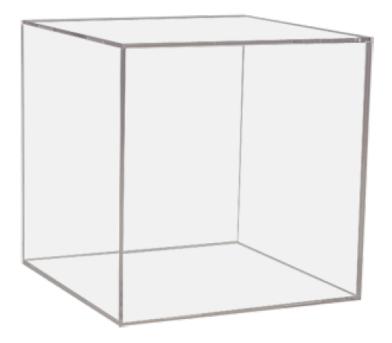


APRIL 23RD - 2020

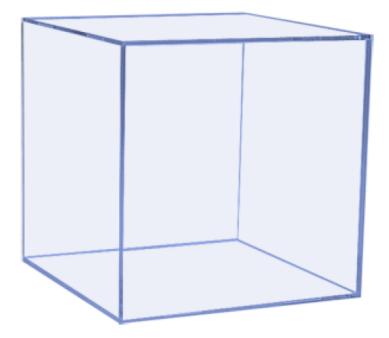
Dirty Clicks: A Study of the Usability and Security Implications of Click-related Behaviors on the Web

Iskander Sanchez-Rola, Davide Balzarotti, Christopher Kruegel, Giovanni Vigna, and Igor Santos

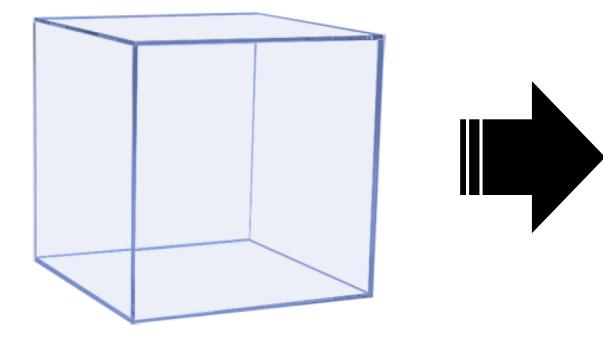




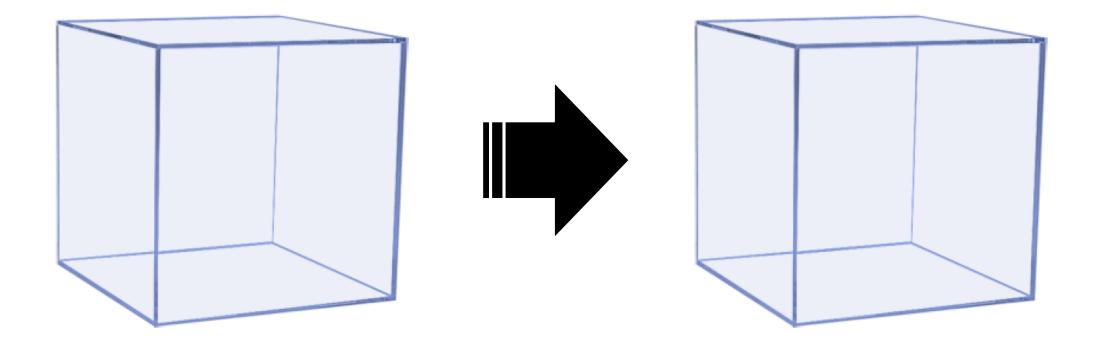




