Privacy Notice and Privacy Policies

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05-436/05-836/08-534/08-734 Usable Privacy and Security

Outline

- Introduction about privacy policy
- Usable privacy notice-privacy label
- Usable privacy notice-privacy icon
- Computer-aided privacy notice-P3P
- Computer-aided privacy notice-DNT
- Computer-aided privacy notice-NLP
- Computer-aided mobile privacy notice
- Summary



Introduction about privacy policy

- Provide information about how data is used
- Allow user to make their own privacy choice

Theory ≠ Practice



policytool.net

How is privacy policy written?

You Tube 💷	how to create privacy policy
What to watch	Filters About 97,600,000 results
BEST OF YOUTUBE Popular on YouTube Music Sports	Image: Non-With Control of State St
 Gaming Education Movies TV Shows News 	Image: Constraint of the second se
Spotlight CHANNELS FOR YOU YouTube Spotlight BabyTVChannel	Create A Privacy Policy For Your WordPress blog by JayTheWebsiteGuy • 3 years ago • 1,580 views In this video, Jay, from JayTheWebsiteGuy.com shows you how to create a privacy policy using a free WordPress plugin. For the

Read it?

3	n e iPho	one Software Update
	3. Transfer. You may not ren sublicense the iOS Software	it, lease, lend, sell, redistribute, or You may, however (a)
		ge 46, nobody's still reading this. I bet only ad the T&Cs in the first place – we might as
	Tony on floor 5 of Apple HQ sr	mells of sardines.
	When someone sends a funny with iLaughed. It's in our job de	email around the offices we have to reply escription.
	how we fixed it? We bought Th	over Apple & Apple studios? Want to know ne Beatles. We have the surviving ones com e looking at ways to reanimate the dead one
	toffee apples. We get fired if w	roducts. Apples, apple juice, apple flapjacks e're caught eating anything without apples ES AND I'M ALWAYS SO HUNGRY.
	believe it happened in 1969, ju	Did it in 2008, then brainwashed you all to ist because we could. If anyone finds out be killed. But no one will ever, ever read this
	(b) you do not retain any copie including copies stored on a co	es of the iOS Software, full or partial, computer or other storage device; and (c) ftware reads and agrees to accept the
1	Save	Decline

http://news.mydrivers.com/1/277/277017.htm

Cost of reading privacy policy

- Time = 244 Hours/Year
- Money= \$3534/Year
- National cost =\$781 Billion

A. McDonald and L. Cranor. The Cost of Reading Privacy Policies. I/S: "A Journal of Law and Policy for the Information Society. 2008 Privacy Year in Review Issue. http://lorrie.cranor.org/pubs/readingPolicyCostauthorDraft.pdf

Improve basic privacy policy

- More readable for human
- Machine-aided ways

Privacy Nutrition Labels



https://cups.cs.cmu.edu/privacyLabel/



Privacy Icons

• Mozilla privacy icons







https://wiki.mozilla.org/Privacy_lcons



P3P

- IE deploys it, but users cannot notice it
- Websites use it to bypass cookie blocking



p3pbook.com



Do not track

- Browser send do not track header
- Website get the header and does not 'track' you



www.marketingpilgrim.com



NLP



https://www.cambridgesemantics.com/semantic -university/nlp-and-the-semantic-web



Discussion

- Compare the different approaches toward better privacy policy.
- Privacy label
- Privacy icon
- P3P
- Do Not Track
- NLP

Mobile privacy policy-I

Privacy fact for Android

- Permission Analys[:]
- Static Analysis



Mobile privacy policy-2

MockDroid

Provide user different choices for privacy information





Mobile privacy policy-3

ADdroid

Provide a potential method to block advertisement tracking for mobile apps



Summary

- More effective privacy policy is still needed
- Factors which make privacy policy more effective:

Incentive to adopt, Enforcement,

Baseline Requirement, Standardized notice format, Machine readable notice format,

Reduce ambiguity, Link to full disclosure,

http://cups.cs.cmu.edu/courses/ppltfal3/slides/131001noticechoice.pdf