Assessing Usability of Tor Browser

David Fifield¹ and Linda N. Lee¹, Serge Egelman^{1,2}, David Wagner¹

¹University of California, Berkeley, {fifield,lnl,egelman,daw}@cs.berkeley.edu, ²International Computer Science Institute, egelman@icsi.berkeley.edu

TODO: write the paper for PETS currently, it is the same as the class paper..

ABSTRACT

Abstract here.

Keywords

Privacy, Security, User Studies, Anonymity, Tor

1. WHAT WE ALREADY DID/BACKGROUND STUFF

Text here.

2. DESIGN

In this section, we outline previous research regarding how users understand and act on the Internet, communicating relevant risks to users, and usability of Tor Browser

3. WHAT WE WANT FEEDBACK ON

4. REFERENCES

- [1] A. Acquisti. Privacy in electronic commerce and the economics of immediate gratification. In *Proceedings* of the 5th ACM conference on Electronic commerce, pages 21–29. ACM, 2004.
- [2] D. Akhawe and A. P. Felt. Alice in warningland: A large-scale field study of browser security warning effectiveness. In *Usenix Security*, pages 257–272, 2013.
- [3] J. Clark, P. C. Van Oorschot, and C. Adams. Usability of anonymous web browsing: an examination of tor interfaces and deployability. In *Proceedings of* the 3rd symposium on Usable privacy and security, pages 41–51. ACM, 2007.
- [4] L. F. Cranor and S. Garfinkel. Security and usability: designing secure systems that people can use." O'Reilly Media, Inc.", 2005.
- [5] R. Dingledine and N. Mathewson. Anonymity loves company: Usability and the network effect. In WEIS, 2006.
- [6] R. Dingledine, N. Mathewson, and P. Syverson. Tor: The second-generation onion router. Technical report, DTIC Document, 2004.
- [7] S. Egelman, L. F. Cranor, and J. Hong. You've been warned: an empirical study of the effectiveness of web

- browser phishing warnings. In *Proceedings of the SIGCHI Conference on Human Factors in Computing Systems*, pages 1065–1074. ACM, 2008.
- [8] B. Fabian, F. Goertz, S. Kunz, S. Müller, and M. Nitzsche. Privately waiting—a usability analysis of the tor anonymity network. In Sustainable e-Business Management, pages 63–75. Springer, 2010.
- [9] C. Jensen, C. Potts, and C. Jensen. Privacy practices of internet users: Self-reports versus observed behavior. *International Journal of Human-Computer* Studies, 63(1):203–227, 2005.
- [10] S. Le Blond, P. Manils, C. Abdelberi, M. A. D. Kaafar, C. Castelluccia, A. Legout, and W. Dabbous. One bad apple spoils the bunch: exploiting p2p applications to trace and profile tor users. arXiv preprint arXiv:1103.1518, 2011.
- [11] P. A. Norberg, D. R. Horne, and D. A. Horne. The privacy paradox: Personal information disclosure intentions versus behaviors. *Journal of Consumer Affairs*, 41(1):100–126, 2007.
- [12] G. Norcie, K. Caine, and L. J. Camp. Eliminating stop-points in the installation and use of anonymity systems: A usability evaluation of the tor browser bundle. In 5th Workshop on Hot Topics in Privacy Enhancing Technologies (HotPETS). Citeseer, 2012.
- [13] The Tor Project, "uxsprint2015" tickets, Mar. 2015.
- [14] I. The Tor Project. Who uses tor?, 2015.
- [15] Wikipedia. Golden shield project, 2015.
- [16] Wikipedia. Restrictions on the import of cryptography, 2015.
- [17] Wikipedia. Tor (anonymity network), 2015.