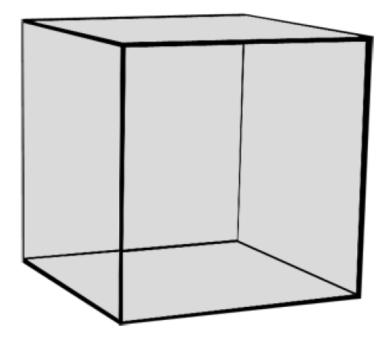




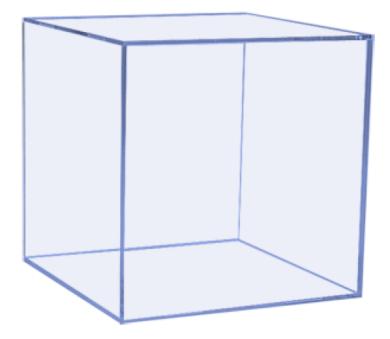




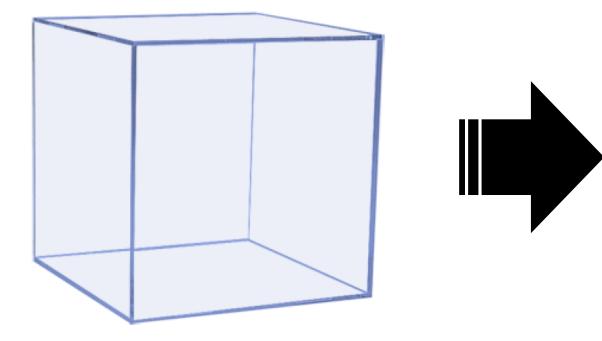




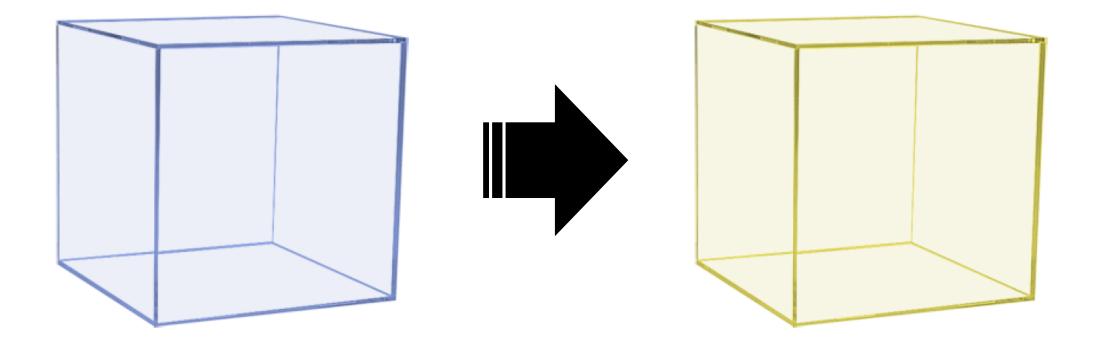






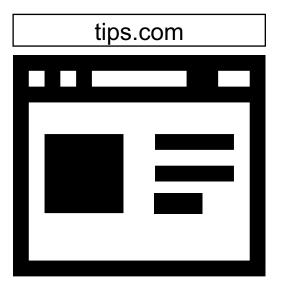




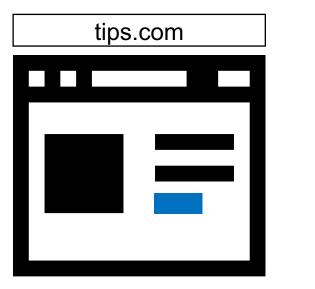




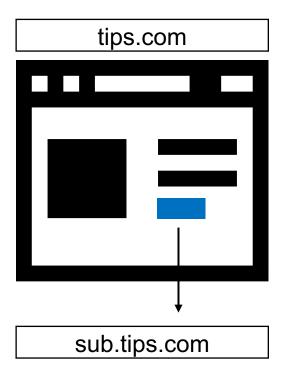
9



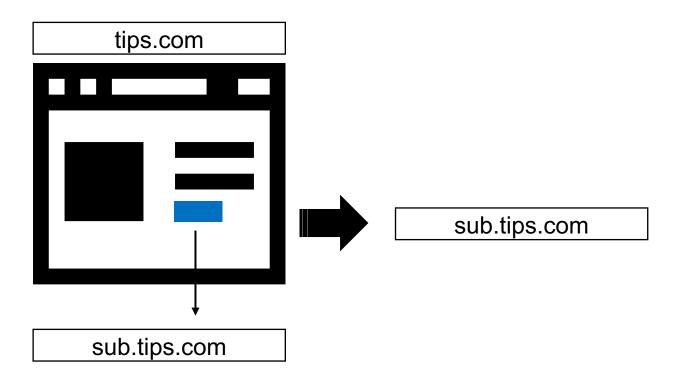




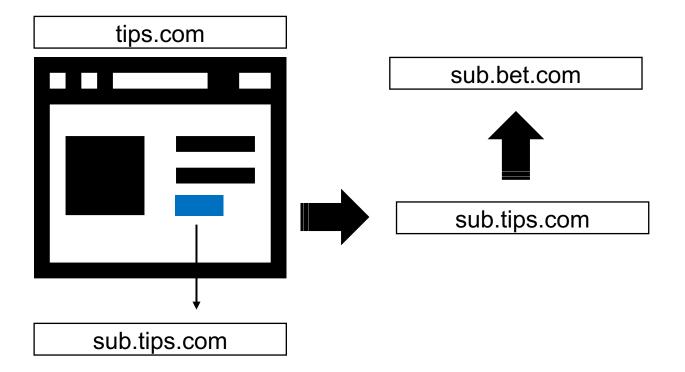




