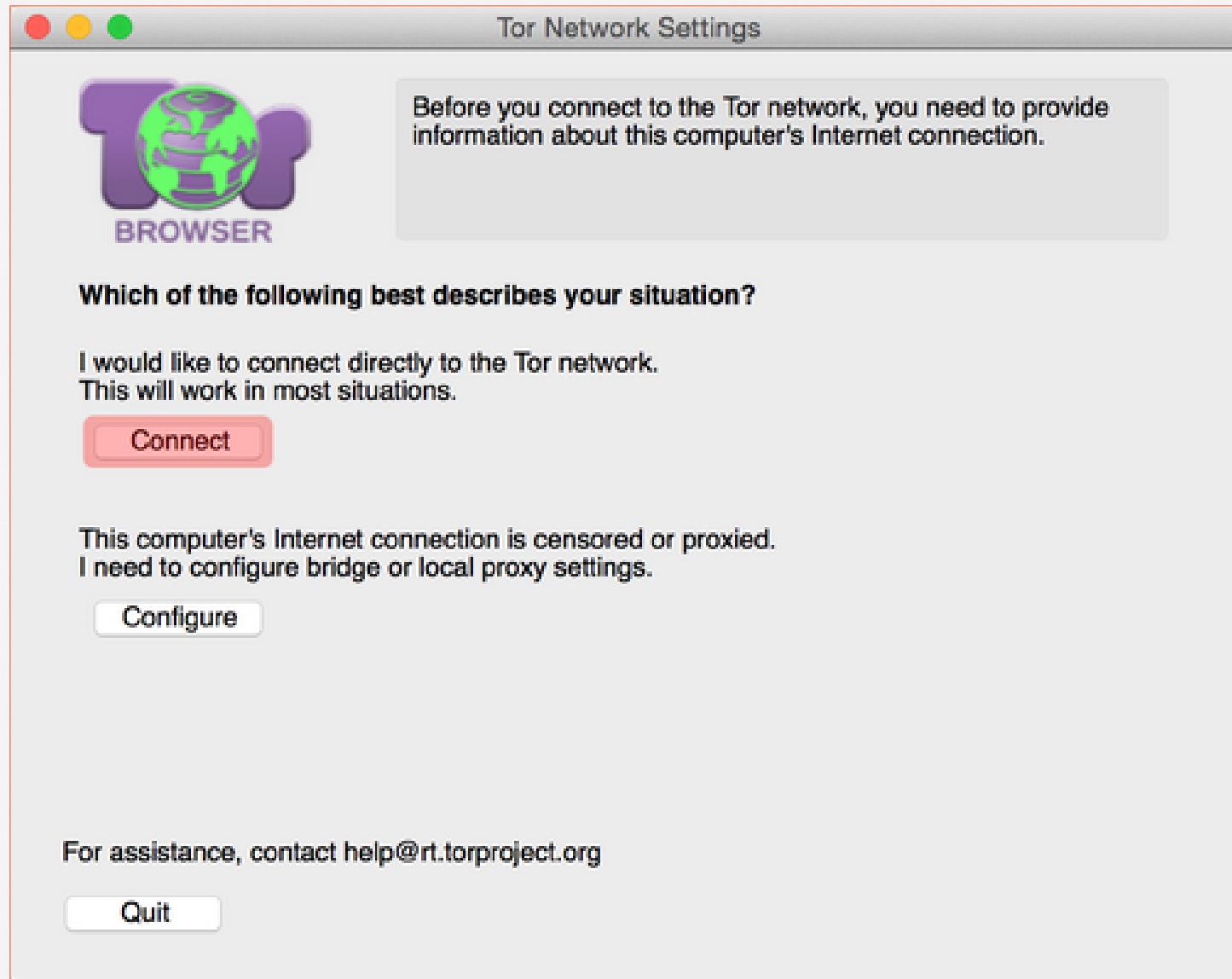


USING TOR BROWSER

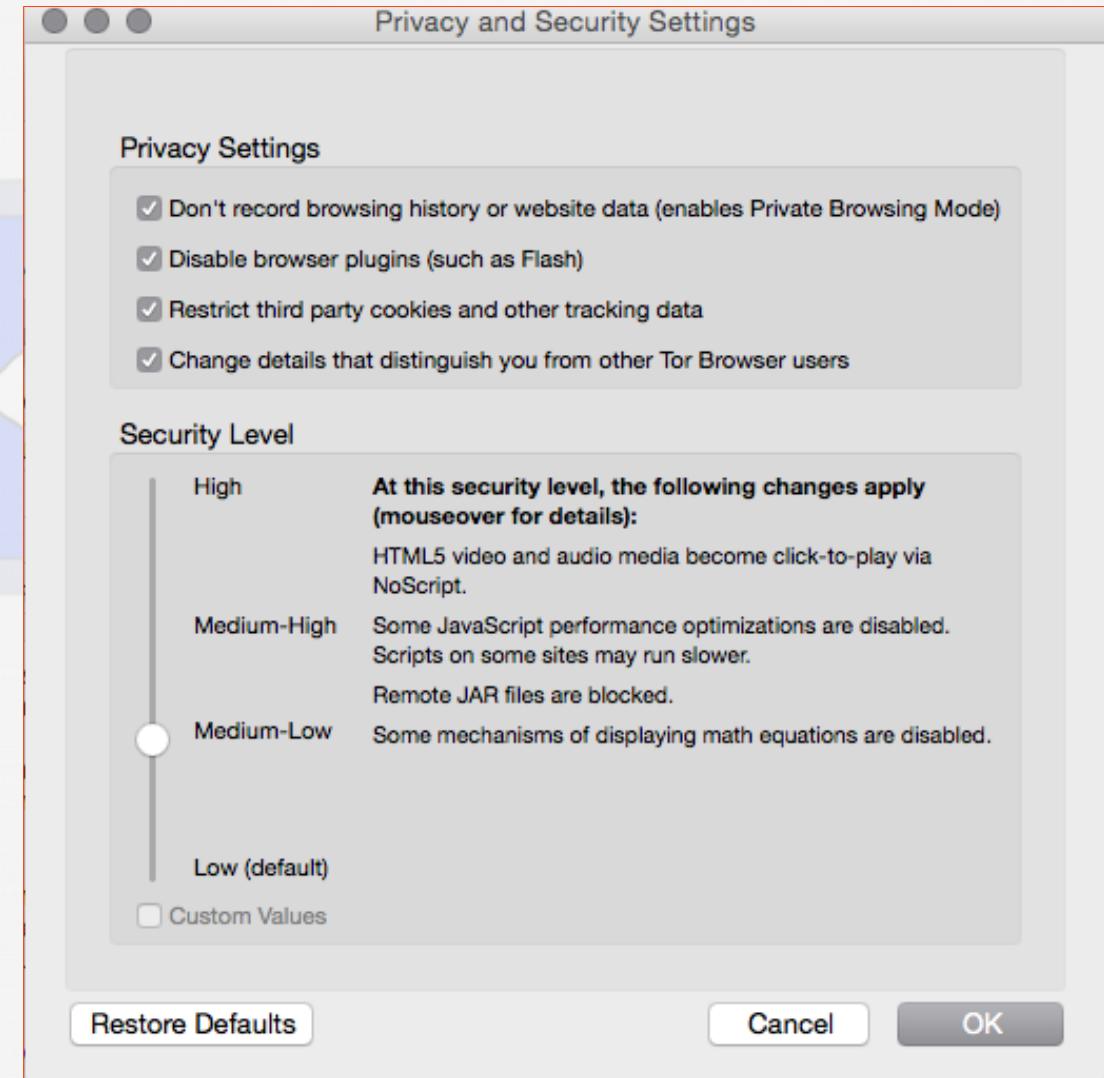
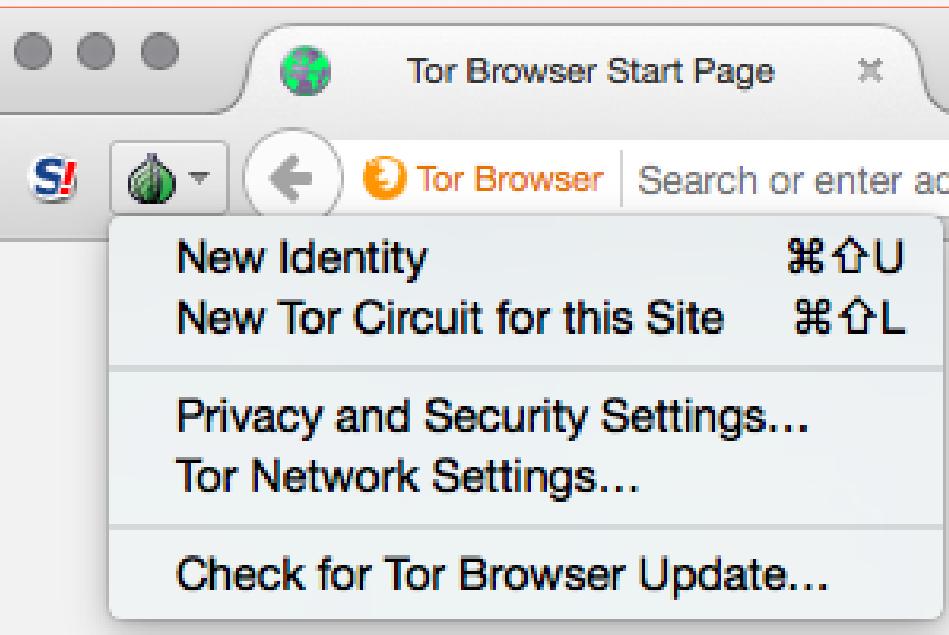
- Default search engine: DuckDuckGo
- Bundled with: NoScript
- Bundled with: HTTPS Everywhere
- Don't add any other extensions
- Don't enable any plugins (eg Flash)
- Best practices
- Library use cases



