Towards Privacy Standards Based on Empirical Data

Serge Egelman Erika McCallister



Previous Privacy Standards

- P3P had highly granular privacy options
- · Major web browsers supported it
- >25% of the most popular websites supported P3P
- Great success?



P3P is too granular!

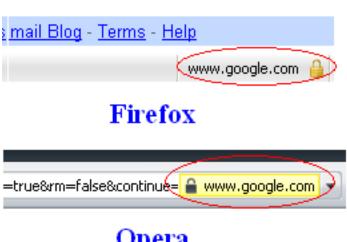


How about SSL?

- Most users don't understand when a website is encrypted
- Most users don't understand what most SSL errors mean
- There are only two failure modes:
 - Site is not properly encrypted
 - Site is not trusted

\$#*! My Browser Says





UI Is Critical

- Interface needs to be consistent
- So how do we do this?
 - Will users make more informed decisions when impact is clearer?
 - Is informed consent currently being obtained when sites request data?
- We need data!

Quid Pro Quo

CNN Social is requesting permission to do the following:



Access my basic information

Includes name, profile picture, gender, networks, user ID, list of friends, and any other information I've shared with everyone.

Report App

Logged in as Serge Egelman (Not You?)



CMMoney.com

CNN Social

Don't Allow

Nom, nom, nom!



Information Technology Laboratory
Visualization and Usability Group

National Institute of Standards and Technology U.S. Department of Commerce

Informed Consent?

