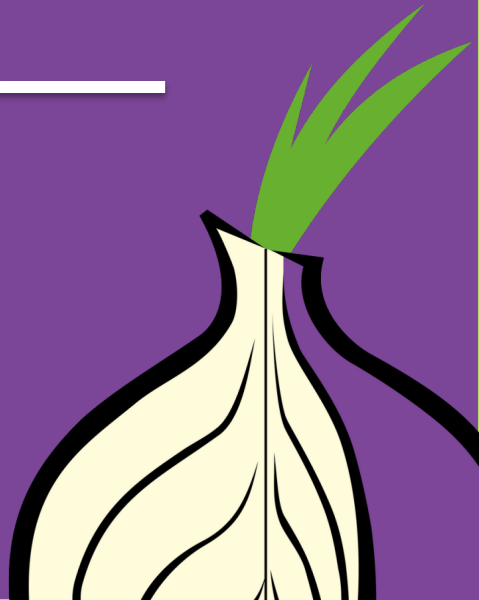
State of the Onion

The Tor Project

LibrePlanet
March 24, 2018



Let’s meet our panelists

- Isabela Bagueros, Tor UX Team Lead
- Nathan Freitas of The Guardian Project
- Nick Mathewson, Tor co-founder and Network Team Lead
- Steph Whited, Tor Communications Director

