The Long Taile of Typosquatting Domain Names

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Extent of Typosquatting

GOOGXE.COM

ALL .com domains

4.7 million typos targeting the **488 113** Alexa's top .com domains

230 000 typos targeting the 3264 Alexa's top.com domains

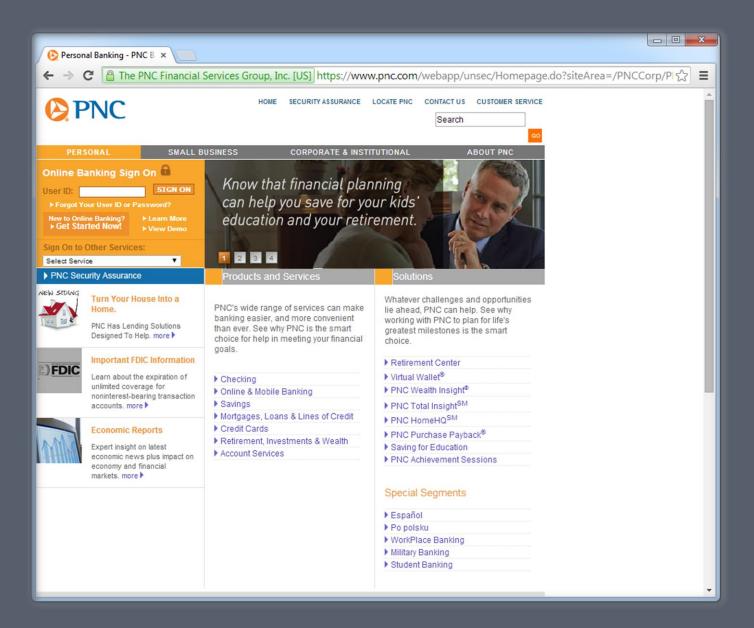
Alexa provides a list of domains ranked by popularity

Outline

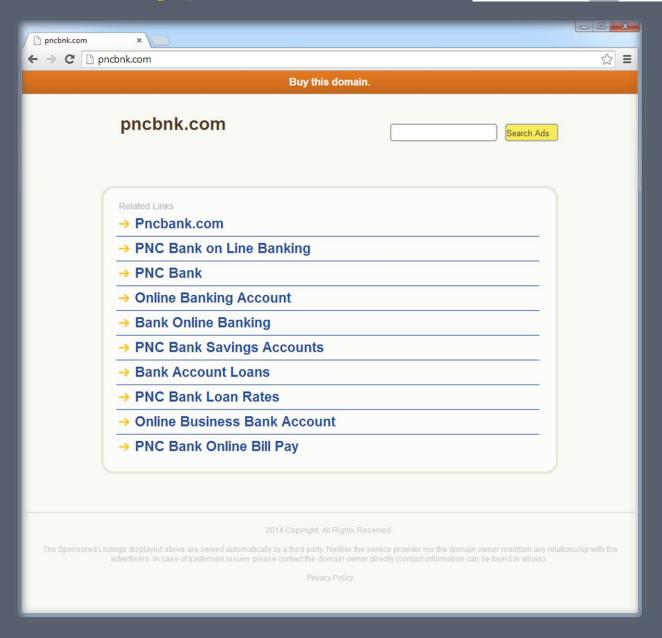
- Why Typosquatting?
- How do we find Typosquatting domains?

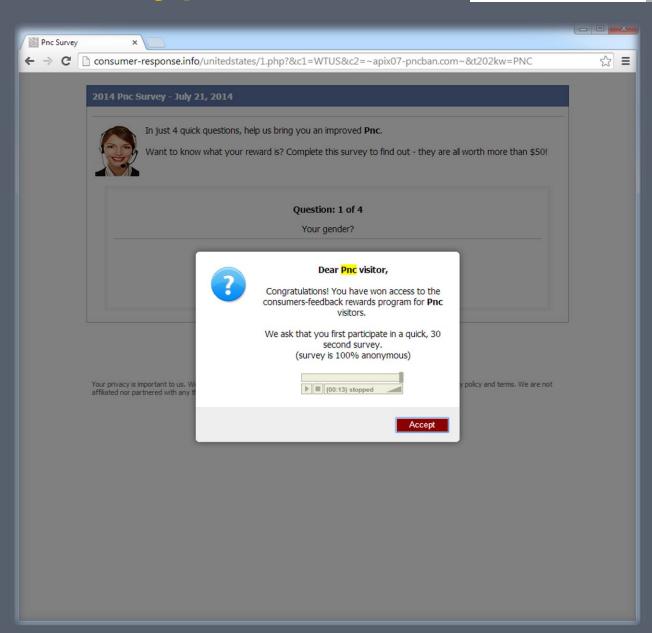
- Trends in Typosquatting
- Possible defenses

