

# Scripps IIJ

Andrew Lewman  
andrew@torproject.org

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# The Tor Project, Inc.

501(c)(3) non-profit organization dedicated to the research and development of technologies for online anonymity and privacy



# Anonymous communication

- People have to hide in a crowd of other people (“anonymity loves company”)
- The goal of the system is to make all users look as similar as possible, to give a bigger crowd
- Hide who is communicating with whom
- Layered encryption and random delays hide correlation between input traffic and output traffic

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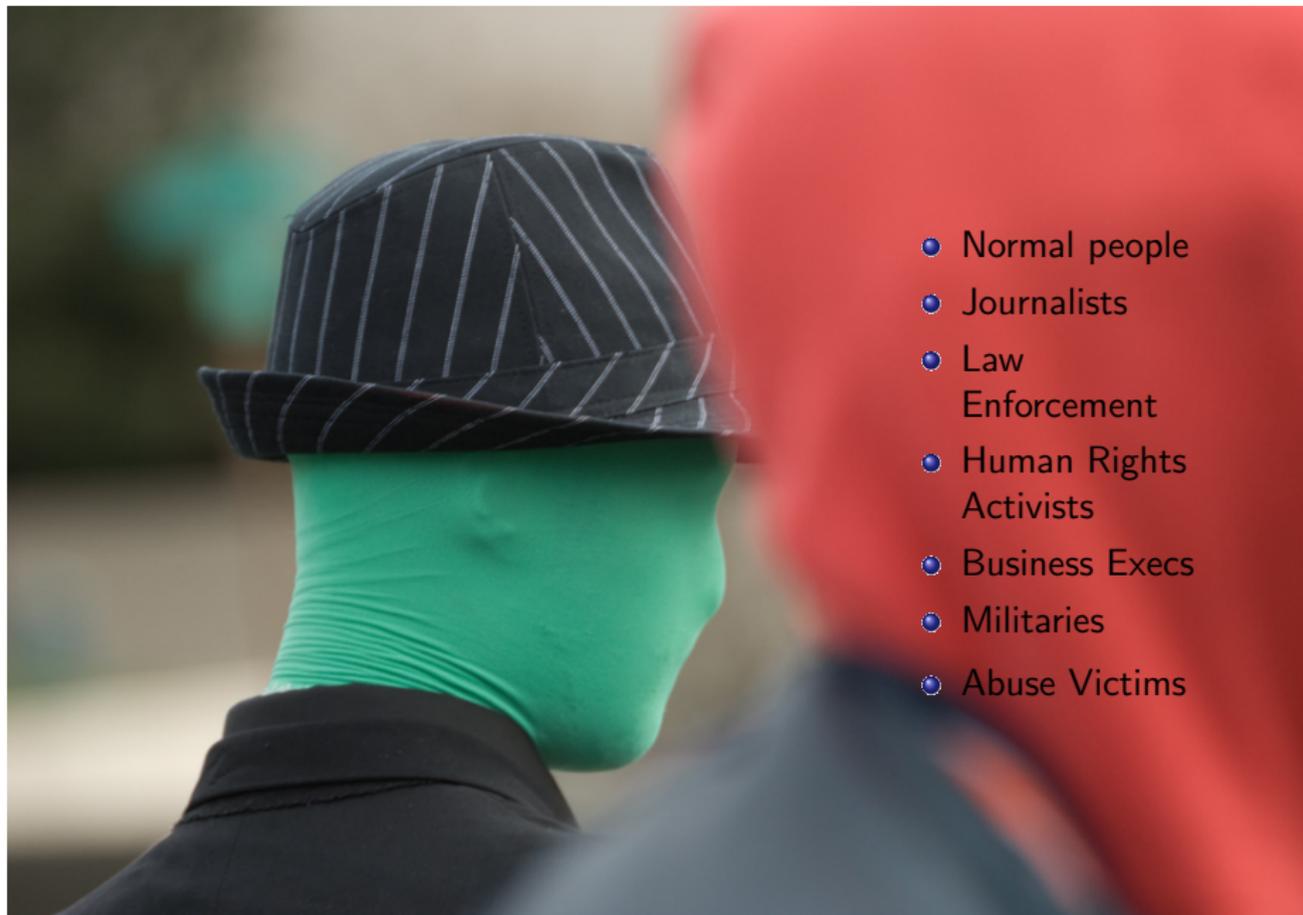
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Drexel, Univ of Waterloo, Georgia Tech, Princeton, Boston University, University College London, Univ of Minnesota, National Science Foundation, Naval Research Labs, Cambridge UK, Bamberg Germany, MIT...
- increasingly diverse toolset:  
Tor, Tor Browser Bundle, Tails LiveCD, Tor Weather, Tor auto-responder, Secure Updater, Orbot, Torora, Tor Check, Arm, Nymble, Tor Control, and so on.