User Experience Team

Make Tor Usable for Everyone

Teams

- Applications
- Network
- Metrics
- Community
- OONI

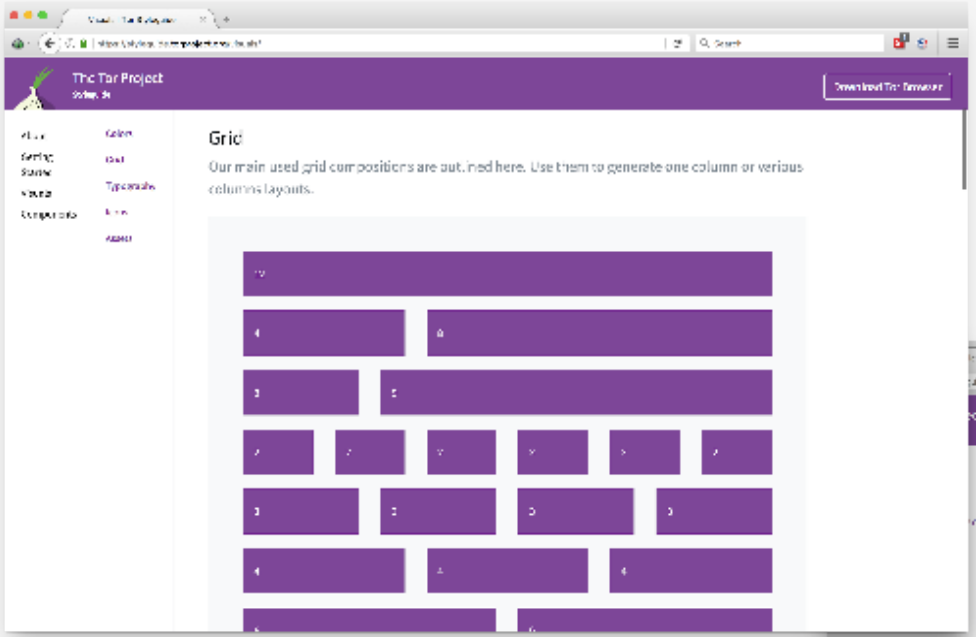
Users

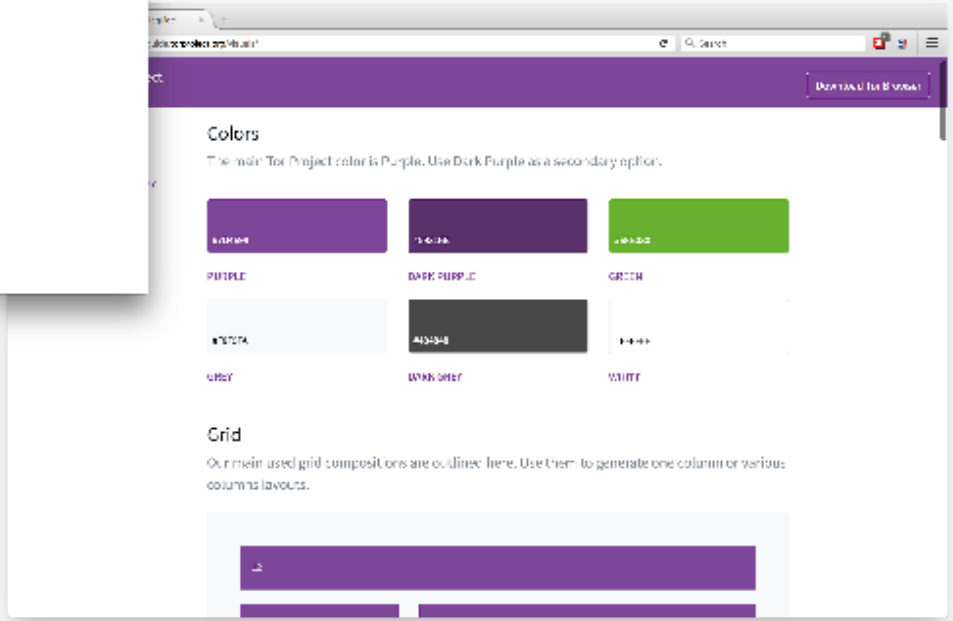
Users are YOU

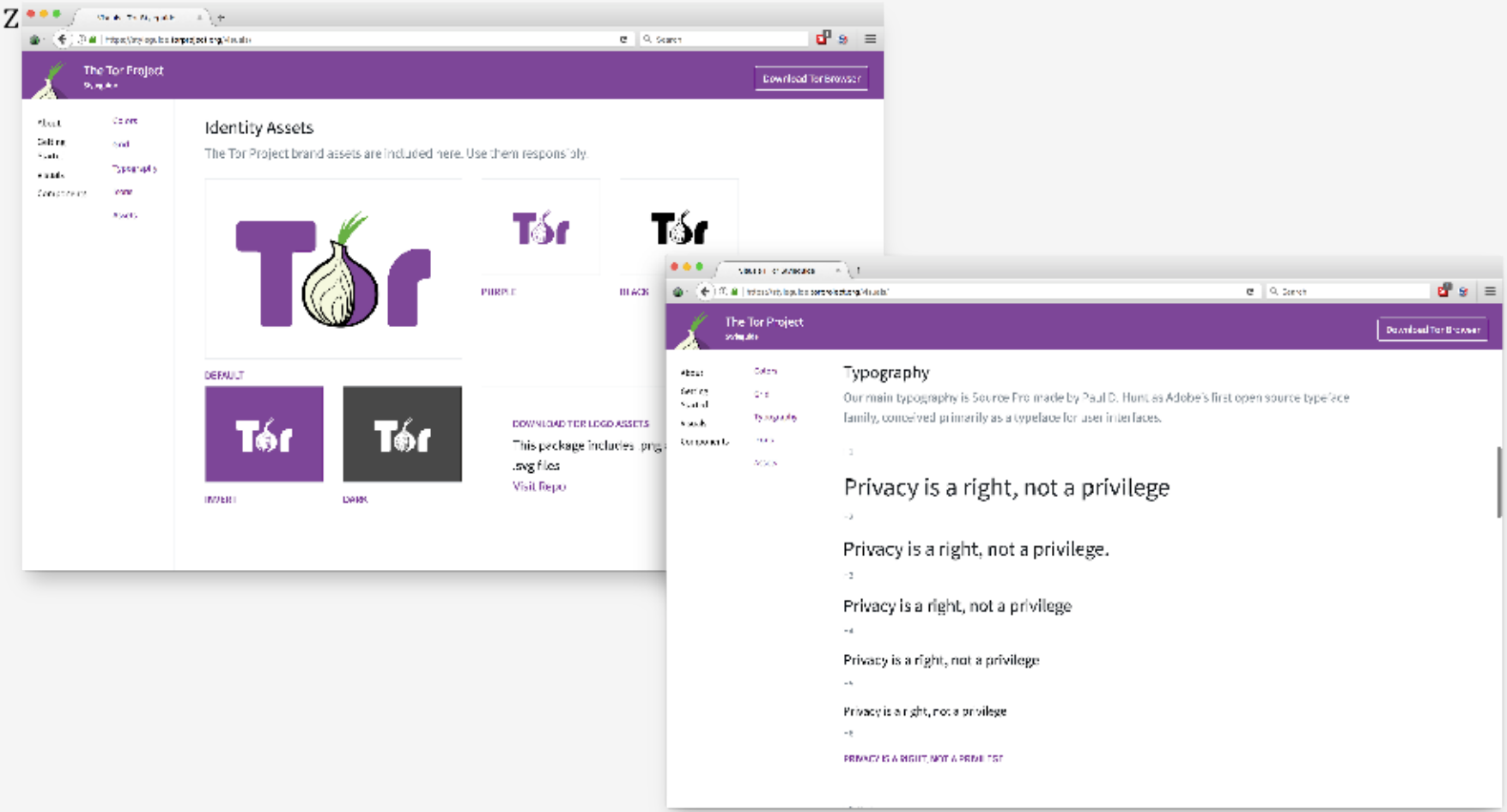
Our work is OPEN

#23411: Create Styleguide

styleguide.torproject.org
https://trac.torproject.org/projects/tor/ticket/23411


The Tor Project
Grid
Our main used grid compositions are outlined here. Use them to generate one column or various columns layouts.


Colors
PURPLE
DARK PURPLE
GREEN
GREY
DARK GREY
WHITE
Grid


The Tor Project
Download Tor Browser
Identity Assets
The Tor Project brand assets are included here. Use them responsibly.
DEFAULT
INVERT
DARK
DOWNLOAD TOR LOGO ASSETS
Visit Repo
Typography
Our main typography is Source Pro made by Paul D. Hunt as Adobe's first open source typeface family, conceived primarily as a typeface for user interfaces.
Privacy is a right, not a privilege
Privacy is a right, not a privilege.
Privacy is a right, not a privilege
Privacy is a right, not a privilege
Privacy is a right, not a privilege

Coming Next

New portals

- torproject.org (homepage)
- support.torproject.org
- dev.torproject.org
- community.torproject.org

#24309: Improve how circuits are displayed to the user

https://trac.torproject.org/projects/tor/ticket/24309

The New York Times - Brea... | The New York Times - Brea...