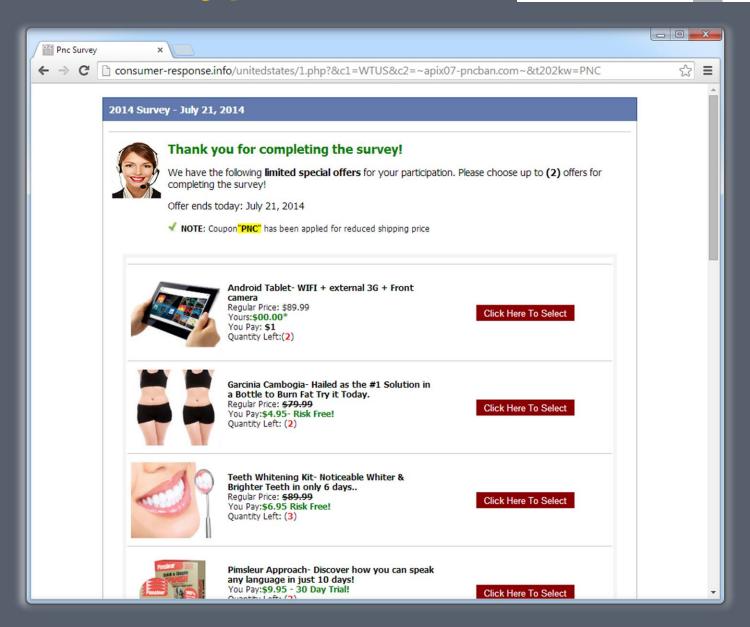
The Target Domain: pncbank.com

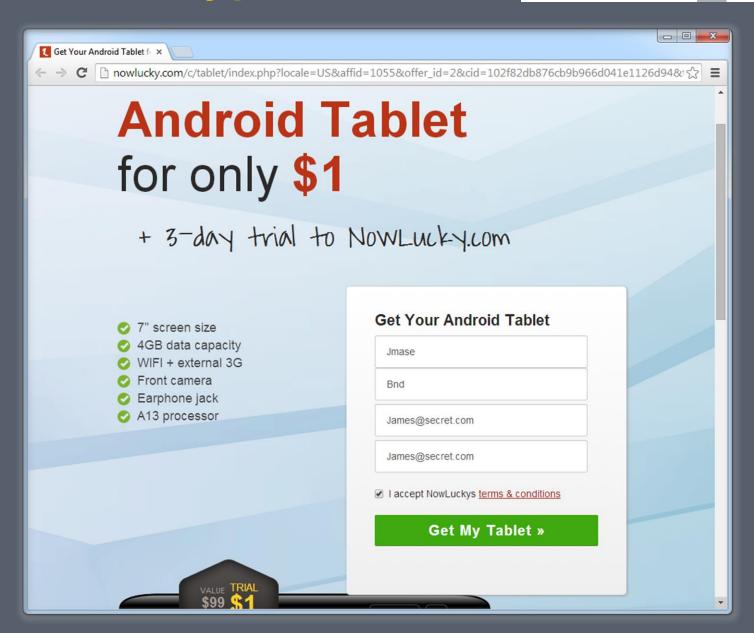


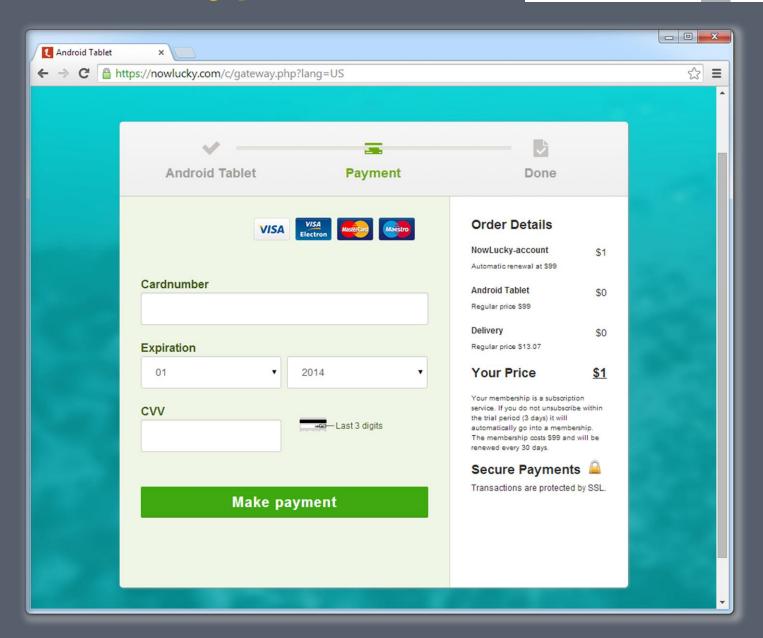
Potential Typo Domain: pncb<mark>x</mark>nk.com

