USABLE PRIVACY. ORG the usable privacy policy project







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Existing Legal Landscape

A notice and choice regime

Notice and Choice

Notice and Choice

Practical issues

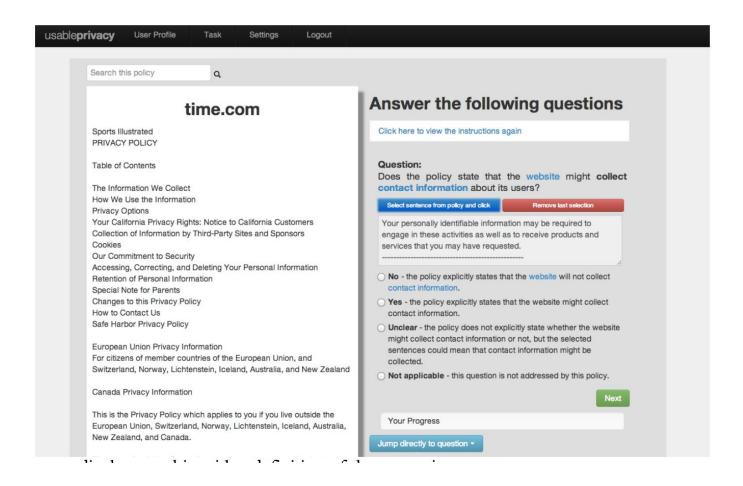
Research Question:

Can we accurately interpret privacy policies?

Accurate Interpretation

"Disagreeable" privacy policies?

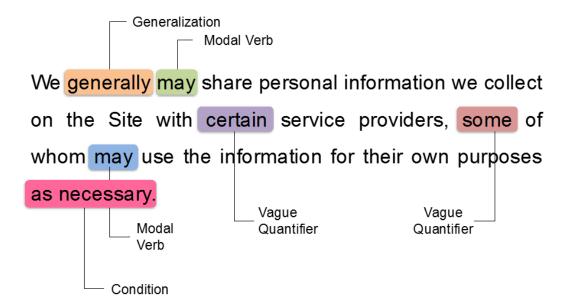
Accurate Interpretation



Categories of Ambiguity

Categories of Vague Terms		
Category	Description	
Condition	Action(s) to be performed are dependent on a variable or unclear trigger	
Generalization	Action(s)/Information Types are vaguely abstracted with unclear conditions	
Modality (including modal verbs)	Vague likelihood of action(s) or ambiguous possibility of action or event	
Numeric quantifier	Vague quantifier of action/information type	

Annotated Example



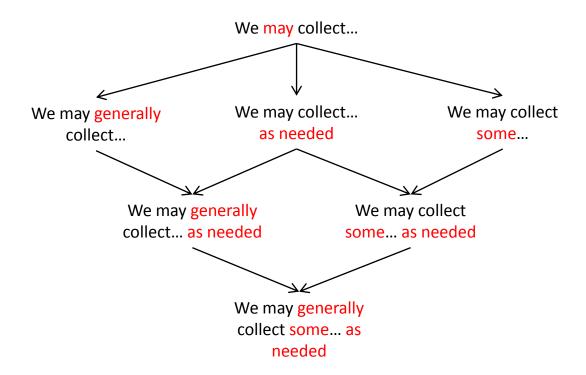
Grounded analysis

Type of Site	Policy	Last policy update
Shopping	Barnes and Noble	05/07/2013
Shopping	Costco	12/31/2013
Shopping	JC Penny	05/22/2015
Shopping	Lowes	04/25/2015
Shopping	Over Stock	01/09/2013
Telecommunications	AT&T	09/16/2013
Telecommunications	Charter Communication	05/04/2009
Telecommunications	Comcast	03/01/2011
Telecommunications	Time Warner	09/2012
Telecommunications	Verizon	10/2014
Employment	Career Builder	05/18/2014
Employment	Glassdoor	09/09/2014
Employment	Indeed	2015
Employment	Monster	03/31/2014
Employment	SimplyHired	4/21/2010

Taxonomy from Grounded Analysis

Category	Examples of Vague Terms
Condition	depending, necessary, appropriate, inappropriate, as needed
Generality	generally, mostly, widely, general, commonly, usually, normally, typically, largely
Modality	may, might, can, could, would, likely, possible, possibly, unsure, often
Numeric Quantifier	anyone, certain, everyone, numerous, some, most, few, much, many, various

Vagueness Lattice



Paired Comparison Study

For each numbered question, please read each pair of statements, and identify which of the two statements best represents *a more clear description* of the company's treatment of personal information.

- We share your personal information as needed.
- We generally may share some of your personal information.

Bradley Terry Model

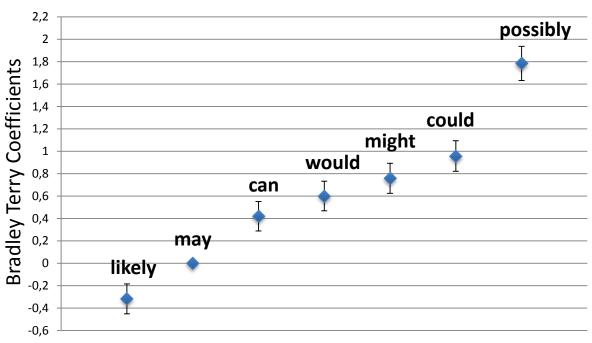
TABLE VII. Bradley Terry Coefficients for Intra-Category Vagueness