https://www.nytimes.com

Search

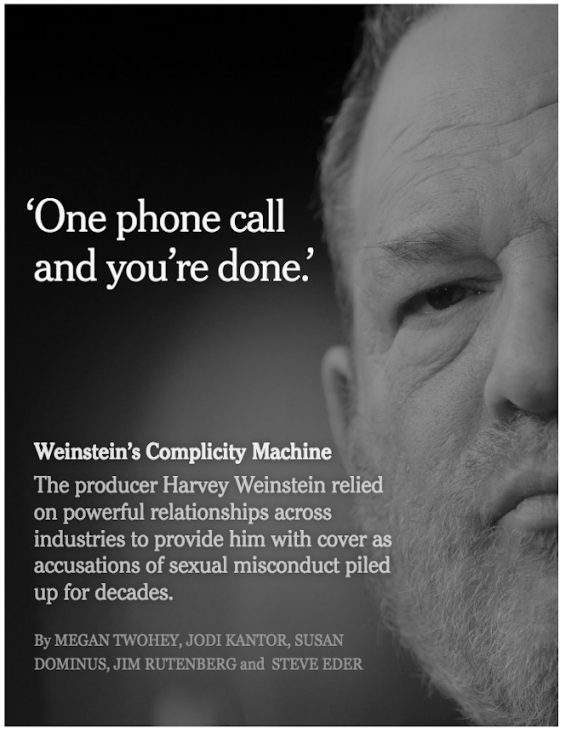
Tor Browser has found a secure version of this site. Do you want to visit the .onion? Visit .onion Learn More

Trump's Move on Jerusalem Fuels Alarm Across Mideast

By MARK LANDLER and DAVID M. HALBFINGER

- President Trump plans to name Jerusalem as the capital of Israel on Wednesday, upending nearly seven decades of American foreign policy.
- Arab leaders warned Mr. Trump that it would disrupt the Mideast peace process, perhaps fatally, and could unleash a new wave of violence across the region.

1074 Comments



Weinstein's Complicity Machine

The producer Harvey Weinstein relied on powerful relationships across industries to provide him with cover as accusations of sexual misconduct piled up for decades.

By MEGAN TWOHEY, JODI KANTOR, SUSAN DOMINUS, JIM RUTENBERG and STEVE EDER

Opinion

Does Trump Want to Negotiate Mideast Peace?

By THE EDITORIAL BOARD

Moving the American Embassy to Jerusalem is almost certain to anger the Palestinians and most Arab nations.

- **Of Course Jerusalem Is Israel's Capital**
- **Editorial: Going National With Concealed Guns**
- **Bruni: Donald Trump Could Really Use a Friend**
- **Douthat: Living With the Republican Tax Plan**

Is Media Driving Americans Apart?

By LEVI BOXELL, MATTHEW GENTZKOW and JESSE M. SHAPIRO

Social media gets all the attention for polarization, but TV is doing more than its share.

- **Friedman: Obsession With Iran Is Driving the Mideast and the U.S. Crazy**
- **Why the Rohingya Can't Yet Return to Myanmar**
- **The Price of War With North Korea**
- **I Use a Wheelchair. And Yes, I'm Your Doctor.**

TIMES INSIDER »

A Video Journalist Wrestles With the Candor of an Egyptian Woman

THE CROSSWORD »

Play Today's Puzzle

2h **Germany is seeking a stronger role abroad in the age of Trump.** Its acting foreign minister called for a new willingness to clash with

Coming Next

All this work/experience will also exist on Tor Browser for Android

More experience changes:

Security settings configuration experience

Continue to improve onion services experience

User Testing Program - identify new problems + test our solutions (hypothesis)

ux@lists.torproject.org

isabela@torproject.org

Tor on Mobile

Tor on Mobile

- Orbot & Orfox
  - Adoption
  - Features
  - Evolution
- Haven

THE GUARDIAN PROJECT
https://guardianproject.info

Orbot
STOP
NOTICE: Tor has successfully opened a circuit. Looks...
VPN Mode
Global (Auto)
Upload 0kbps / 0KB
Download 0kbps / 0KB
Trouble connecting? Use Bridges
Tor-Enabled Apps
THE GUARDIAN PROJECT
https://www.guardianproject.info
TorProject.org

