The Tor Project, Inc.

501(c)(3) non-profit organization dedicated to the research and development of technologies for online anonymity and privacy
Tor serves different interests for different user groups:

- **Private Citizens**
  “It's Privacy!”

- **Businesses**
  “It's network security!”

- **Governments**
  “It's traffic-analysis resistance!”

- **Human Rights Activists**
  “It's reachability!”
What is Tor?

- Online anonymity software and network
- Open source, freely available
- 3-clause BSD licensed
- CC-BY-3.0 Documentation and media
What is Tor?

Active research environment:

National Science Foundation, University of Waterloo, UMN, Georgia Tech, Princeton, UIUC, Drexel, Boston Univ, Naval Research Lab, UC-London, Indiana Univ., Univ. of Cambridge
What is Tor?

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.
Current Projects

- Knight Foundation
- Internews Network
- SRI International
- Broadcasting Board of Governors
- National Science Foundation
- Radio Free Asia
- Swedish International Development and Cooperation Agency
Who Uses Tor?

- Law Enforcement
- Human Rights Activists
- Business Executives
- Abuse Victims
- Military
- Normal People
Estimated 500k to 1 million daily users worldwide
How is Tor different?

VPNs, HTTP/HTTPS proxies, I2P, Freenet, Swarm, Retroshare, Vanish

vs.

JonDos and Tor
A Typical Internet Connection

Alice → Network → Bob
Alice might be watched.
Parts of the network could be monitored.
Bob could be compromised.
How is Tor Different?

Alice → Relay → Bob
A Basic Relay System

Alice

Relay

Bob
An Evil Relay

Alice → Evil Relay → Bob
An Evil Network

Alice → Relay → Bob
How Tor Works

Entry Node → Middle Node → Exit Node

Alice

Middle Node

Exit Node

Bob
Alice connects to an Entry Node.
The data is routed through a Middle Node.
The data is routed through an Exit Node.
Alice's circuit to Bob is established.
Network Map
Visit us for more information, links, and ideas at https://www.torproject.org
Credits and Thanks

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