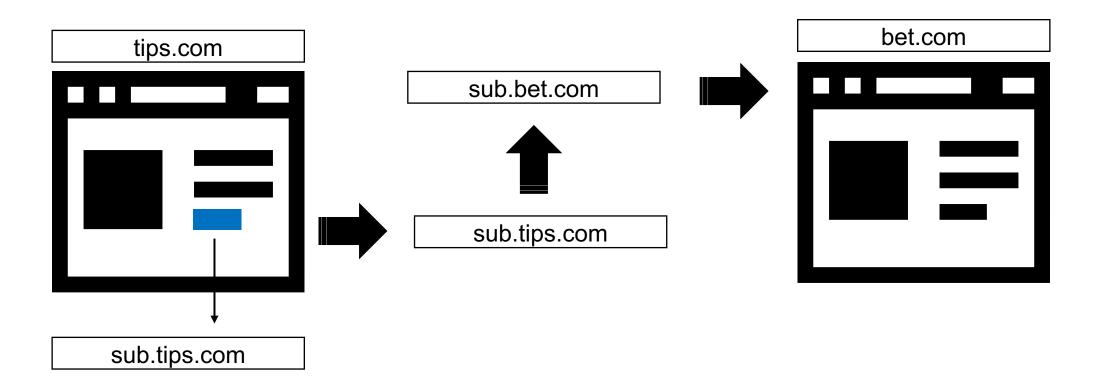




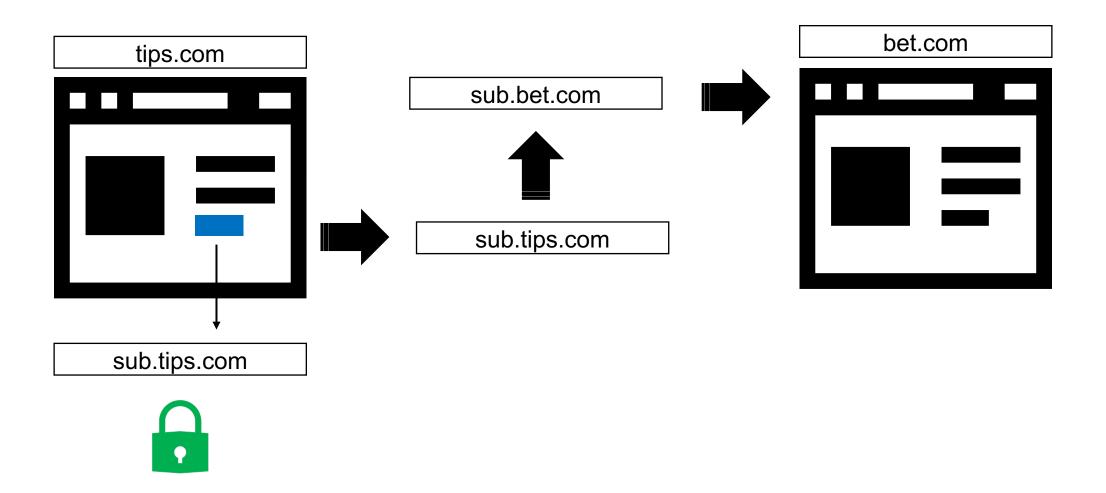


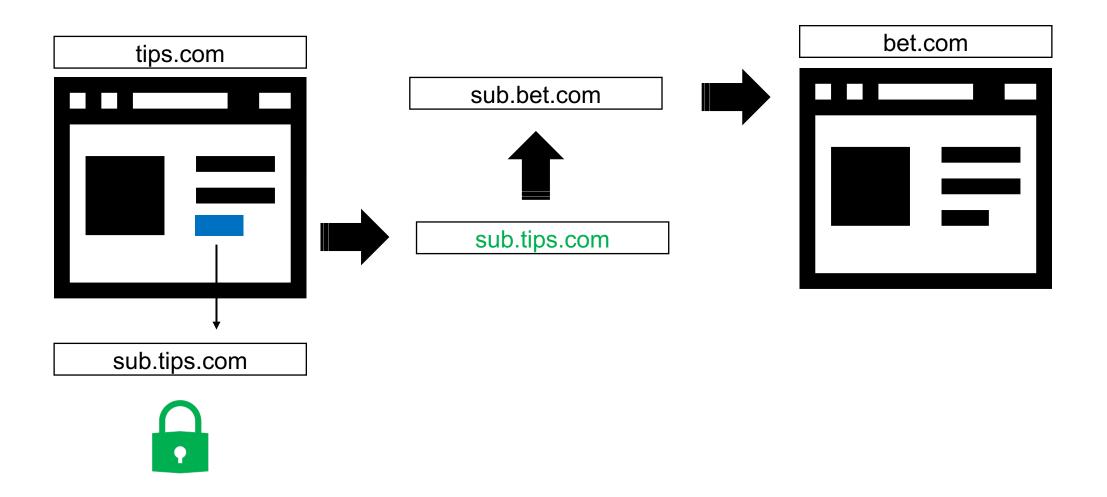


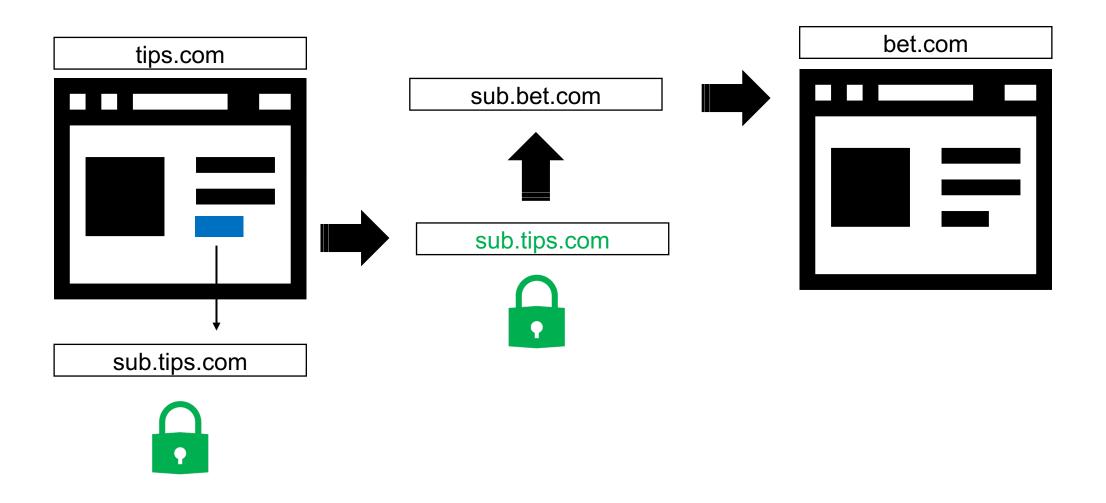




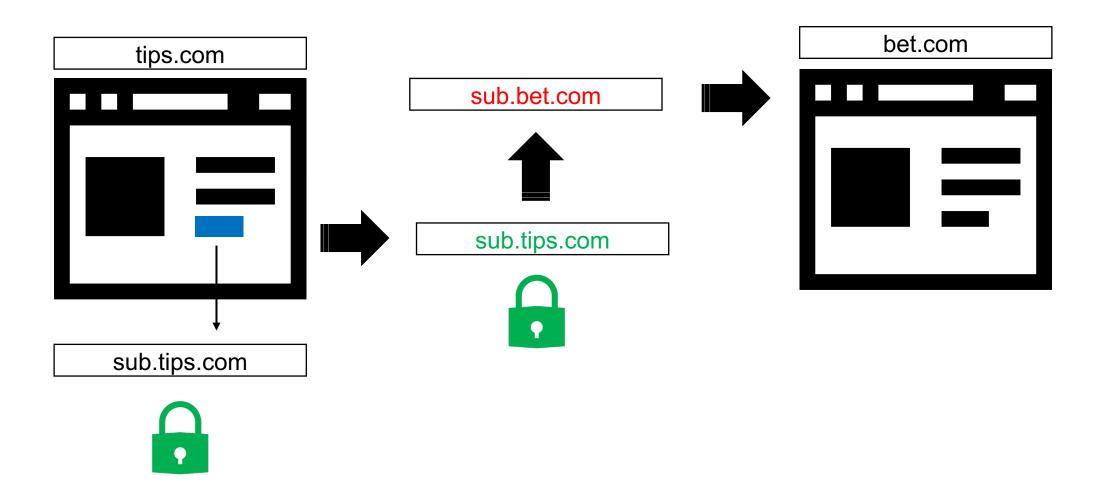




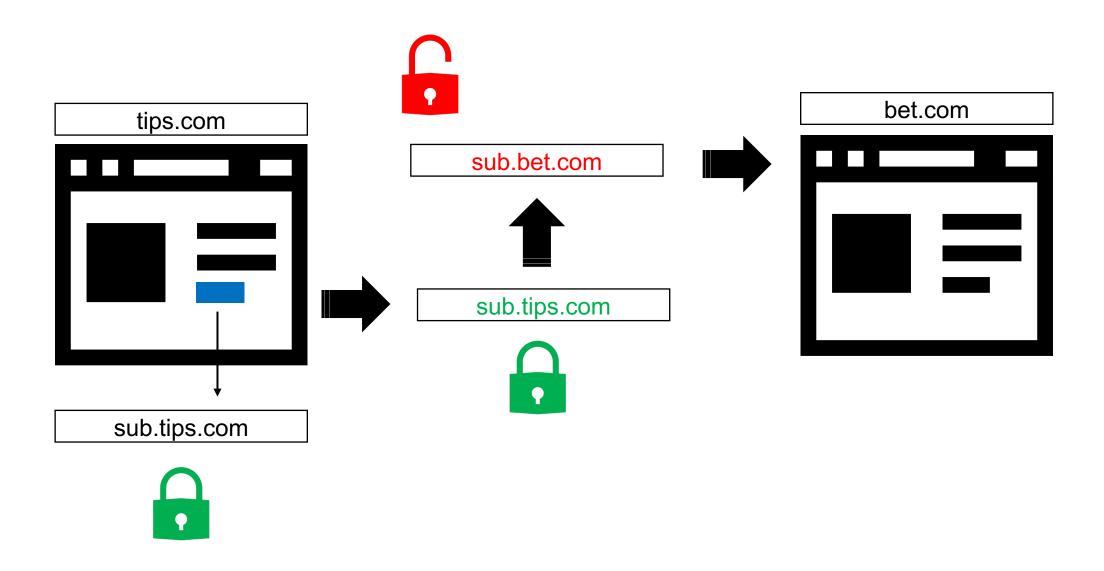




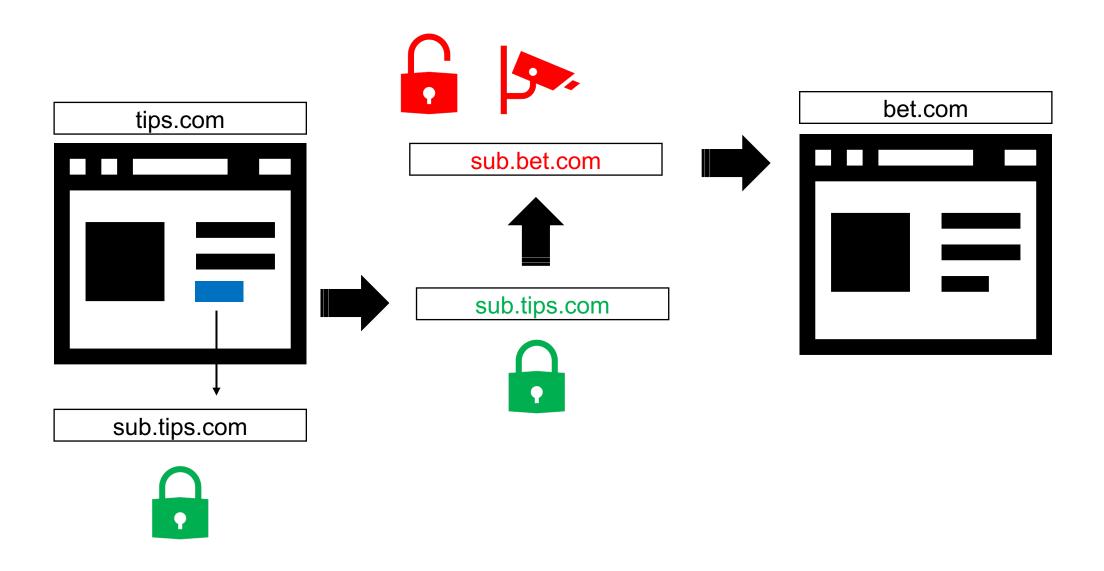




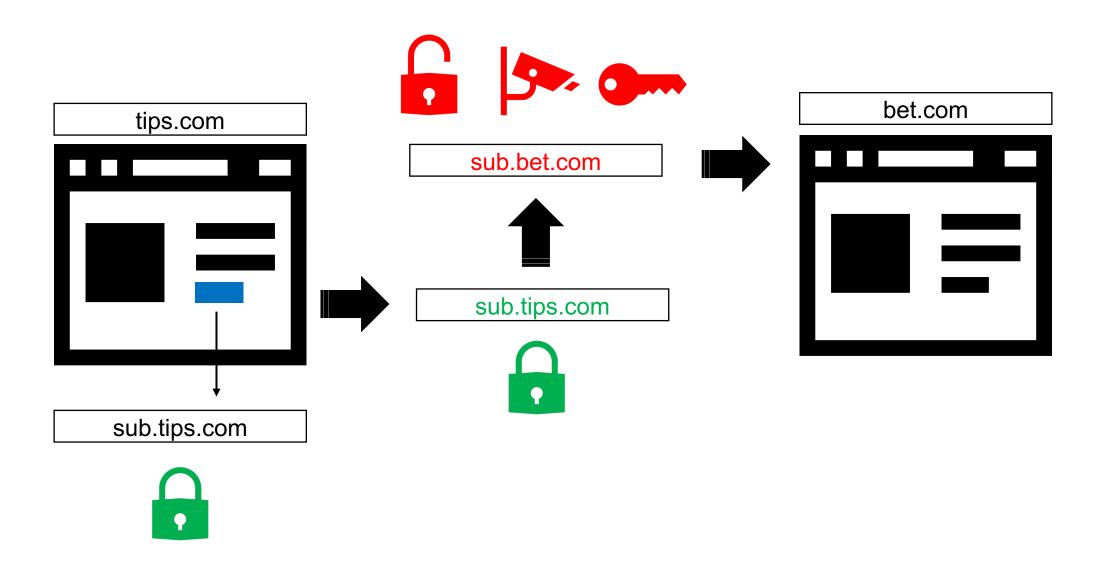