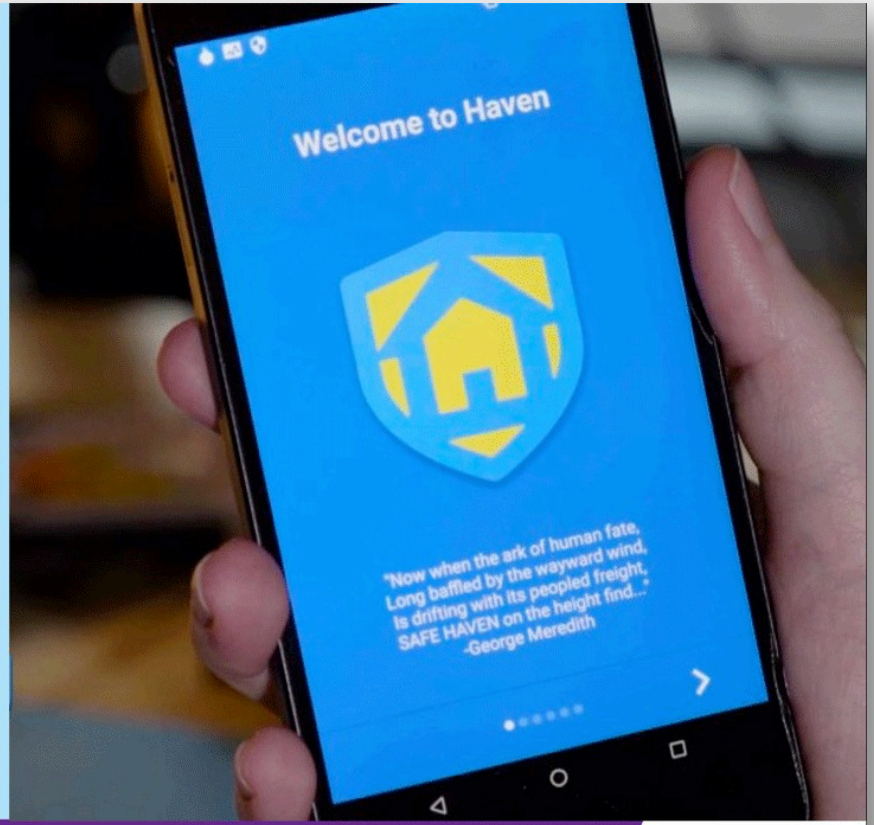
Orfox

Tor Browser for Android

Tor
Browser

THE GUARDIAN PROJECT
https://guardianproject.info

STARS	4,251
FORKS	601
WATCHERS	273
CONTRIBUTORS	37
LICENSE	GPL 3.0



OPEN SOURCE ROOKIE OF THE YEAR 2018
BLACKDUCK BY SYNOPSYS

BLACKDUCK BY SYNOPSYS

Tor on Mobile

- **Get involved**
  - IRC channel: #tor-mobile
  - Have mobile skills?