# Who uses Tor?



- Normal people
- Journalists
- Law Enforcement
- Human Rights Activists
- Business Execs
- Militaries
- Abuse Victims

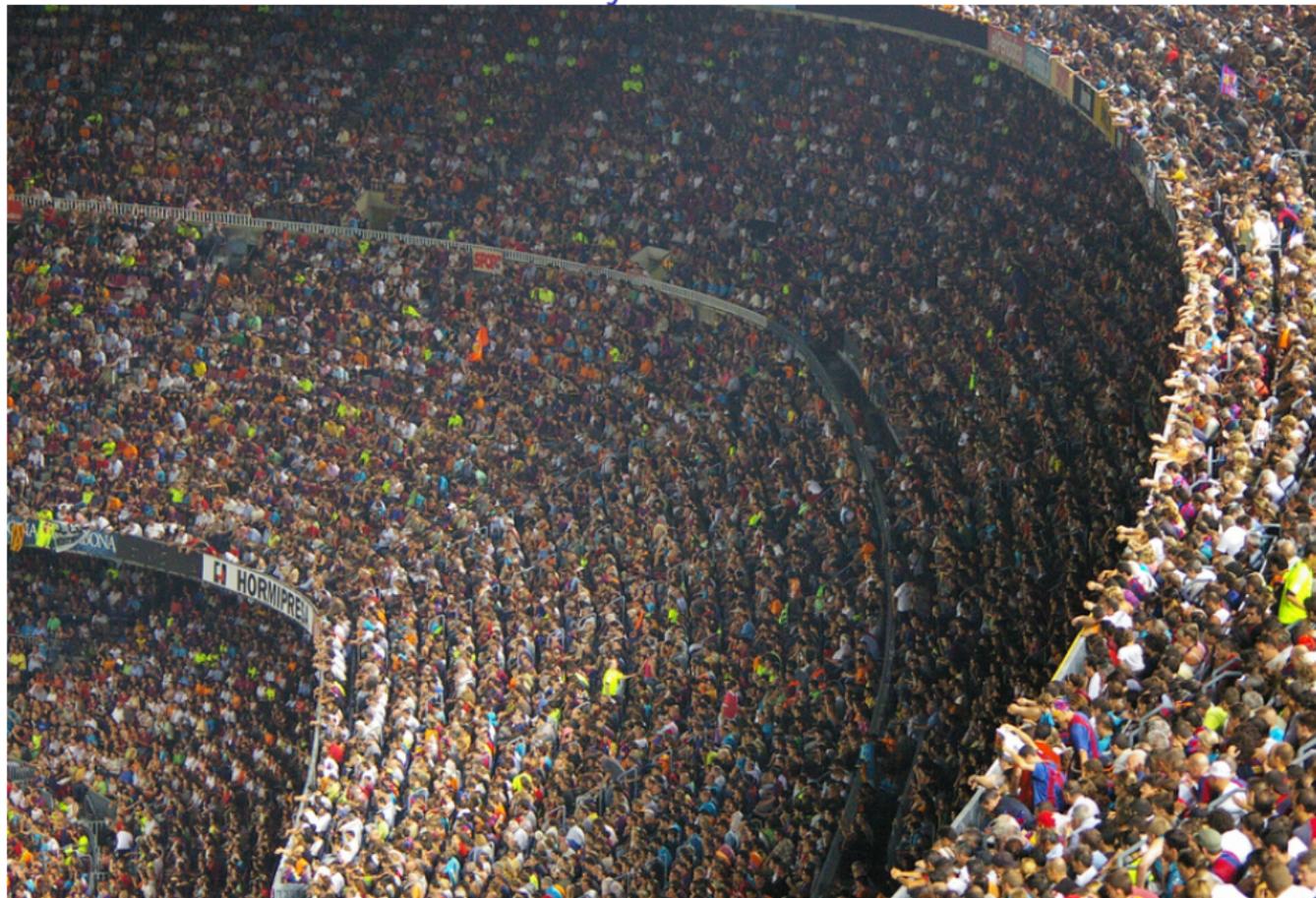
# Doesn't Tor enable criminals to do bad things?