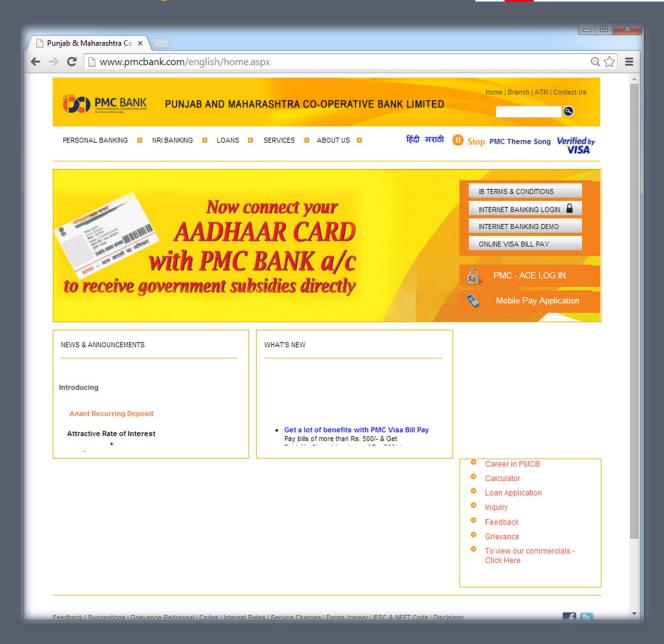






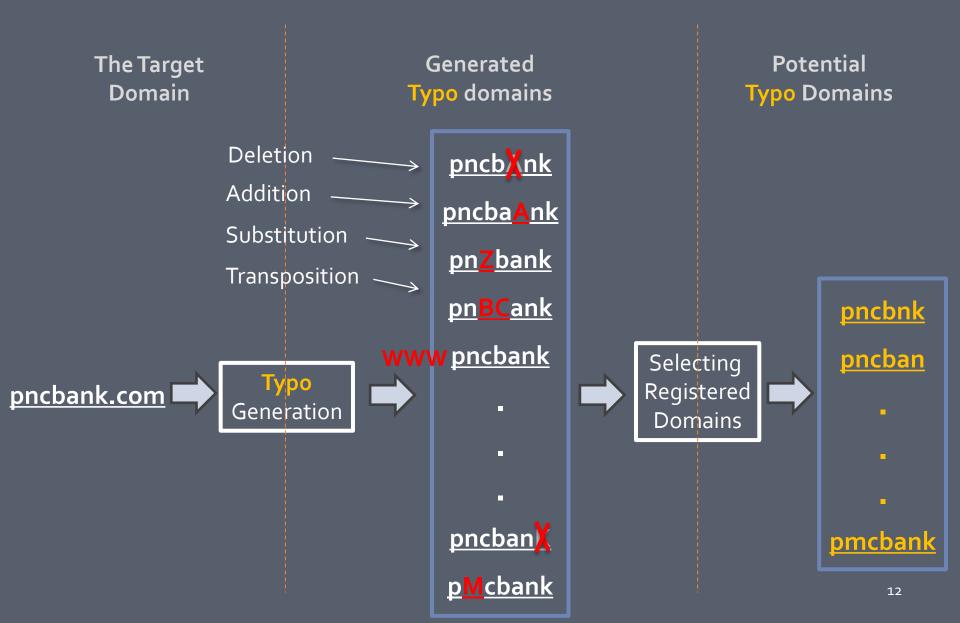




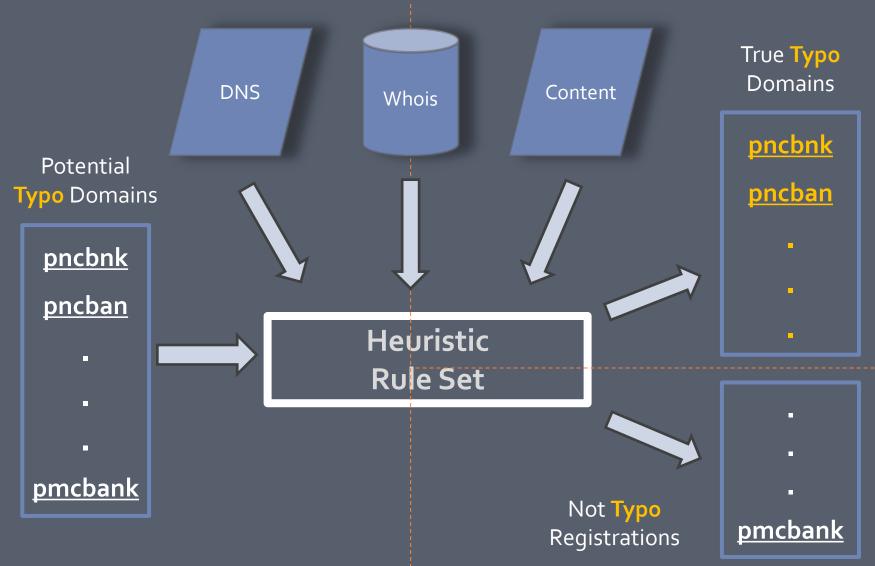


Ecosystem **Target Domain** (pncbank.com) 2 % Brand Domain Competitor Other Ads pmcbank.com Brand Domain