The Network Team

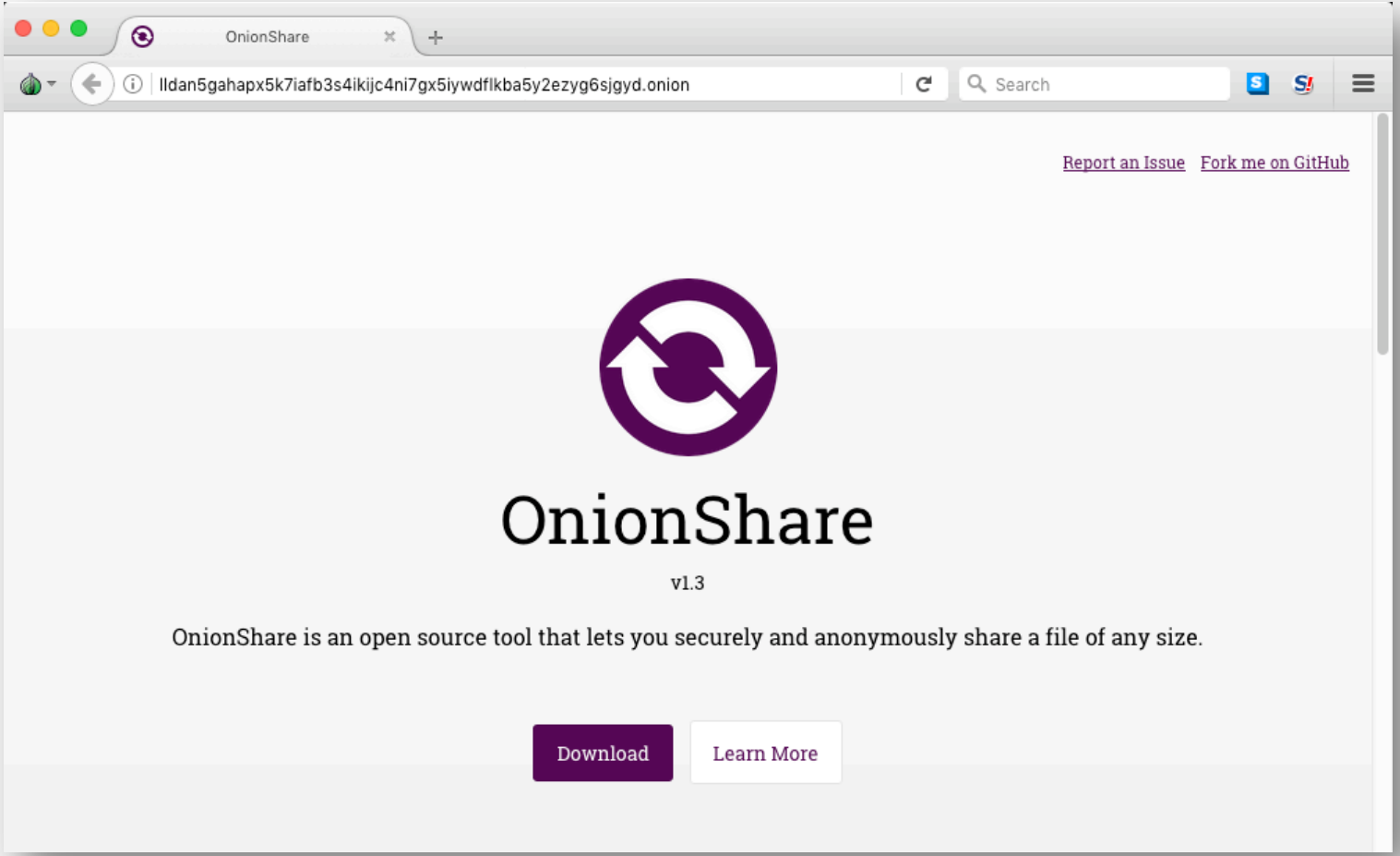
The Network Team

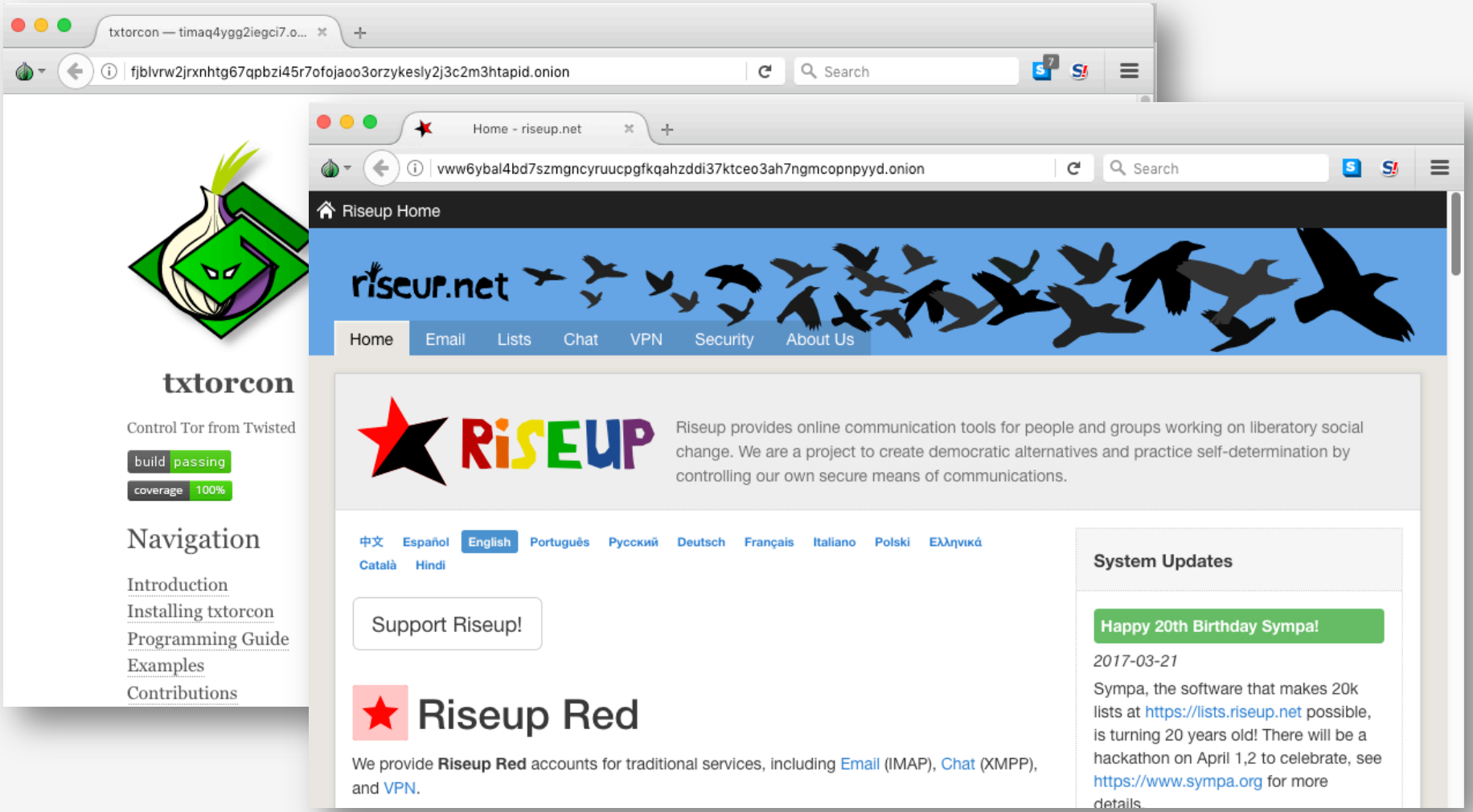
What's going on inside the program "Tor"

- Recent work
- Coming developments

Massive upgrade to onion services

- Much better obsolete crypto
- No more enumeration attacks (the crypto is tricky; ask me how)
- Upgradable for the future
- Longer names


OnionShare
lldan5gahapx5k7iafb3s4ikijc4ni7gx5iywdflkba5y2ezyg6sjgyd.onion
Search
Report an Issue
Fork me on GitHub
OnionShare
v1.3
OnionShare is an open source tool that lets you securely and anonymously share a file of any size.
Download
Learn More


txtorcon — timaq4ygg2iegci7.o...
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Search
txtorcon
Control Tor from Twisted
build passing
coverage 100%
Navigation
Introduction
Installing txtorcon
Programming Guide
Examples
Contributions
Home - riseup.net
vww6ybal4bd7szmgncyruucpgfkqahzddi37ktceo3ah7ngmcopnpyyd.onion
Search
Riseup Home
riseup.net
Home
Email
Lists
Chat
VPN
Security
About Us
RISEUP
Riseup provides online communication tools for people and groups working on liberatory social change. We are a project to create democratic alternatives and practice self-determination by controlling our own secure means of communications.
中文 Español English Português Русский Deutsch Français Italiano Polski Ελληνικά Català Hindi
Support Riseup!
Riseup Red
We provide Riseup Red accounts for traditional services, including Email (IMAP), Chat (XMPP), and VPN.
System Updates
Happy 20th Birthday Sympa!
2017-03-21
Sympa, the software that makes 20k lists at https://lists.riseup.net possible, is turning 20 years old! There will be a hackathon on April 1,2 to celebrate, see https://www.sympa.org for more details