“ *Criminals can already do bad things. Since they're willing to break laws, they already have lots of options available that provide better privacy than Tor provides.* ”

source:

<https://www.torproject.org/docs/faq-abuse.html.en#WhatAboutCriminals>

estimated 500k to 900k daily users



# Tor hides communication patterns by relaying data through volunteer servers

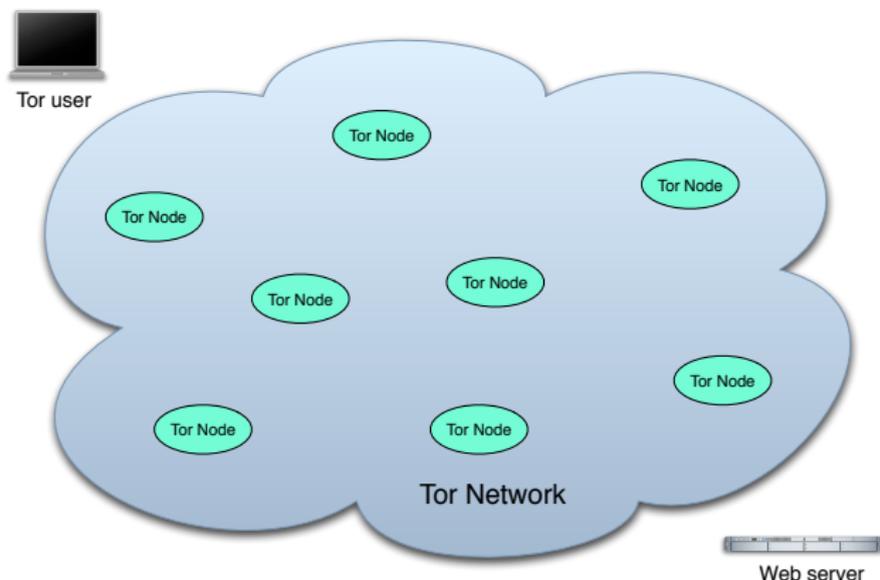


Diagram: Robert Watson

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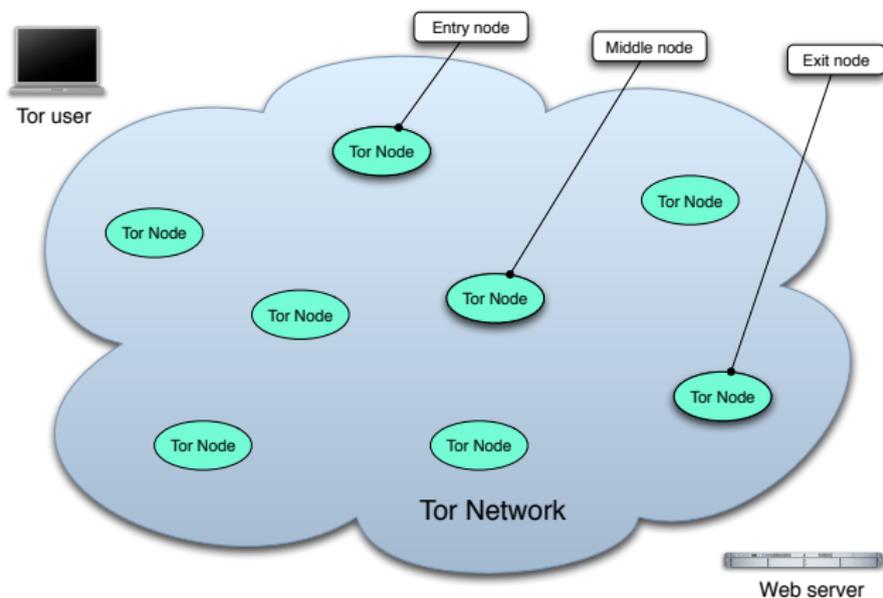