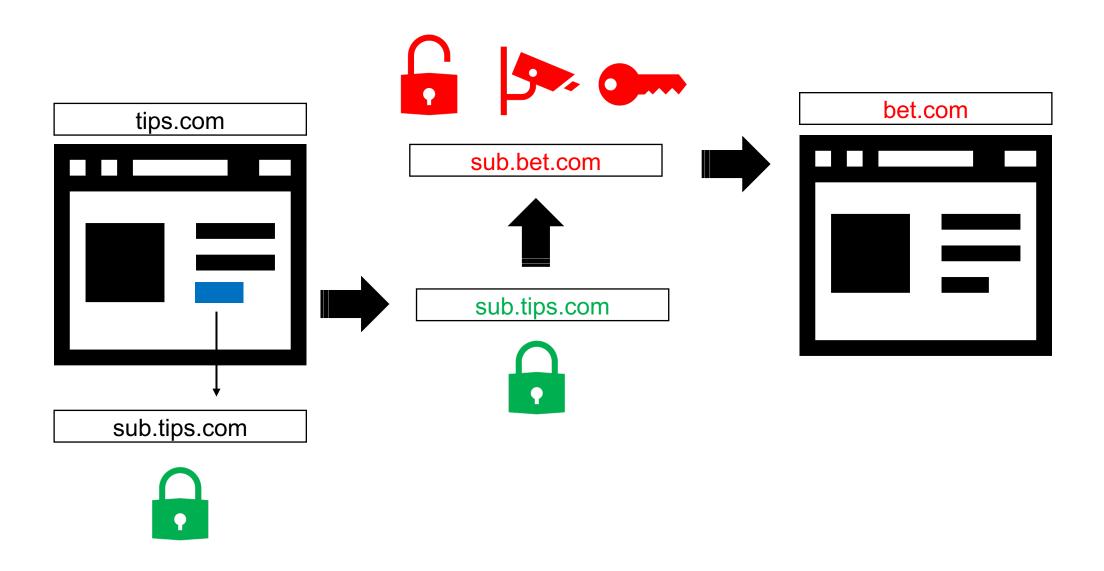




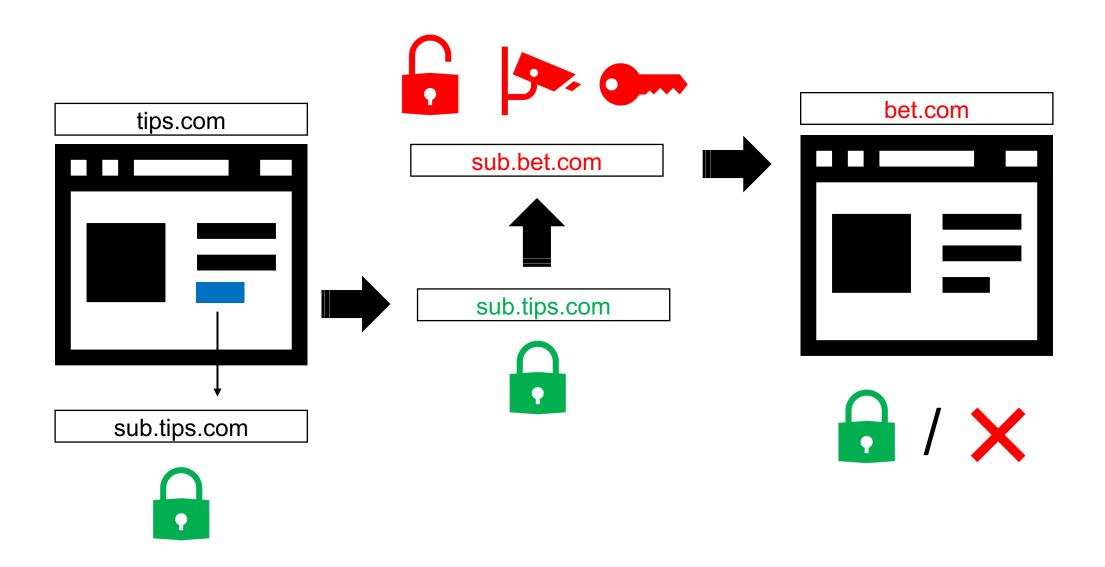












Click Contract





Click Contract

What You See Is What You Get



Click Contract

Trust in the Endpoints



Contribution

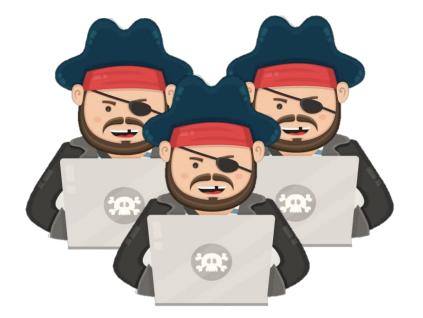
2.5M Clicks

Chromium based Crawler



Contribution

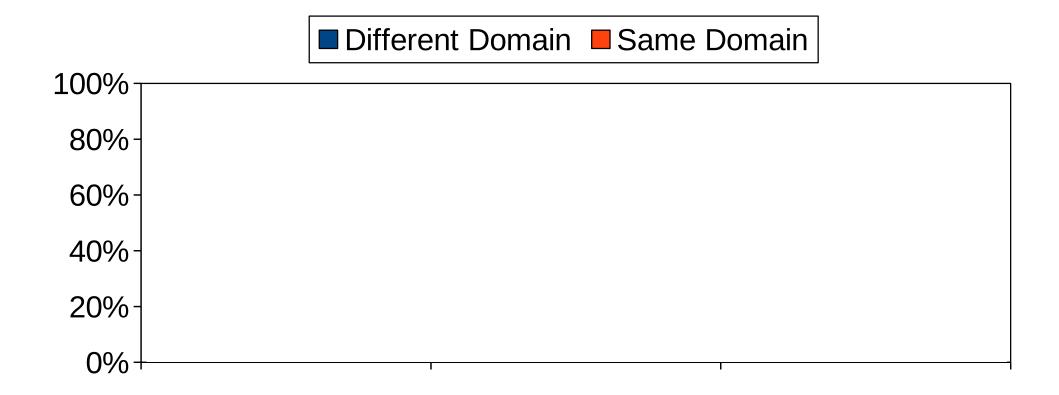




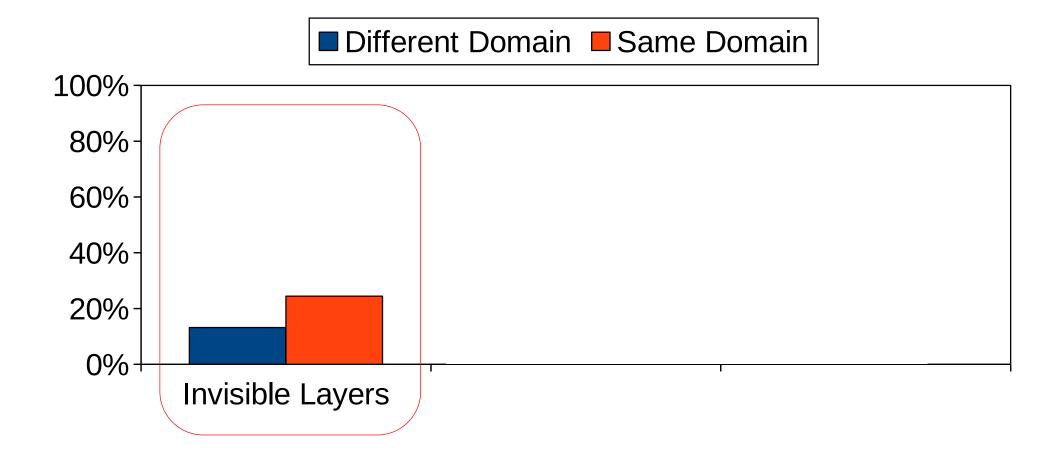