Better denial-of-service resistance

- We've been working against an ongoing DoS attack since December or so
- Relays now support limiting requests from same/similar IPs
- We're much more careful with recovering memory

Lower bandwidth overhead

- Directory information now transmitted via diff...
- ... and compressed better

Upcoming: Better mobile performance

- Adventures with the mainloop
- Learning to sleep

Upcoming: Postquantum crypto support

- Probably lattice-based
- Encryption-focused; signatures can wait

Upcoming: Rust

- Tor is now optionally in Rust
- More optional Rust features coming
- Rust will be required eventually
- Why?

You can help!

- Guide in tor git repository: doc/HACKING/ GettingStarted.md
- We are friendly and glad to help!

Community and Communications

Community and Communications

- More frequent, regular communications
- New outreach initiatives, resources, and opportunities to connect
- New campaigns
- What’s next

The Tor Project (@torproje...

Twitter, Inc. (US) | https://twitter.com/torproject

Search

Home About

Search Twitter

Have an account? Log in

Tweets 5,783 | Following 984 | Followers 247K | Likes 5,352 | Lists 1

Follow

The Tor Project

@torproject

We advance human rights and defend your privacy online through free software and open networks.

Everywhere

torproject.org/download

Joined December 2008

762 Photos and videos

Tweets | Tweets & replies | Media

Pinned Tweet

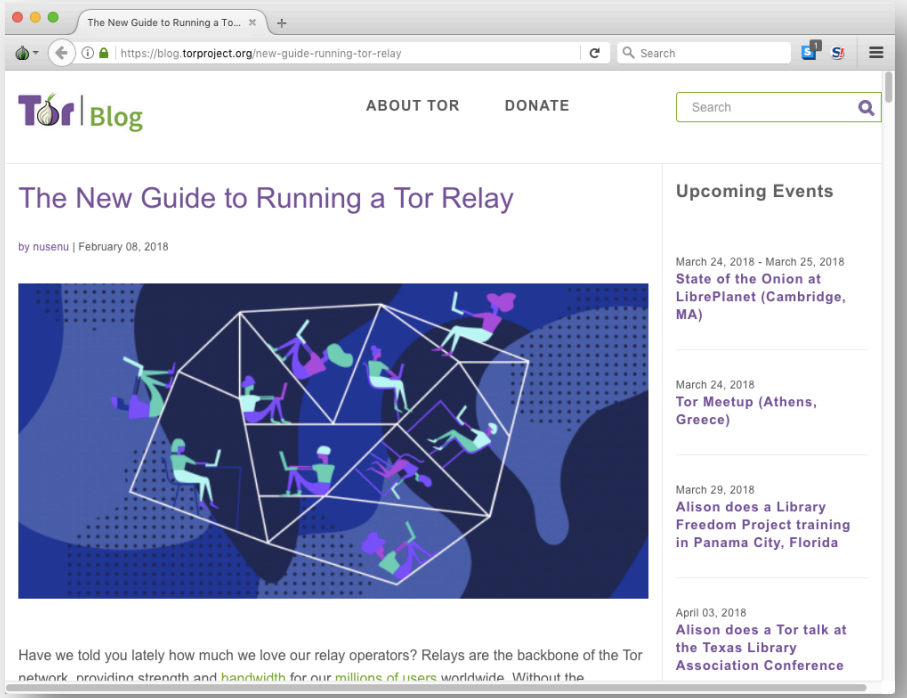
The Tor Project @torproject · Mar 13

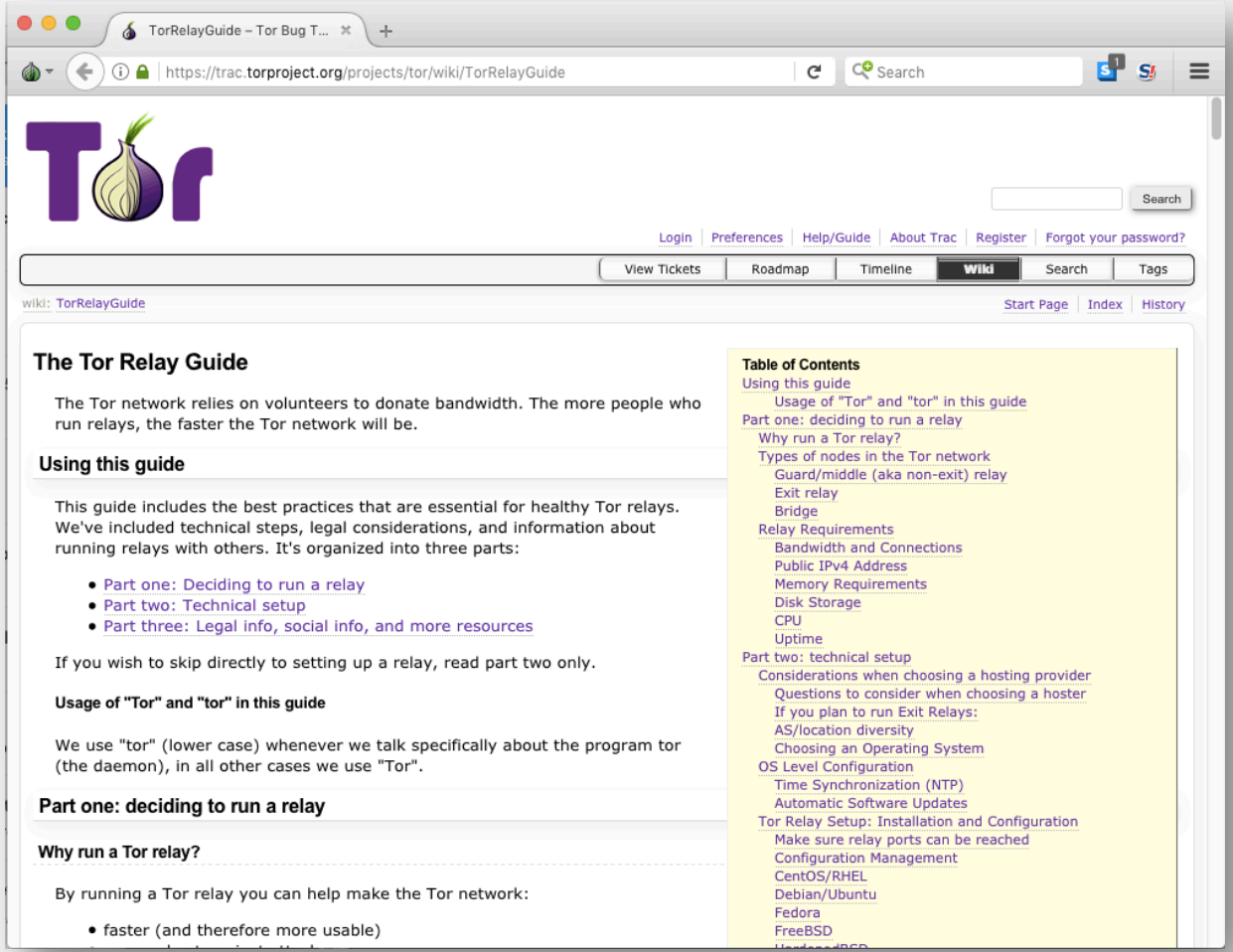
We're taking part in the #DuckDuckGoPrivacyChallenge to support the development of the world's strongest tool for privacy and freedom online, and we need your help to win!

crowdrise.com/tor-project

New Resource: Tor Relay Guide

- Comprehensive
- Community driven




TorRelayGuide – Tor Bug T...
https://trac.torproject.org/projects/tor/wiki/TorRelayGuide
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Login | Preferences | Help/Guide | About Trac | Register | Forgot your password?
View Tickets | Roadmap | Timeline | Wiki | Search | Tags
wiki: TorRelayGuide
Start Page | Index | History