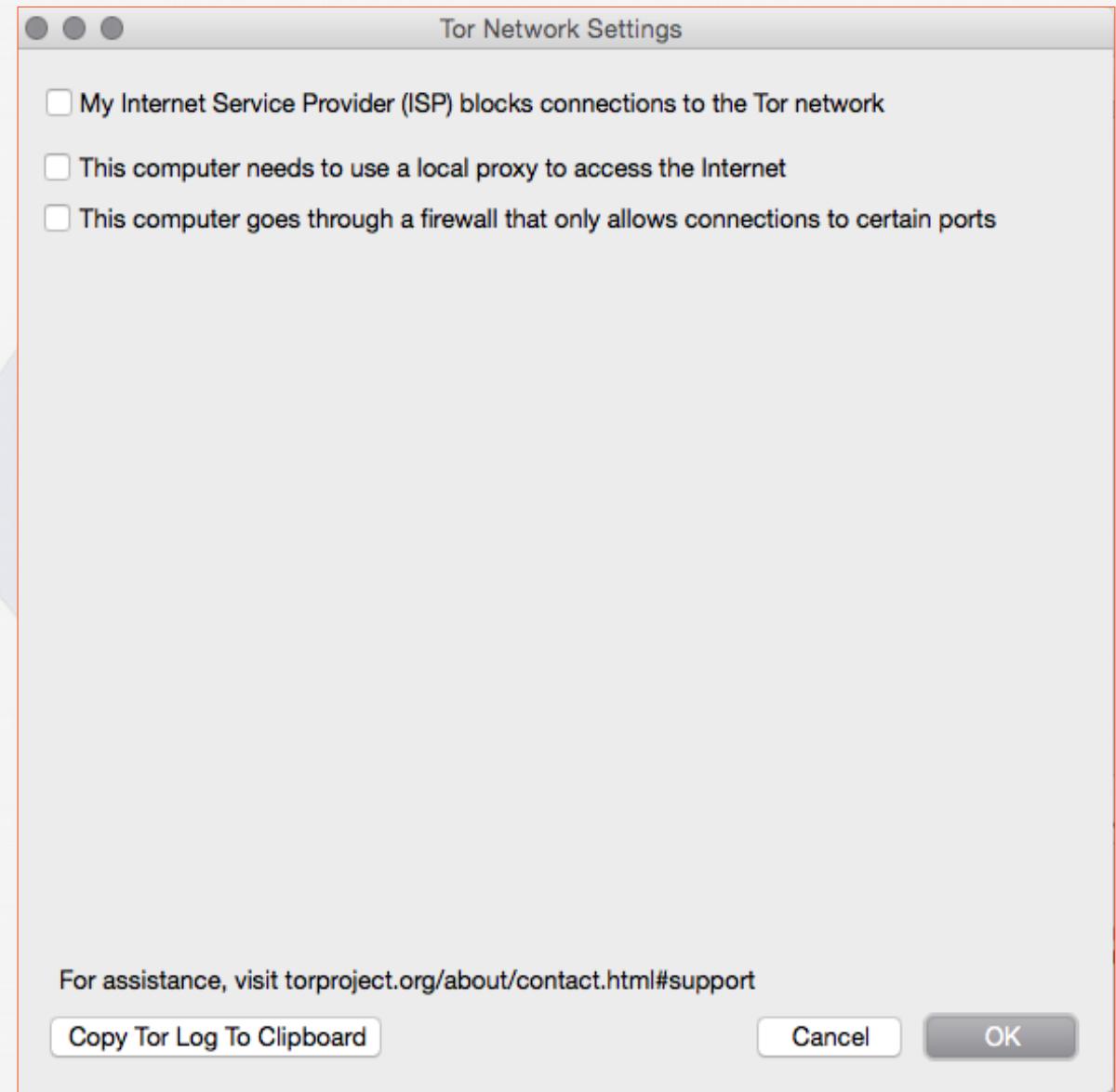
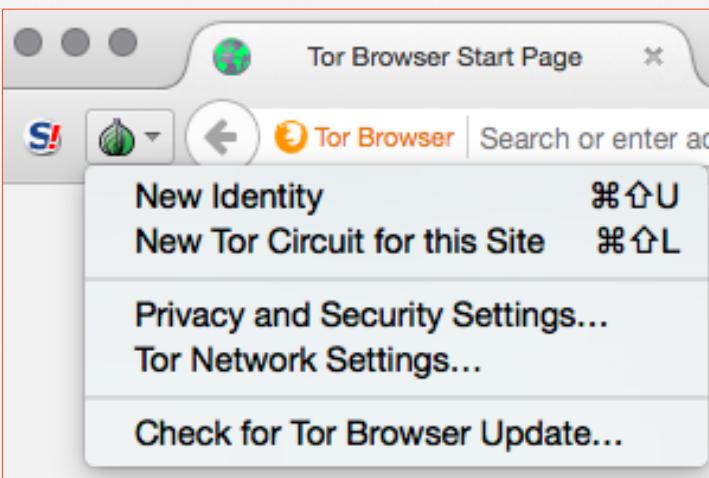
USING TOR BROWSER