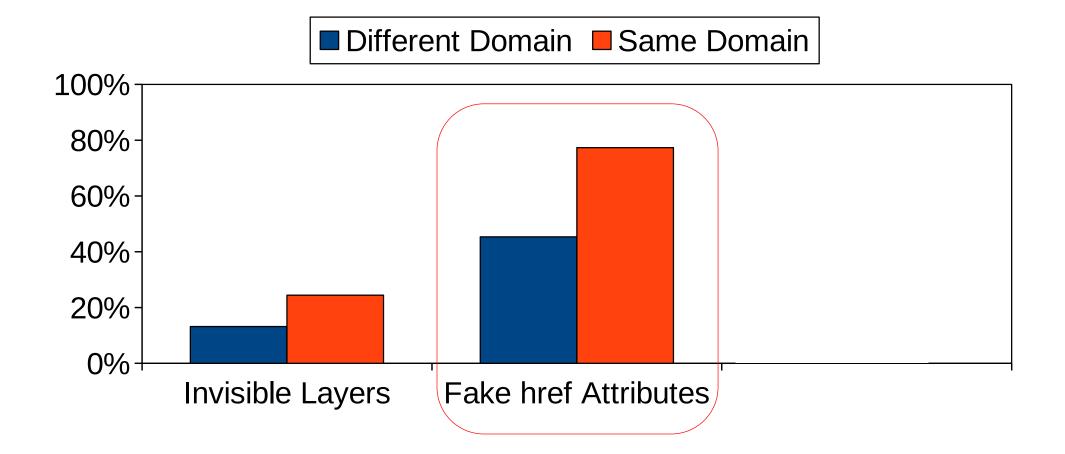




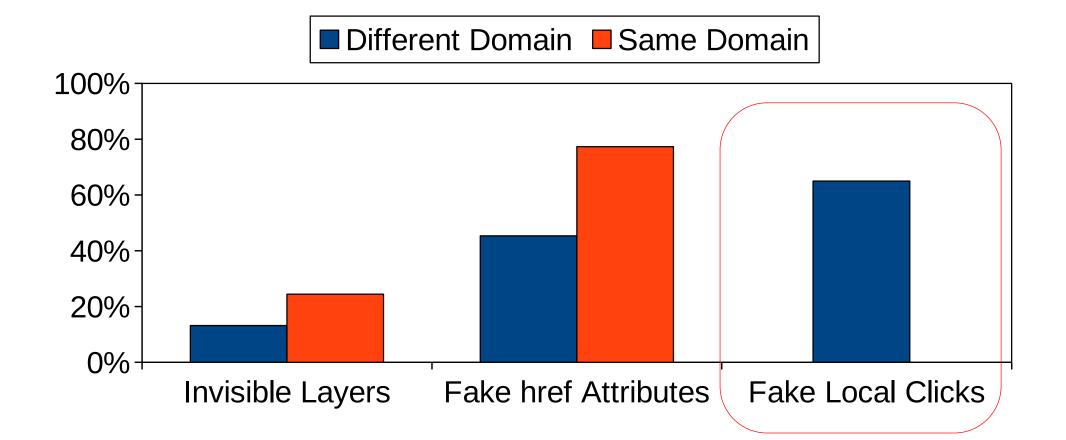




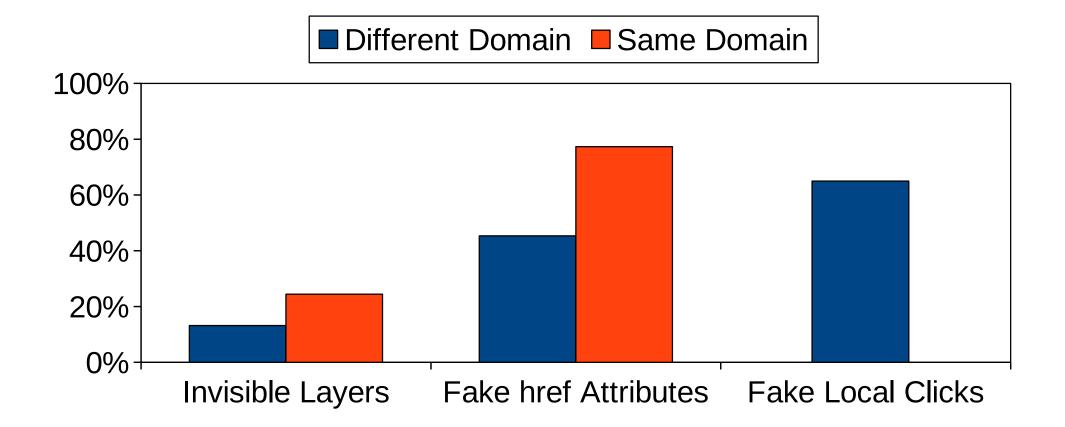






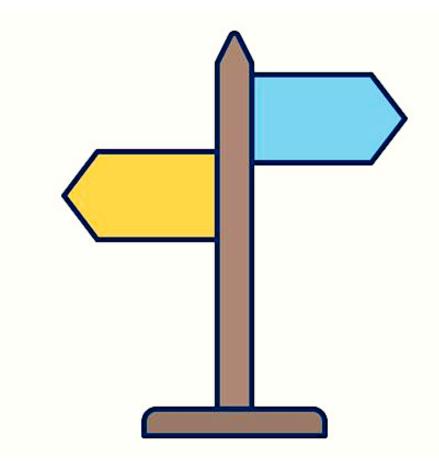








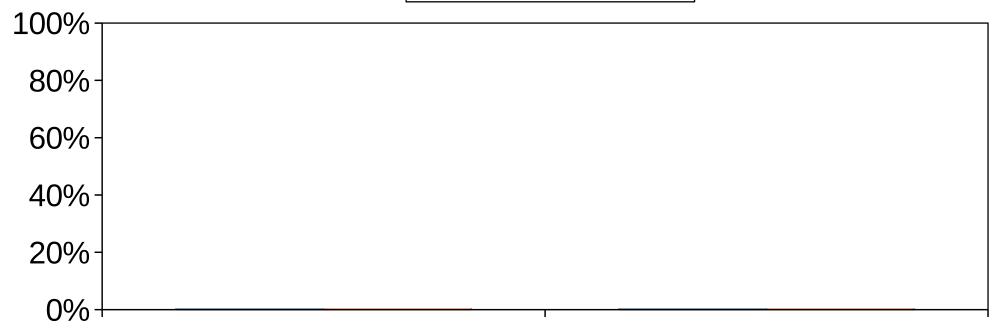
User Redirection



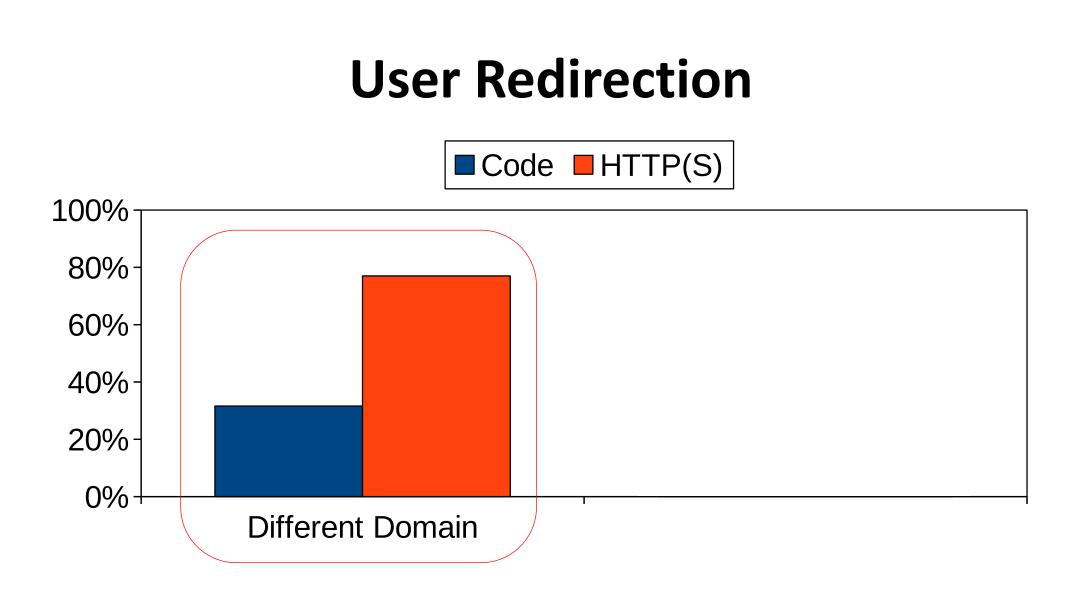


User Redirection





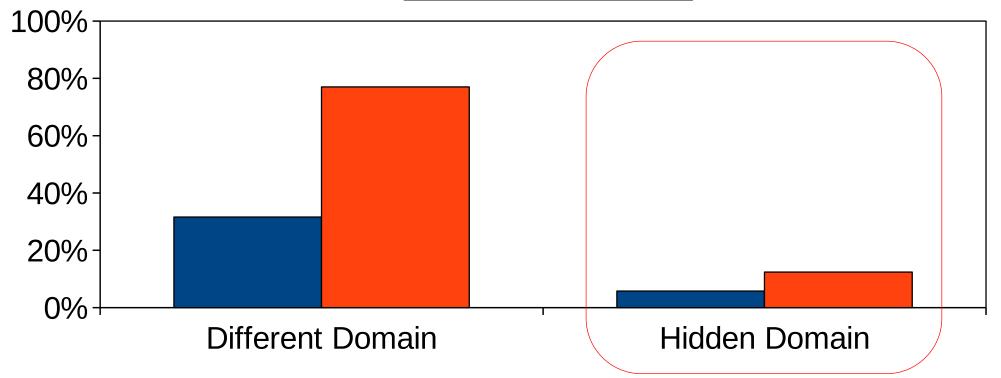






User Redirection

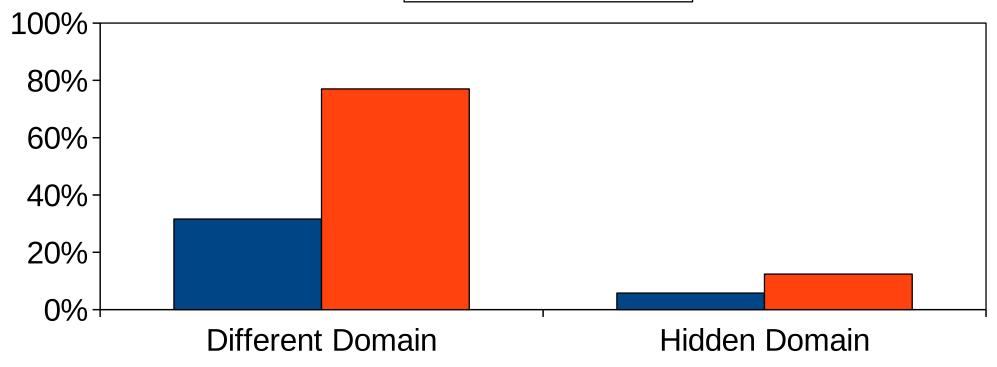






