

Crit #3

Tech22



HMW allow people to have positive digital interactions
while feeling safe and empowered?



Emilie Burton



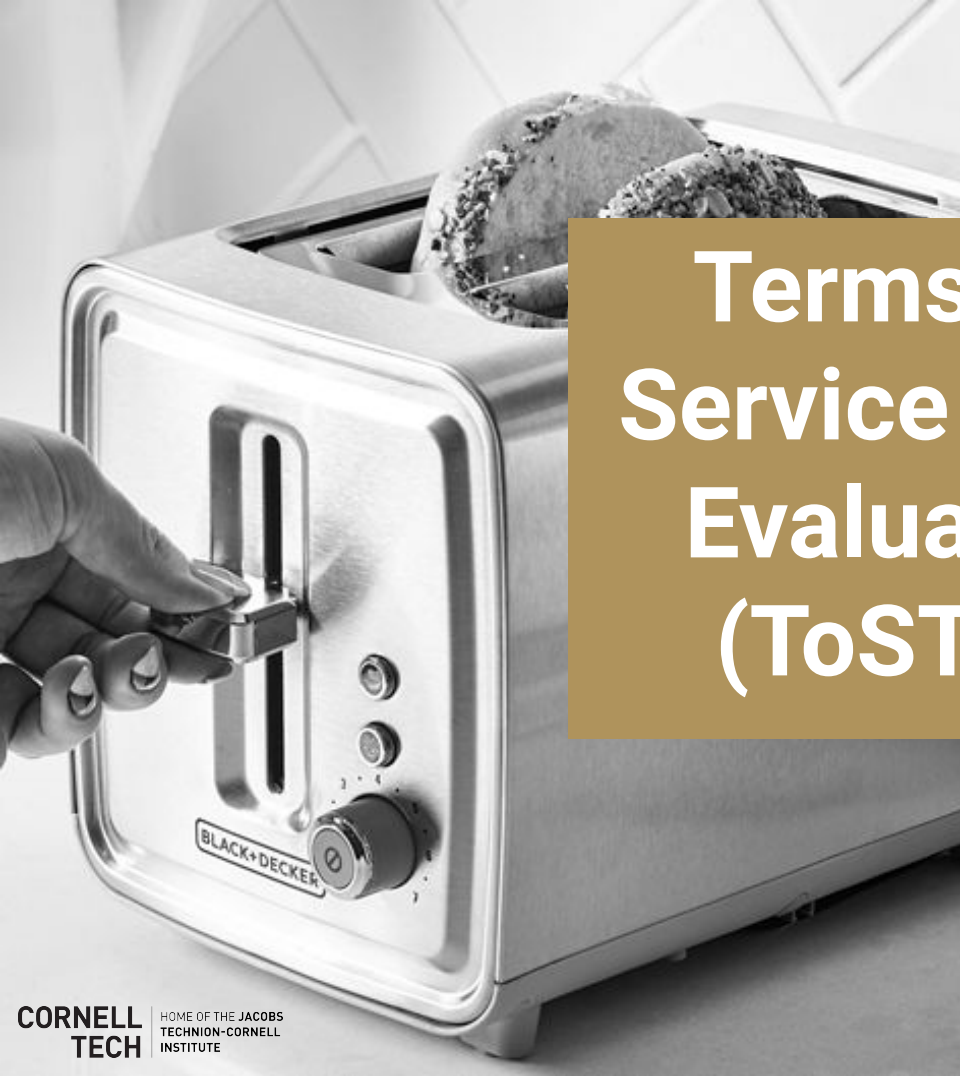
Jerry Tsou



Arief Hutahaeen



Ryan Kim



Terms of Service Text Evaluator (ToSTE)








"I HAVE READ AND
AGREE TO THE TERMS".
DO YOU ACCEPT?



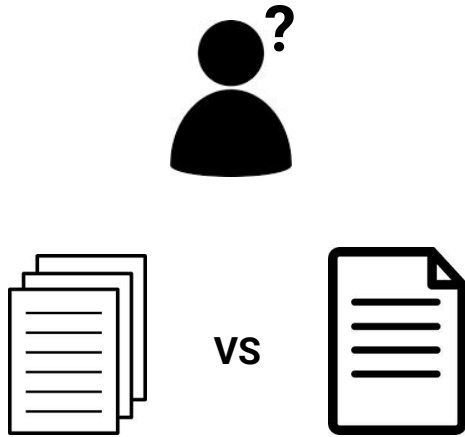
It is a web extension that uses **machine learning** to analyze complicated privacy clauses in **ToS** and presents key points in simpler language to users.