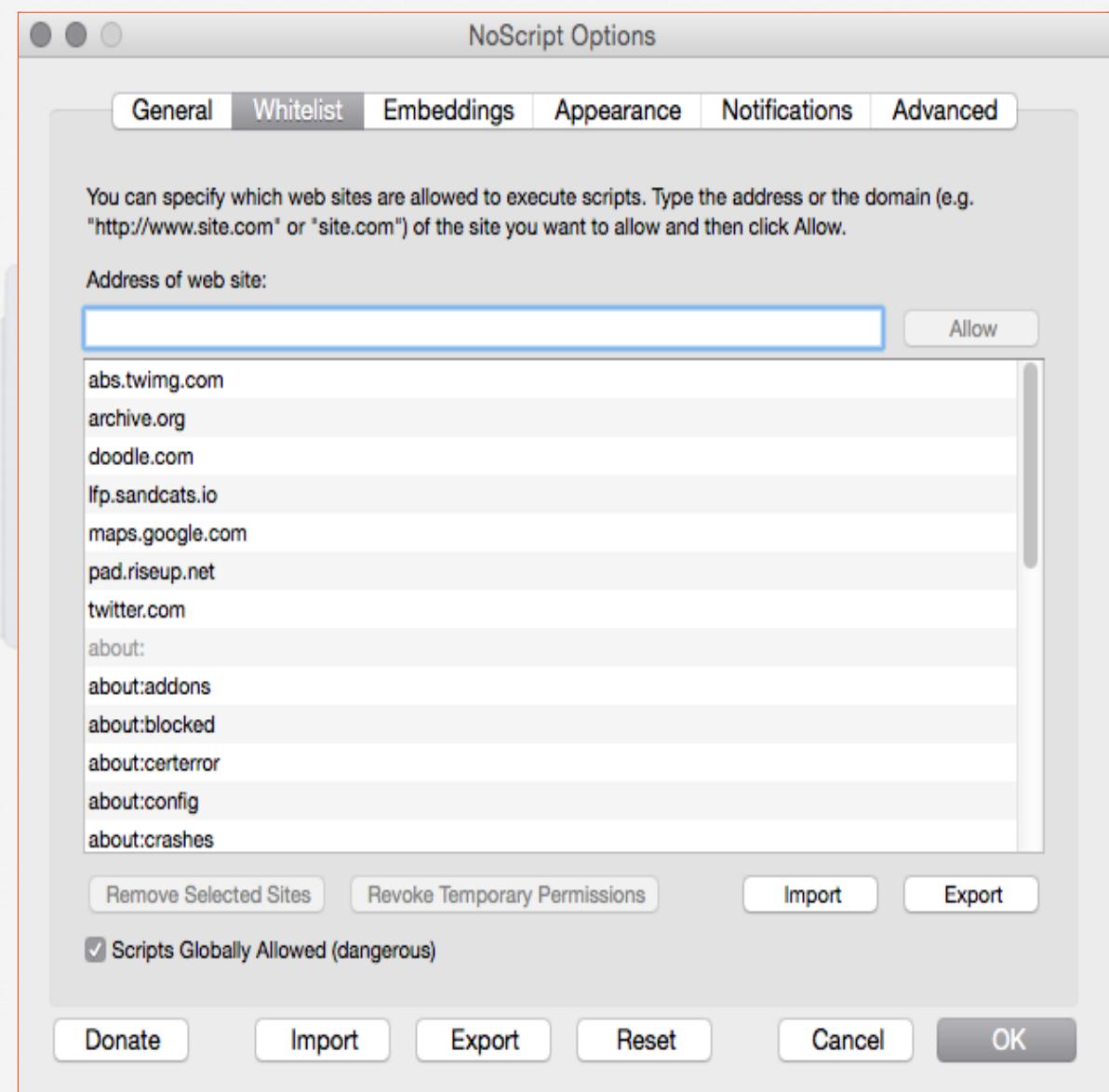
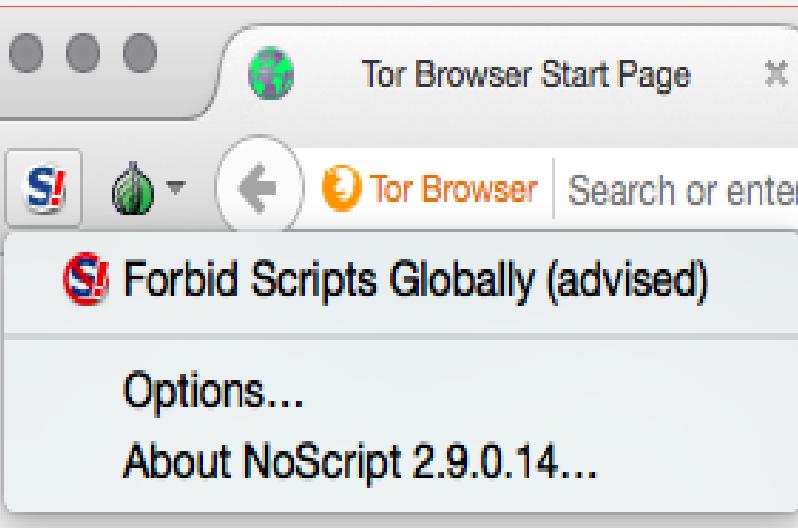
USING TOR BROWSER