User Redirection

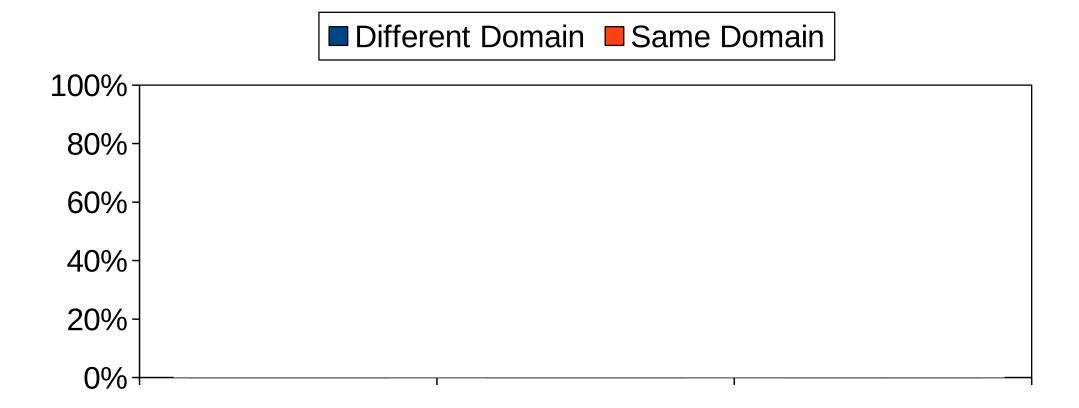




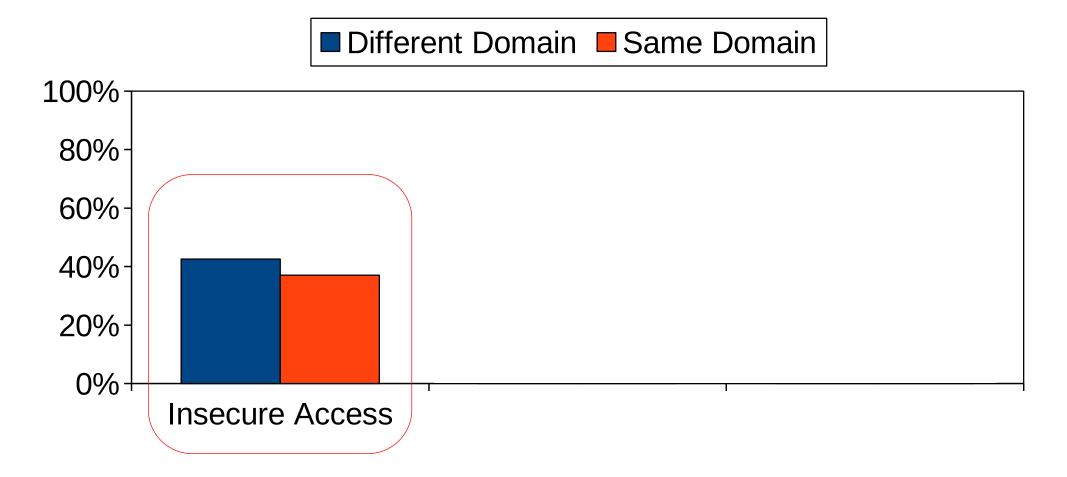




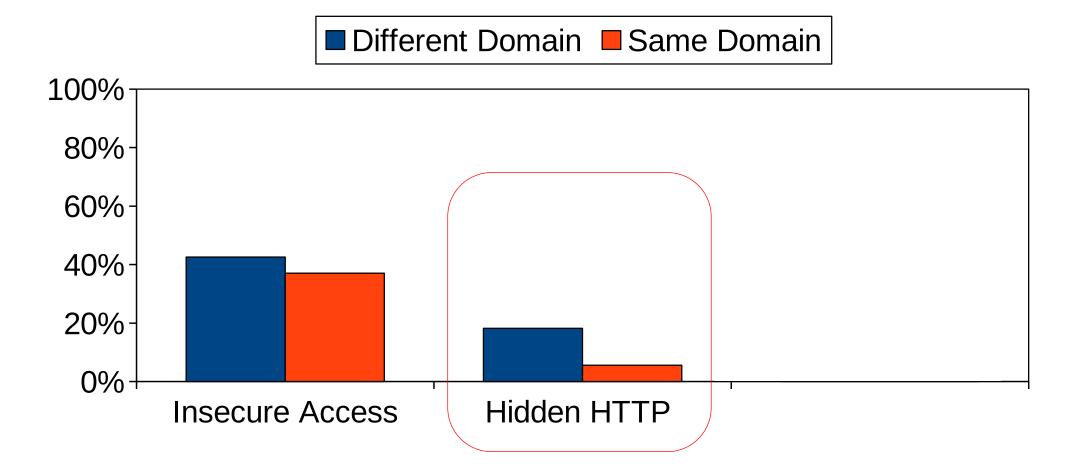




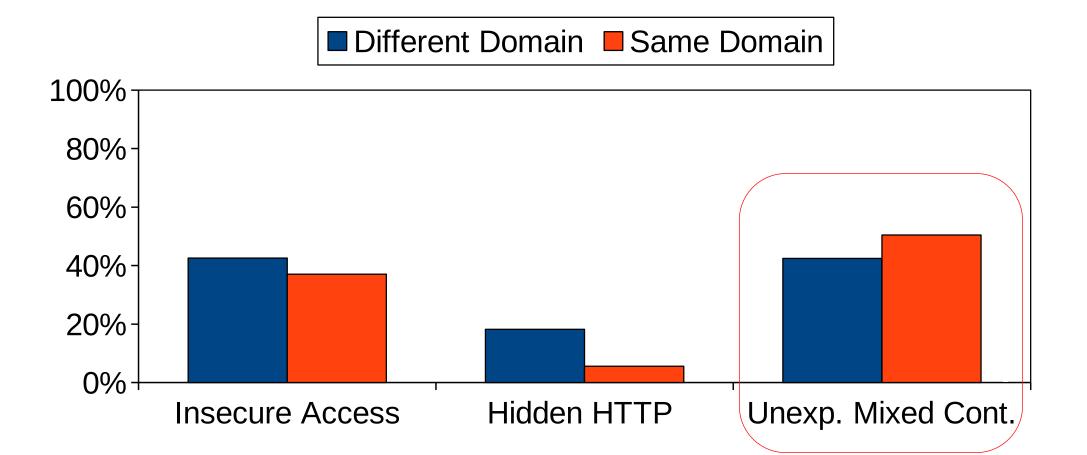




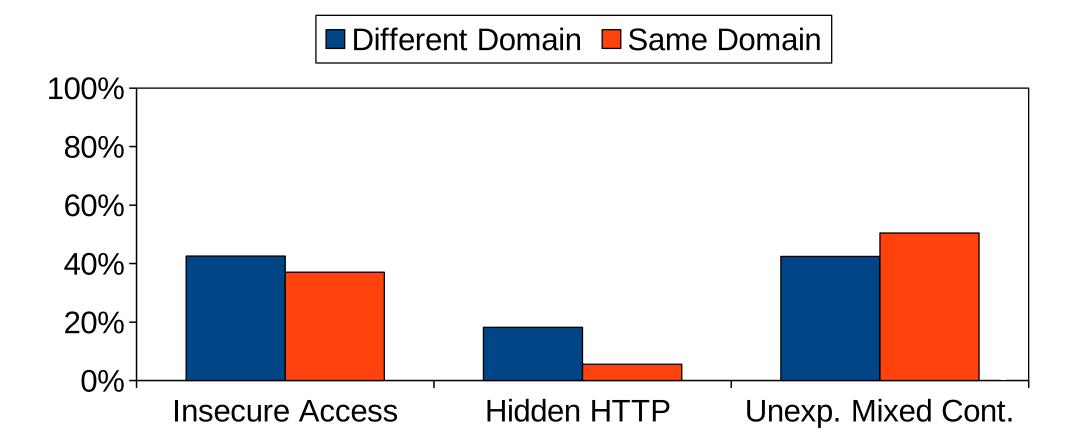










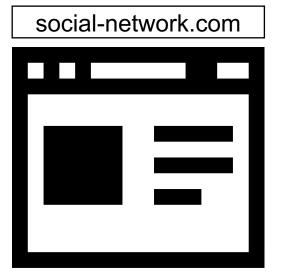




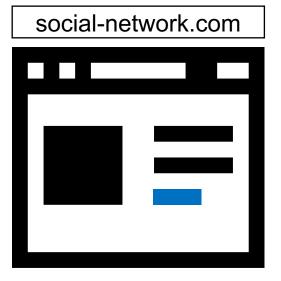
Phishing Threats