Top 3 Risks and Experiments

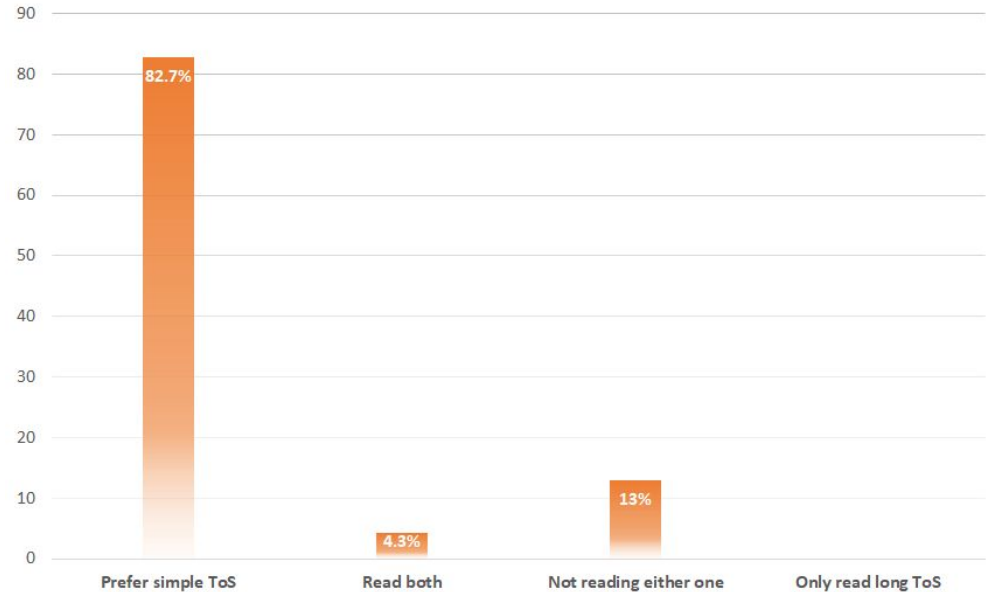
 Key Risks	 Risk Mitigating Task	 Experiment Type	 Experiment Description	 Time
Do users want our product?	Run a paper prototype experiment to gauge potential users on their interest with ToS.	Paper Prototype	Provide users with both sample ToS and output of ToSTE, check reaction	2 days
Company might block our product	More research: check if we can read ToS is image vs text	Small-world pilot	Run a dummy, custom script that can read the text off of a website, detect if the dummy script is blocked.	1 week
Is B2B model feasible?	Find out if startups are willing to pay for ToSTE instead of reading the whole ToS and spend more resources on it	Equivalent experiment	Run an experiment using a free book and a comprehensive note, but the users pay for it.	2 days

Paper ToSTE

Paper prototype - Will People Use ToSTE?

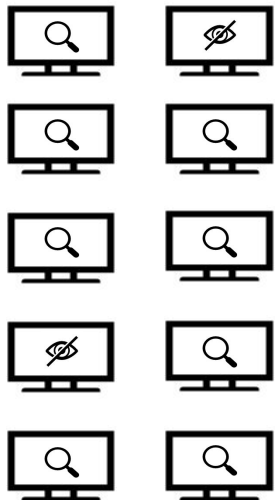


RESULTS



Dummy Script

Small-Word Prototype - can we access the data to build ToSTE?



Python
Dummy
Script

Success!

JS
Browser
Extension

Success!

Main Discoveries

- Python (as a stand-alone script) & JavaScript can read static web-pages without much concern
- Pages with generally longer word counts = privacy
- No common structure for navigation amongst websites
 - Some have ToS, Privacy, and Cookies separate, some have them together - no standardized set of categories of ToS's

Sites Looked at:

Facebook, Google, YouTube ,Instagram, Twitter, Amazon
Netflix, New York Times, Spotify, Cornell Tech

Dummy Script: Results (pt.2)

What are some remaining concerns or insights?

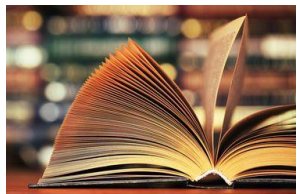
Average Word Counts on top 3 categories of ToS

	Python	JavaScript
Privacy	4069	4015
General ToS	3985	3929
Data	3350	4346

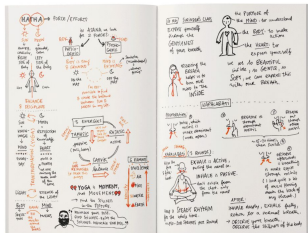
Book Experiment

Equivalent Experiment - Is B2B model feasible?

Free Book



Note with a price



Startup 1

Read **none of them** if the content is about terms of service.



Startup 2

- Read **none of them** if the content is about terms of service.
- Interested in **generating ToS** instead of reading it



Startup 3

- Read **none of them** if the content is about terms of service.
- Only trust law firm on generating and reviewing ToS
- Interested in summarizing ToS for users

New Idea: Can ToSTE help to improve conversion rate, encouraging people to sign up for the service?

Thank You

HMW allow people to have positive digital interactions **while**
feeling safe and empowered?



Emilie Burton



Jerry Tsou



Arief Hutahaeen



Ryan Kim

Appendix

Python results

PYTHON	Conditions	EU-US-Swiss	Privacy	Cookies	Copywrite	Takedown	Data	Platform
Amazon	4131	1078	3416					
Google	2049		4316					
NYTimes	3914		5286	694				
Youtube	4436				598	526		
Cornell Tech	399		1511					
Instagram	3198						2252	2257
Spotify	7655		4834		410			
Facebook	4182			1799			4447	
Netflix	4144		4044					
Twitter	5742		5073	1812				
AVERAGES	3985	1078	4069	1435	504	526	3350	2257

Appendix

Javascript results

JAVASCRIPT	Conditions	EU-US-Swiss	Privacy	Cookies	Copywrite	Takedown	Data	Platform
Amazon	4102	1091		3353				
Google	2023			4302				
NYTimes	3872			5182	687			
Youtube	4420					600	531	
Cornell Tech	395			1402				
Instagram	3172							4286 2231
Spotify	7592			4806		408		
Facebook	4163				1792			4405
Netflix	4110			4005				
Twitter	5441			5052	1783			
AVERAGES	3929	1091		4015	1421	504	531	4346 2231