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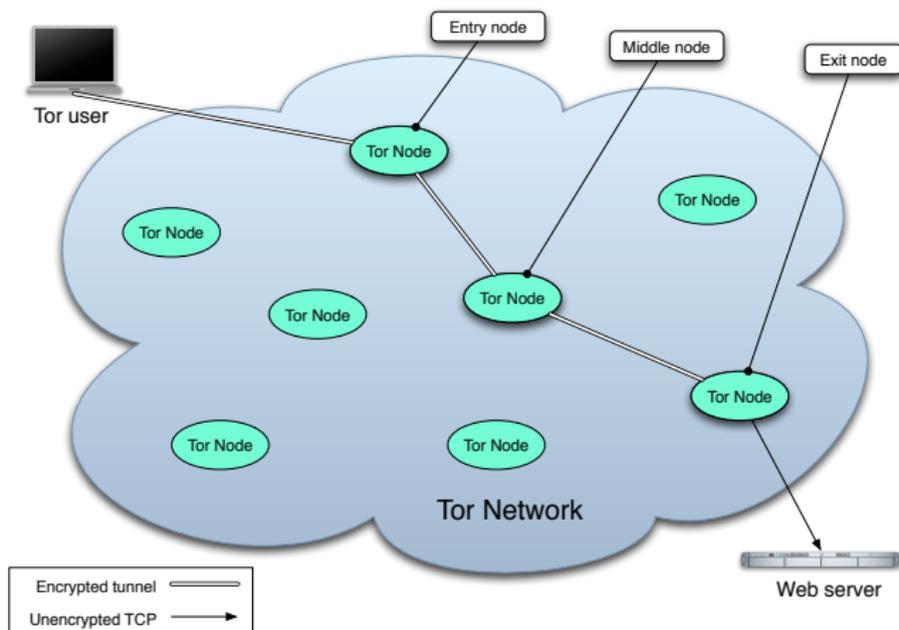


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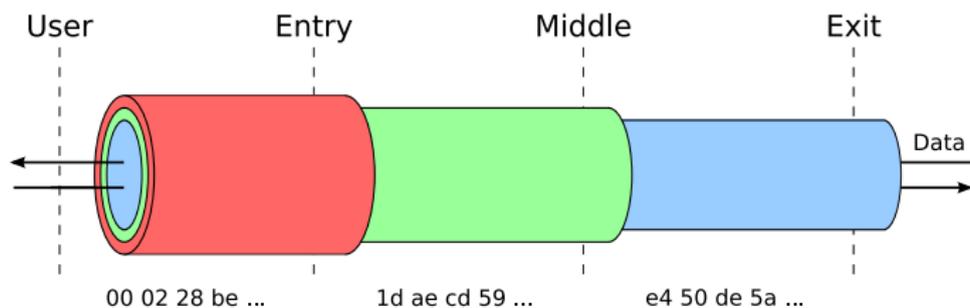
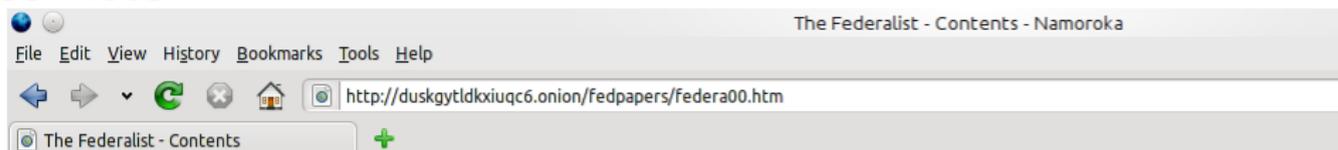


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# Tor hidden services allow privacy enhanced hosting of services



Alexander Hamilton

James Madison

John Jay

## The Federalist

The text of this version is primarily taken from the first collected 1788 "McLean edition", but spelling and punctuation errors -- mainly printer's lapses -- have been corrected. The main heads have also been taken from that edition and something like "The Same Subject Continued" we have repeated the previous heading and appended "(continued)", s have been guided by the excellent edition by Jacob E. Cooke, Wesleyan University Press, 1961. The footnotes are the edition used a variety of special typographical symbols for superscripts, we use numerals. Editors's footnotes are in original typography used for emphasis, such as all caps or italics, has been used here. We have tried to identify the

dot onion you say?

A screenshot of a web browser's address bar. The address bar contains the text "http://duskgytldkxiuqc6.onion/fedpapers/federa00.htm". To the left of the text is a small icon of a globe with a blue and green color scheme. The address bar is set against a light gray background.

http://duskgytldkxiuqc6.onion/fedpapers/federa00.htm

# Tails Live System/Journalist Toolkit



- Completely self-contained system

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- Learn more at <https://tails.boum.org/>

Thanks!



Visit <https://www.torproject.org/> for more information, links, and ideas.

## Credits & Thanks

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- 500k, <http://www.flickr.com/photos/lukaskracic/334850378/sizes/1/>, Luka Skracic, used with permission.