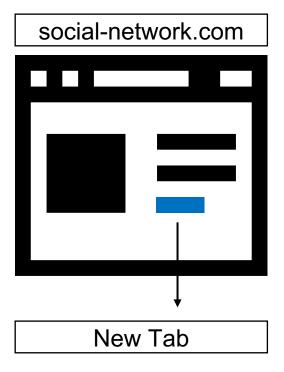




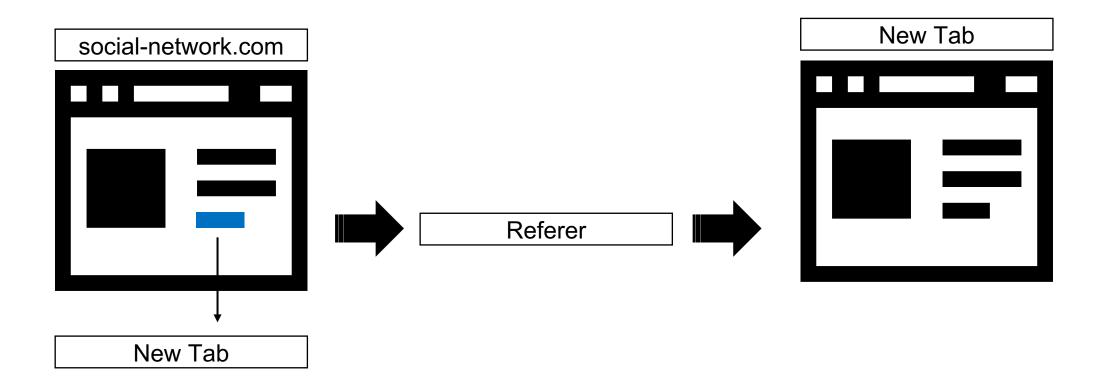




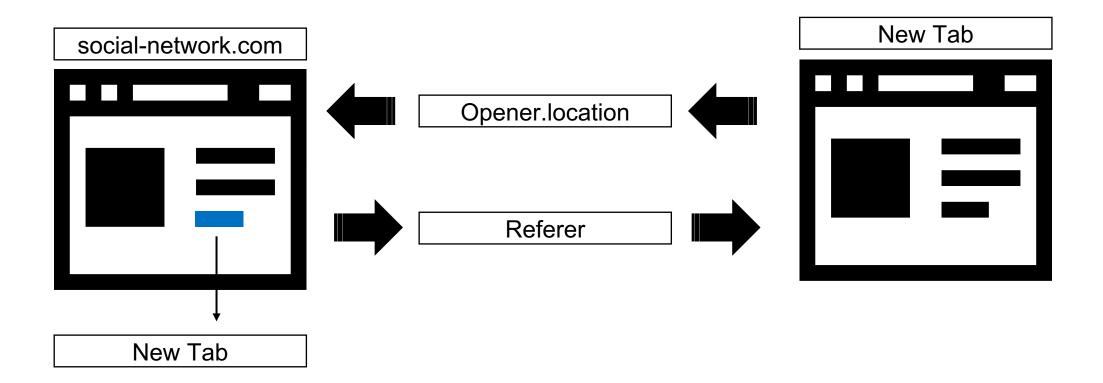




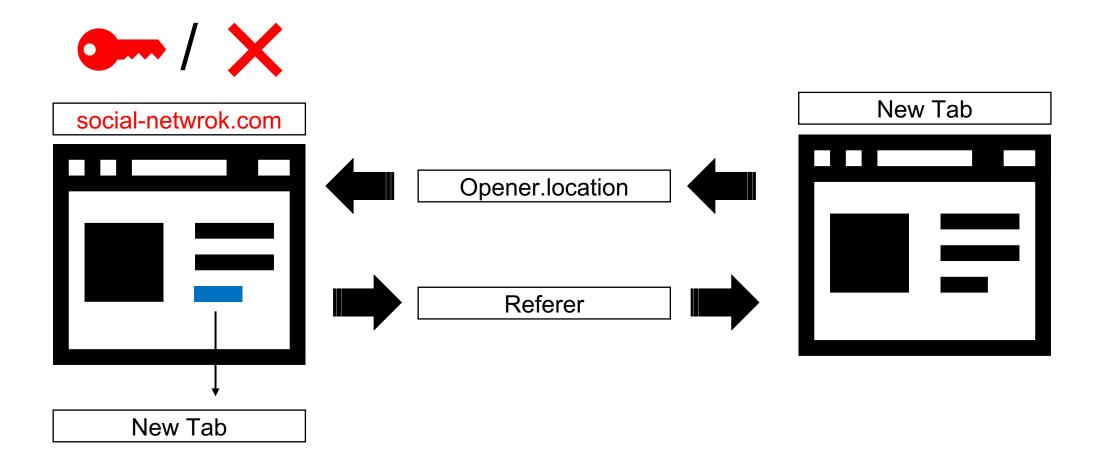




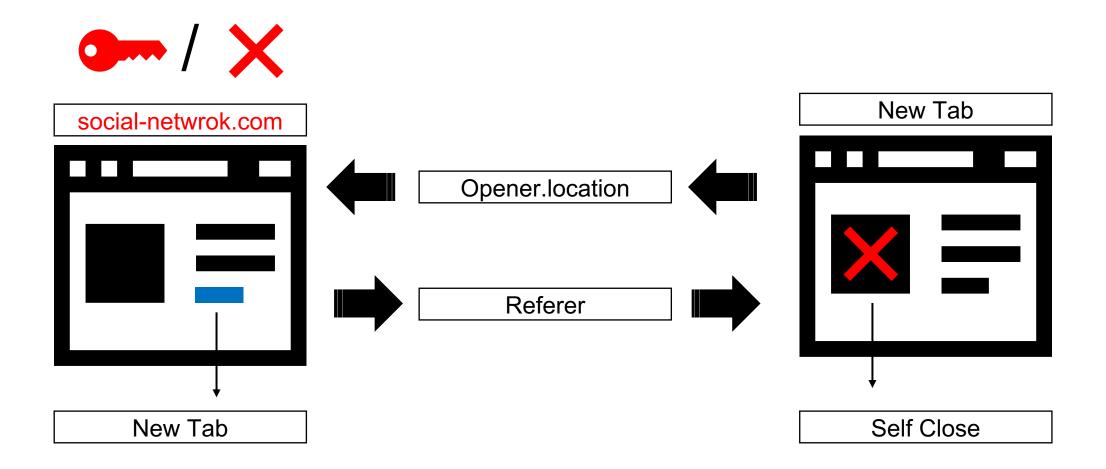












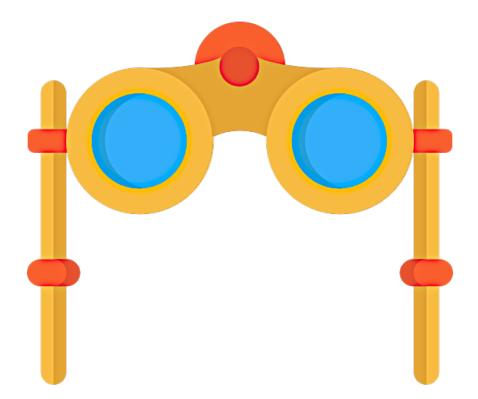


Phishing Threats

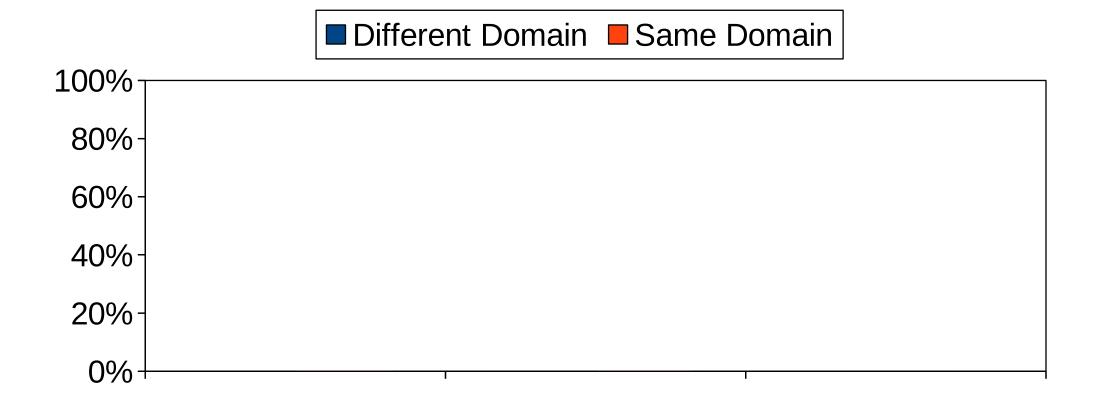
2% Protected

90% Opened New Tabs

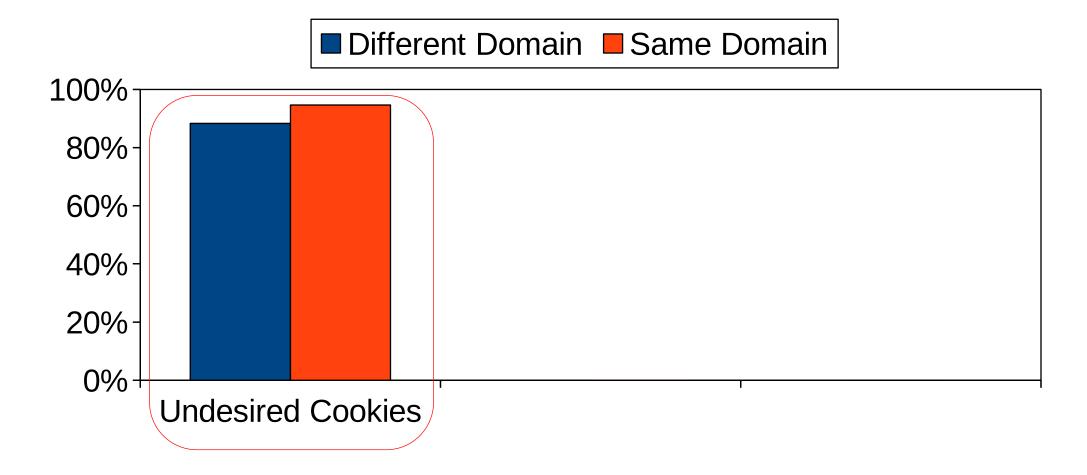