USING TOR BROWSER



USING NOSCRIPT



UPDATING

The screenshot shows the Tor Browser interface. At the top, there's a toolbar with icons for New Identity, New Tor Circuit for this Site, Privacy and Security Settings..., and Tor Network Settings... A blue button labeled "Check for Tor Browser Update..." is also visible. A modal dialog box titled "Software Update" is displayed, stating "Update Available" and informing the user of a security and stability update for Tor Browser 4.5a5. It recommends applying the update soon. At the bottom of the dialog are "Ask Later" and "Update Tor Browser" buttons.

New Identity
New Tor Circuit for this Site

Privacy and Security Settings...
Tor Network Settings...

Check for Tor Browser Update...

Software Update

Update Available

A security and stability update for Tor Browser is available:
Tor Browser 4.5a5

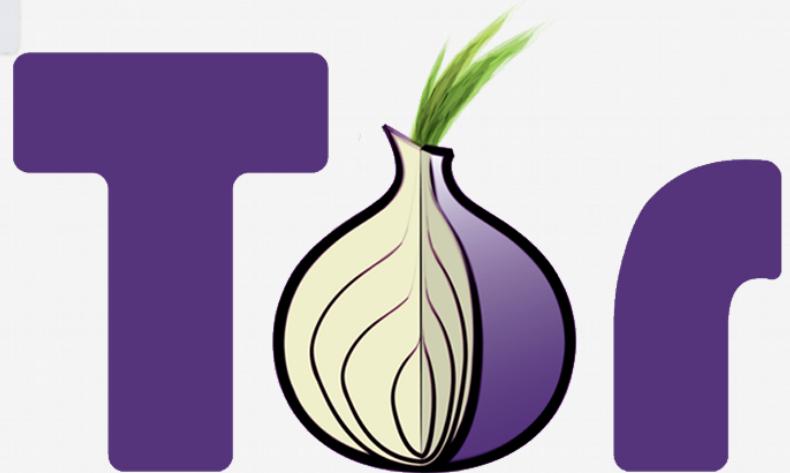
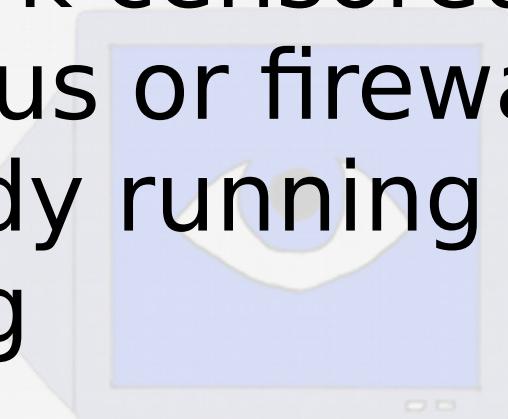
It is strongly recommended that you apply this update for Tor Browser as soon as possible.

[View more information about this update](#)

Ask Later Update Tor Browser

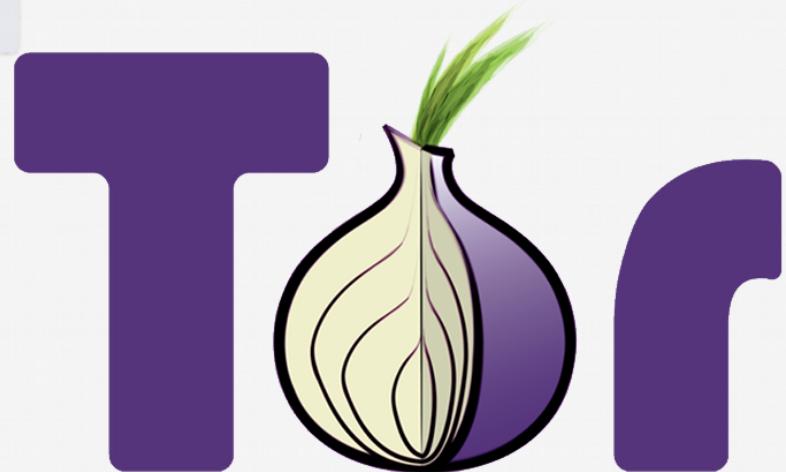
TROUBLESHOOTING

- Is your system clock correct?
- Is your network censored in some way?
- Is your antivirus or firewall blocking it?
- Are you already running the browser?
- Try reinstalling



TOR RELAYS IN LIBRARIES

- How does this help Tor?
- Bridges are low risk, high need
- Exits are higher risk, highest need
- You will need: one PC or VM with Linux Debian, dedicated IP address
- Fast relays: 10 Mbytes/s
- Won't affect patrons at all
- LFP resource packet
- We will set this up for you!



