

Andrew Lewman andrew@torproject.org



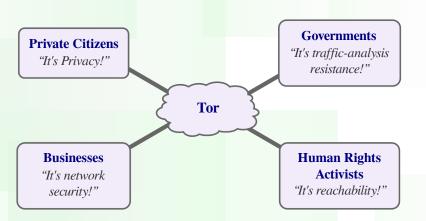
The Tor Project, Inc.

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:





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





How is Tor different?

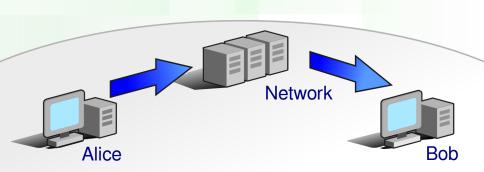
VPNs, HTTP/HTTPS proxies, I2P, Freenet, Swarm, Retroshare, Vanish

VS.

JonDos and Tor

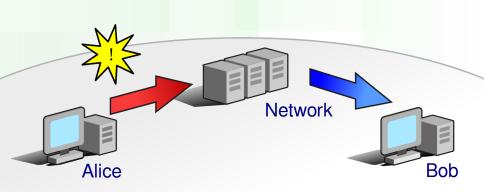


A Typical Internet Connection



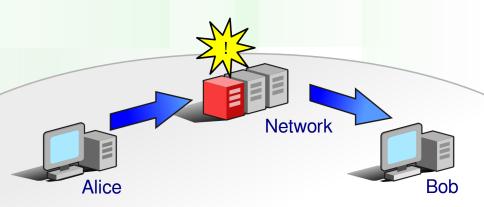


Alice might be watched.



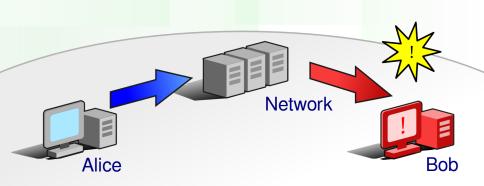


Parts of the network could be monitored.



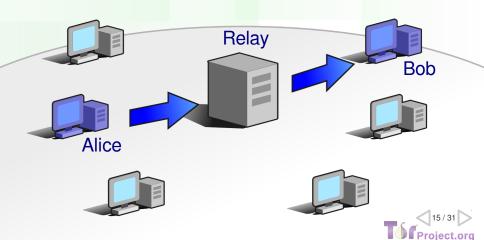


Bob could be compromised.

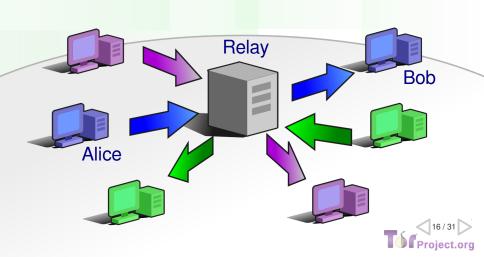




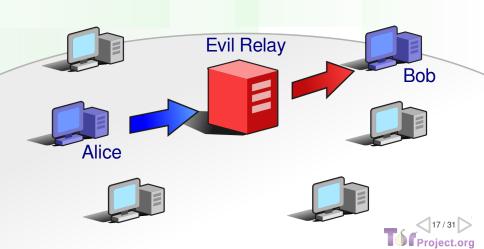
How is Tor Different?



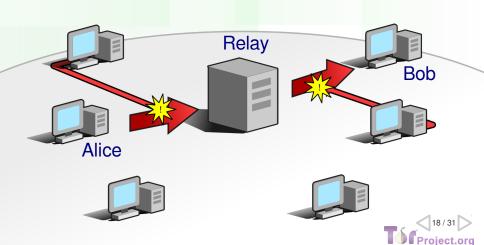
A Basic Relay System



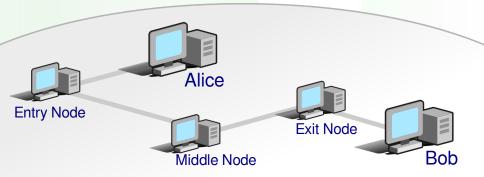
An Evil Relay



An Evil Network

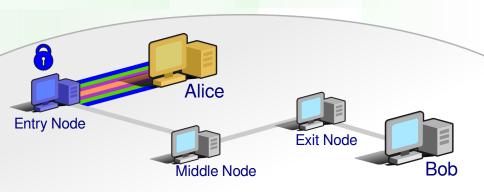


How Tor Works



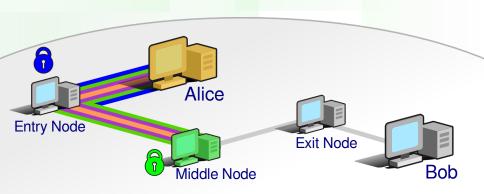


Alice connects to an Entry Node.



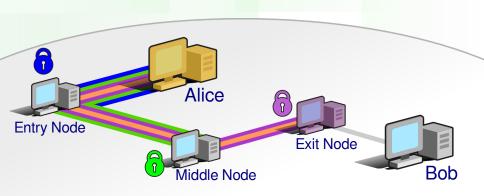


The data is routed through a Middle Node.



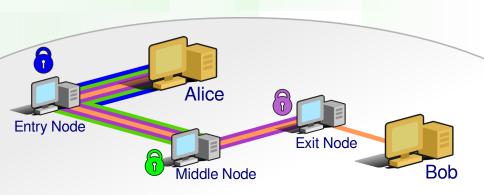


The data is routed through an Exit Node.



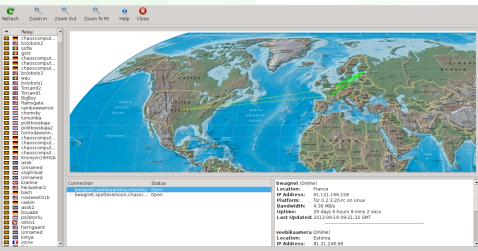


Alice's circuit to Bob is established.





Network Map

















Visit us for more information, links, and ideas at https://www.torproject.org



Credits and Thanks

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