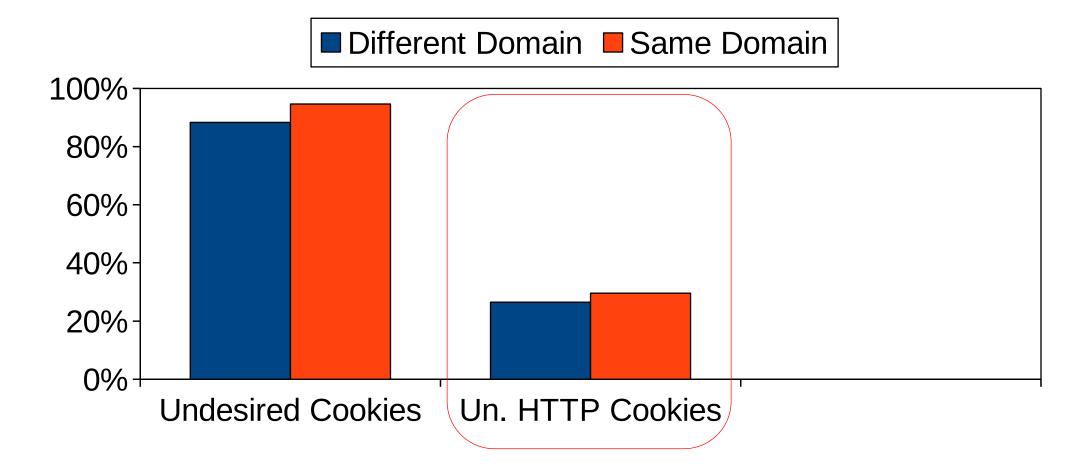




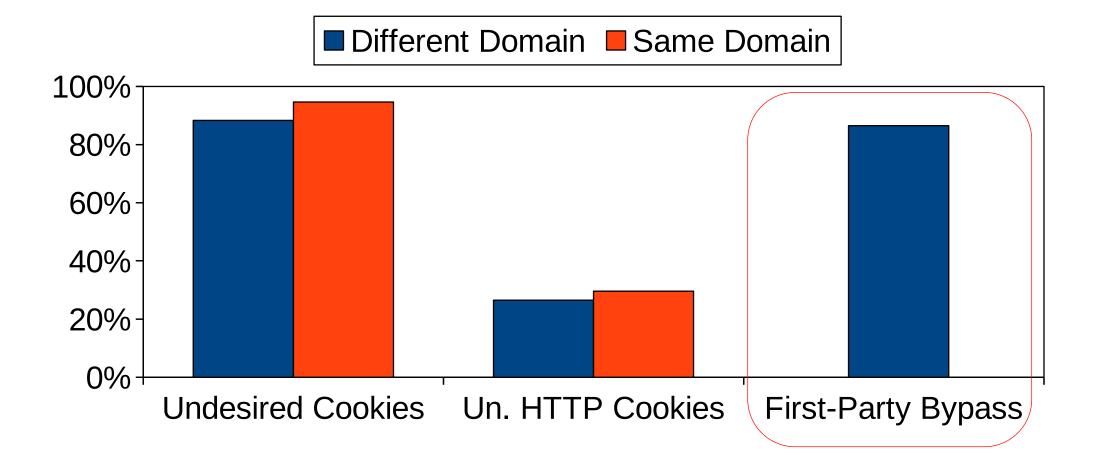


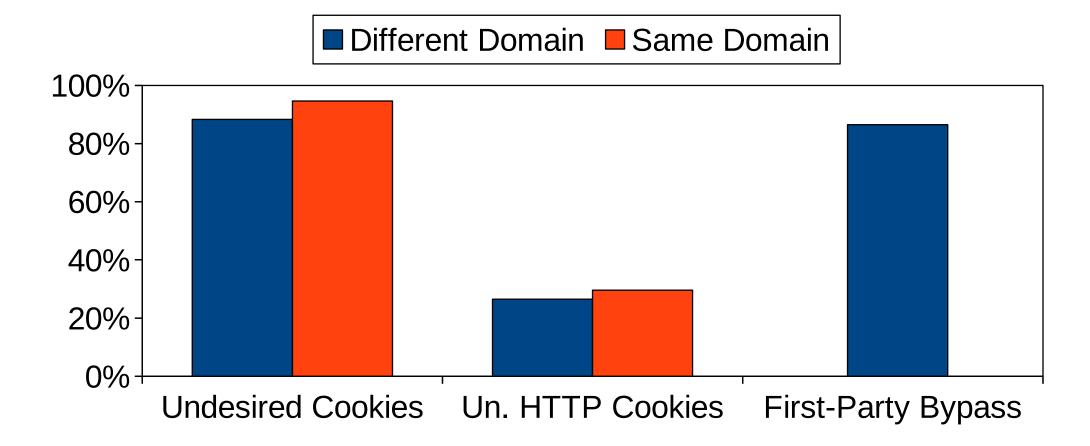














Threat Risk





Threat Risk

Poor Click Hygiene Increases the Risk of End Users

10-20% from Low to High





Thank You!

Iskander.Sanchez@NortonLifeLock.com

Iskander-Sanchez-Rola.com

Copyright © 2019 NortonLifeLock Inc. All rights reserved.