TOR RELAYS IN LIBRARIES



USABILITY ISSUES

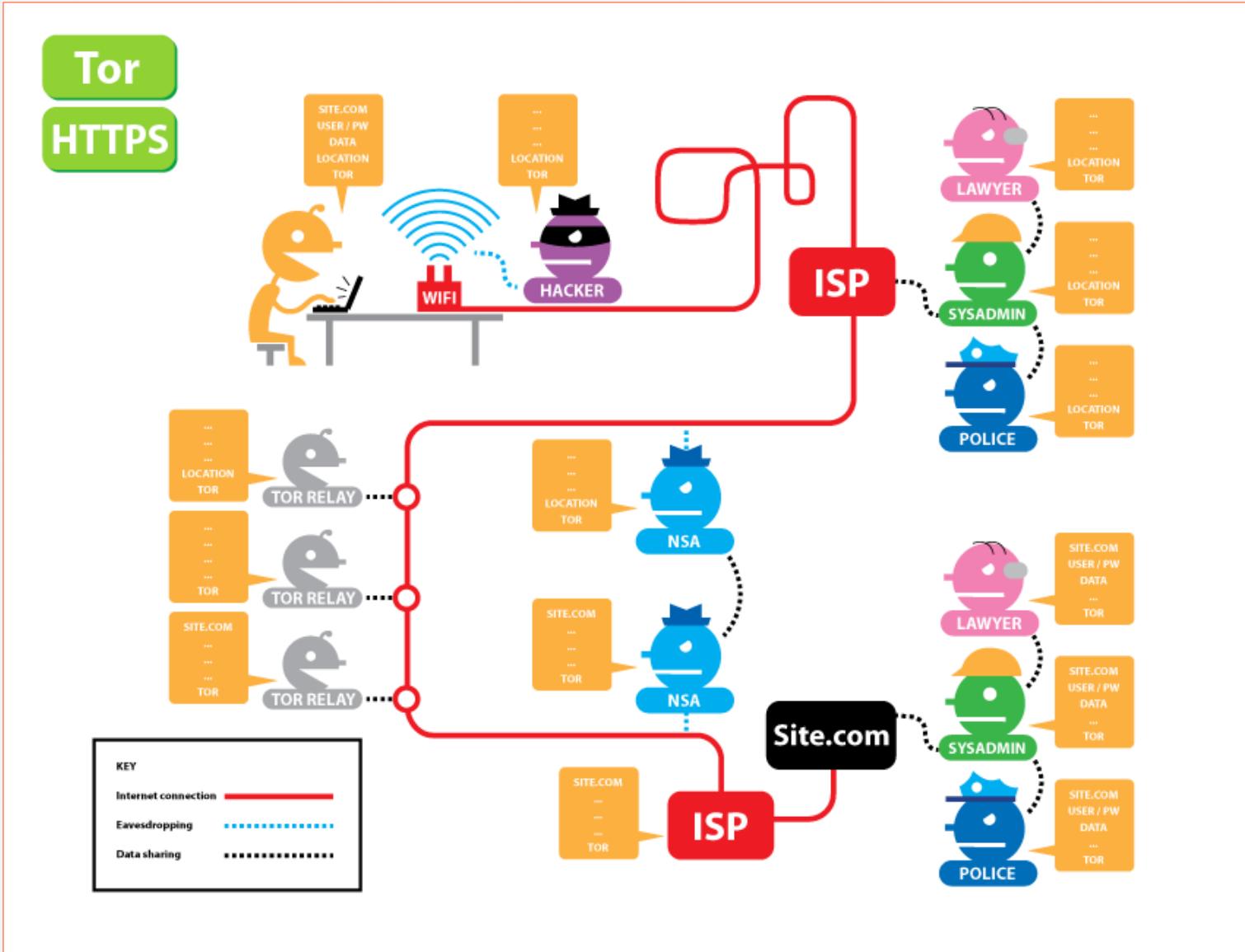
Select all images with **mountains**.

Or
Please
i.stack

to access

VERIFY

TOR AND HTTPS



ONION SERVICES



- Websites & services only accessible over Tor
- .onion special-use TLD
- Protection for user and server
- Server IP/location not traceable
- Can't be censored or operators identified
- Encrypted in Tor cloud: no need for HTTPS
- Solves some of the problems with DNS
- Library use cases

CIRCUMVENTING CENSORSHIP



- Gettor robot
- Bridges and pluggable transports
- LFP letter to convince IT/city to unblock Tor
- Tor will subvert library computer filters!
- Tor Browser will run from a flash drive

I WANT TO PROTECT
MY PRIVACY WHEN
I USE THE WEB!



TOR BROWSER IS FREE SOFTWARE
THAT HELPS PROTECT YOUR
PRIVACY WHEN YOU VISIT WEBSITES.

TOR BROWSER KEEPS
YOUR BROWSING ON
EACH WEBSITE
SEPARATE TO
PREVENT TRACKING



... WHICH KEEPS YOUR
DATA SAFE FROM
CORPORATE OR
GOVERNMENT
SURVEILLANCE.



TOR MAKES ALL OF ITS USERS
LOOK THE SAME AND CONFUSES
THE OBSERVER.



FREEDOM
OF SPEECH



BY USING TOR YOURSELF,
YOU CAN ALSO PROTECT
ACTIVISTS, JOURNALISTS,
AND BLOGGERS.

REALITY CENSORSHIP

WITH TOR YOU CAN BYPASS CENSORSHIP...



THIS LIBRARY HAS PARTNERED WITH
LIBRARY FREEDOM PROJECT TO SUPPORT TOR!
ASK A LIBRARIAN FOR MORE INFORMATION.