The Tor Relay Guide
The Tor network relies on volunteers to donate bandwidth. The more people who run relays, the faster the Tor network will be.
Using this guide
This guide includes the best practices that are essential for healthy Tor relays. We've included technical steps, legal considerations, and information about running relays with others. It's organized into three parts:
Part one: Deciding to run a relay
Part two: Technical setup
Part three: Legal info, social info, and more resources
If you wish to skip directly to setting up a relay, read part two only.
Usage of "Tor" and "tor" in this guide
We use "tor" (lower case) whenever we talk specifically about the program tor (the daemon), in all other cases we use "Tor".
Part one: deciding to run a relay
Why run a Tor relay?
By running a Tor relay you can help make the Tor network:
faster (and therefore more usable)
Table of Contents
Using this guide
Usage of "Tor" and "tor" in this guide
Part one: deciding to run a relay
Why run a Tor relay?
Types of nodes in the Tor network
Guard/middle (aka non-exit) relay
Exit relay
Bridge
Relay Requirements
Bandwidth and Connections
Public IPv4 Address
Memory Requirements
Disk Storage
CPU
Uptime
Part two: technical setup
Considerations when choosing a hosting provider
Questions to consider when choosing a hoster
If you plan to run Exit Relays:
AS/location diversity
Choosing an Operating System
OS Level Configuration
Time Synchronization (NTP)
Automatic Software Updates
Tor Relay Setup: Installation and Configuration
Make sure relay ports can be reached
Configuration Management
CentOS/RHEL
Debian/Ubuntu
Fedora
FreeBSD

Come pick up a flyer from our table!

Run a Relay

If you have basic command-line experience, you can become one of the thousands of relay operators donating bandwidth to the Tor network.

WHAT YOU NEED

- Minimum of 1GB RAM, 2 GHz CPU, & 500 MB disk
- Ability to upload at least 10Mb/s
- Ability to transfer at least 1 TB/month
- VPS or dedicated server
- IPv4

Get started with the Tor Relay Guide:

torproject.org/relay-guide

New Opportunity: Mozilla Fellowship

Opportunity: Become a Tor Relay Advocate!