Potential Typo Domains



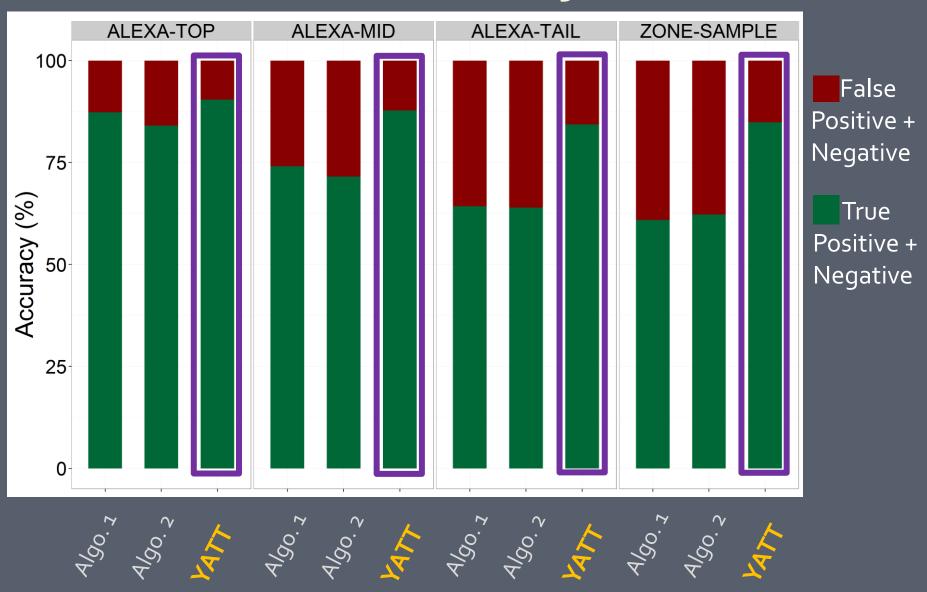
True Typo Domains



Manual Categorization

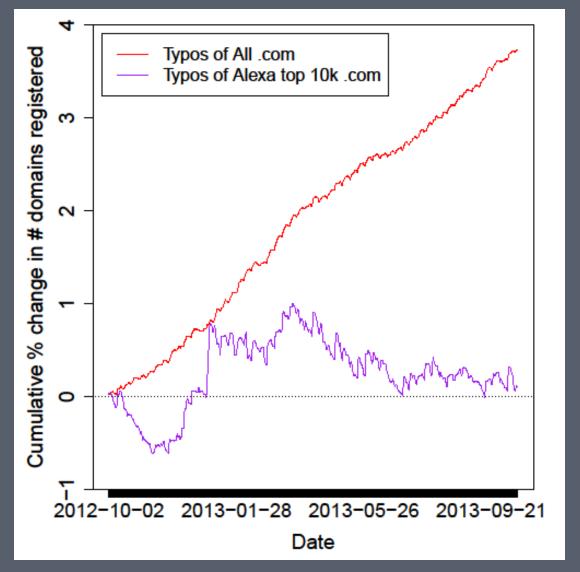


Accuracy



Based on previous work: Algo. 1 and Algo. 2 Ours: YATT

Trends in registration across time

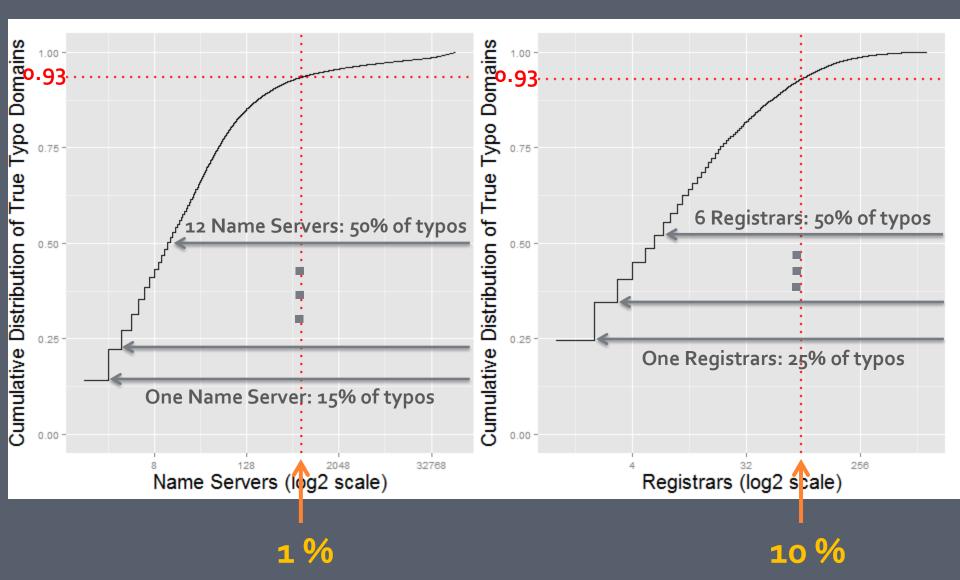


>= 71% of typo domains remained registered for over one year

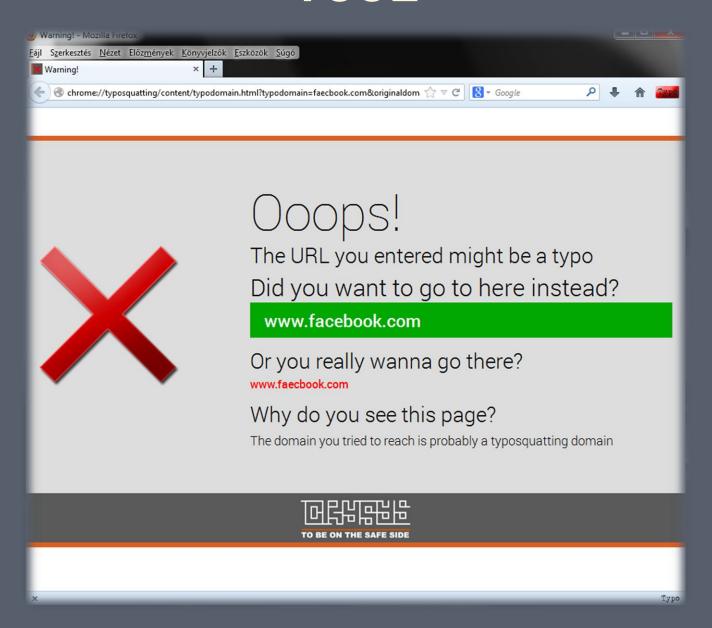
BAD Name Servers

Name Server	True Typos	All .com domains	Typo Ratio
aof.net	5221	6332	82%
citizenhawk.net	8819	12004	73%
easily.net	18281	36890	50%
domainingdepot.com	51854	132864	39%
next.org	9426	30252	31%
domainmanager.com	23493	90929	26%

Infrastructure & Intervention



Tool



Takeaways

- Typosquatters invest significant resources
- Typosquatting steadily increases
- Typosuatting could be contained

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