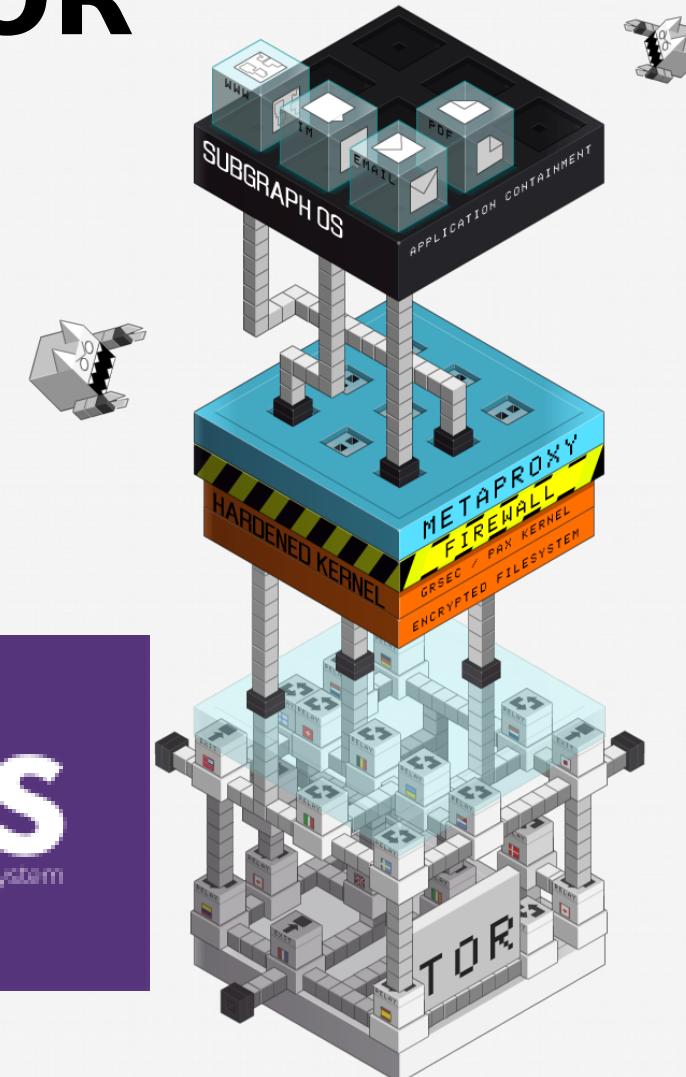
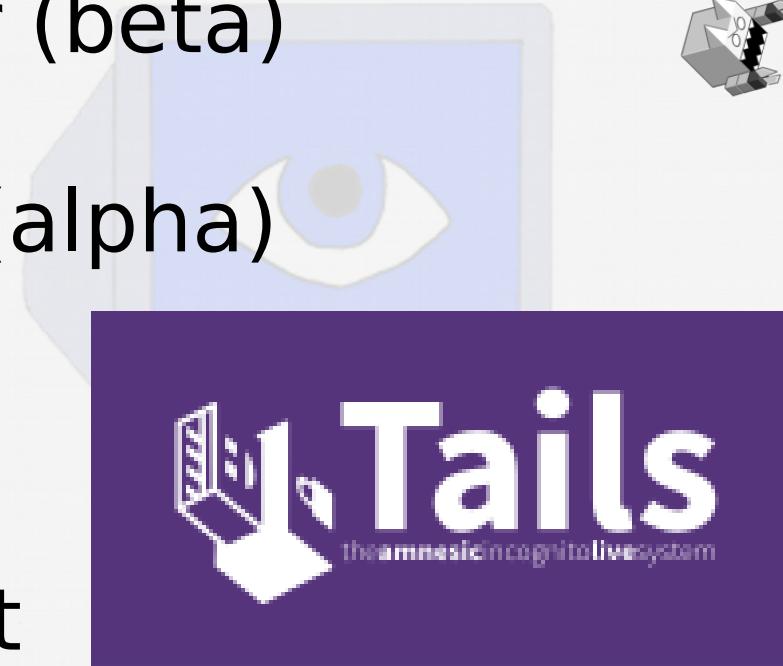
libraryfreedomproject.org

Use Tor in your
library and LFP
will send you
this lovely
poster!!



EVEN MORE TOR

- Orbot (Tor for Android)
- TorBirdy
- Tor Messenger (beta)
- ExoneraTor
- Subgraph OS (alpha)
- Tails OS
- Metrics
- OONI
- Social contract
- Support portal (coming soon)



Questions? Feedback? Need more help?

link list:

libraryfreedomproject.org/allabouttor

mailing list:

lists.riseup.net/www/subscribe/libraryfreedom



contact:

@flexlibris

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alison@torproject.org

alison@libraryfreedomproject.org