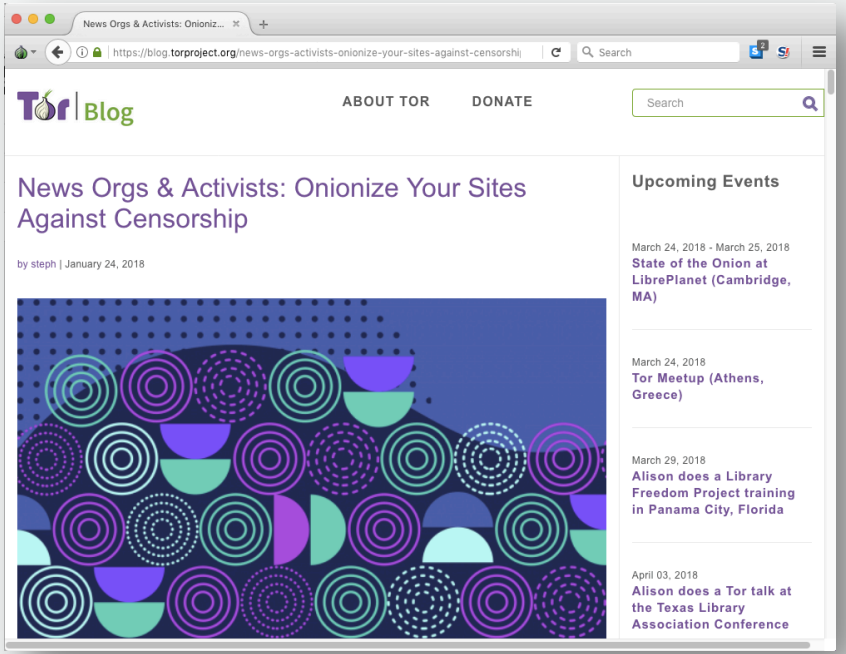
We're hosting a Mozilla Fellow to:

- Support our current relay operators
- Encourage tech-savvy people to run relays
- Make the Tor network stronger and more decentralized
- You'll have a bird's-eye view of the relay community, understanding the technical, social, and legal aspects of being a relay operator.

Learn more at our blog!

New Campaign: Onionize the Web

- Demystify onion services
- Share stories of how onion services are securing the web
- Encourage others to onionize their sites



Italian Anti-Corruption Authorit...

https://blog.torproject.org/italian-anti-corruption-authority-anac-adopts-onion-service

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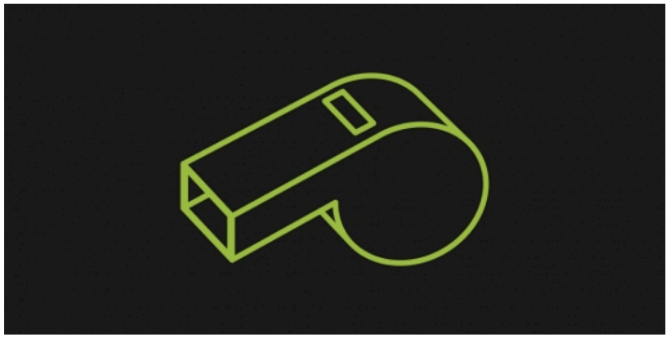
Italian Anti-Corruption Authority (ANAC) Adopts Onion Services

by steph | February 13, 2018



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Alison doc
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in Panama

April 03, 2018
Alison doc
the Texas
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Volunteer Spotlight: Alec Helps...

https://blog.torproject.org/volunteer-spotlight-alec-helps-companies-activate-onion-s

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ABOUT TOR DONATE

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Volunteer Spotlight: Alec Helps Companies Activate Onion Services

by t0mmy | January 18, 2018

Tor is a labor of love built by a small group of committed individuals, but we're lucky to have the support of a dedicated volunteer base who help us make Tor the strongest anonymity tool out there.

Upcoming Events

March 24, 2018 - March 25, 2018
State of the Onion at LibrePlanet (Cambridge, MA)

March 24, 2018
Tor Meetup (Athens, Greece)

March 29, 2018
Alison does a Library Freedom Project training in Panama City, Florida

April 03, 2018
Alison does a Tor talk at the Texas Library Association Conference

What's next

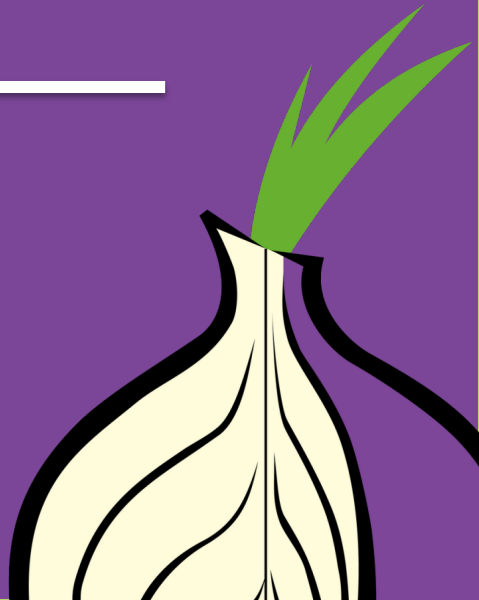
- More examples of people using onions for good
- More resources and opportunities for you to get involved and help others use and talk about Tor
- More blog posts from community authors
- Trying out Mastodon

What you can do

- Stay connected with Tor on social media and subscribe to our newsletter: newsletter.torproject.org
- Hold a meetup
- Run a relay, encourage others to run relays, **come pick up a flyer at our table!**

IRC: #tor-project

social: @torproject

It’s time for questions!

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