Intra-category results

VAGUENESS				
	Vague term	Coefficient	Standard Error	
	as needed	0.00	0.00	
[as necessary	0.01	0.15	
ity	as appropriate	0.70	0.14	
la [depending	0.77	0.14	
iţį	sometimes	1.20	0.15	
Conditionality	as applicable	1.37	0.15	
	otherwise reasonably determined	1.52	0.15	
	from time to time	1.81	0.15	
	typically	-0.38	0.11	
	normally	-0.34	0.11	
	often	-0.15	0.11	
	general	-0.11	0.11	
iţ	usually	-0.04	0.11	
Generality	generally	0.00	0.00	
en [commonly	0.03	0.11	
Ğ	among other things	0.64	0.11	
	widely	0.67	0.11	
	primarily	0.70	0.11	
	largely	1.25	0.13	
	mostly	1.71	0.14	
a .	certain	-0.53	0.22	
N N O	most	-1.21	0.24	
2.	some	0.00	0.00	
Modality	likely	-0.32	0.13	
	may	0.00	0.00	
	can	0.42	0.13	
	would	0.60	0.13	
Ň	might	0.76	0.13	
	could	0.96	0.14	
	possibly	1.78	0.15	

Bradley Terry Model

Modality Category Survey



Relative vagueness of modality vague terms

Applications to Improve Clarity

- Technical tools: NLP/ML to scan and extract vague language for improvement and enforcement
- Linguistic guidelines: minimize/avoid combinations with generalization terms and, if using terms, favor those with lower BT coefficients
- Reporting framework: public reporting of scores to encourage ratchet effect

Notice and Choice

Legal issues

Regulating Online Privacy / Remedying Privacy Harms

Individuals and the FTC perceive online privacy harms that warrant redress

- When <u>individuals</u> experience perceived wrongs, they litigate
- When the <u>FTC</u> perceives commercial practices that cause significant harm, they bring enforcement actions

Research Question:

Whether notice and choice theory aligns with the actual harms that consumers / users experience

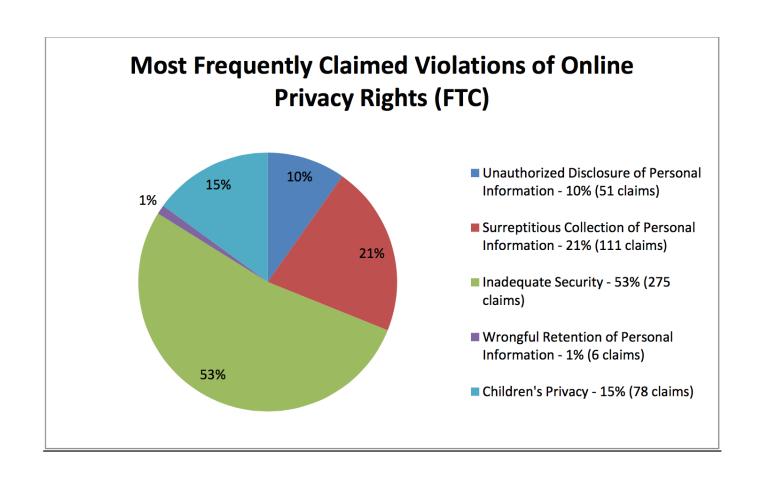
Universe of Online Privacy Litigation

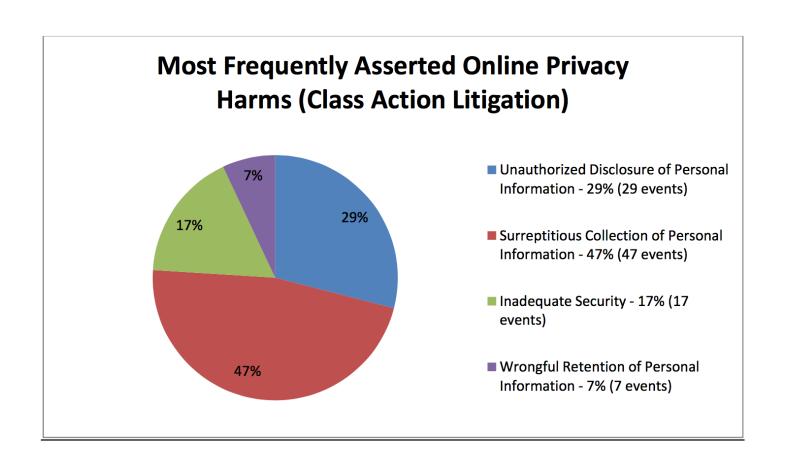
165 Class Action Cases

 116 FTC Enforcement Complaints Relating to Privacy

- If wrongs litigated in the real world reveal the most important privacy harms that consumers experience
- Then, four types of claims appearing in both private litigation and public enforcement with respect to personal information are most important to consumers

- Unauthorized <u>disclosure</u> of personal information
- Surreptitious <u>collection</u> of personal information
- Failure to <u>secure</u> personal information
- Unlawful <u>retention</u> of personal information





Inside or Outside the "Zone of Effectiveness" for Notice and Choice?

- So, if wrongs litigated in the real world reveal areas where the notice and choice framework may or may not be effective to protect us online
- Then, notice and choice <u>may</u> or <u>may not</u> be effective to address perceived harms

Inside or Outside the "Zone of Effectiveness" for Notice and Choice?

- Some of the perceived harms are not capable of resolution ex ante by notice and choice
- While others may be meaningfully addressed through advance notice

Areas Where Notice and Choice May

	Satisfy User Autor	nomy
Privacy Harm	Conditions for Adequacy	Why Avoids the Harm by

Providing Meaningful Consent

Unauthorized disclosure of

Accurate and detailed descriptions of data sharing Gives notice of what and when information is shared, with whom it is shared and how recipient will use information

personal information

Transparent data collection

Provides notice of all methods of collection and all types of data collected

personal information

information

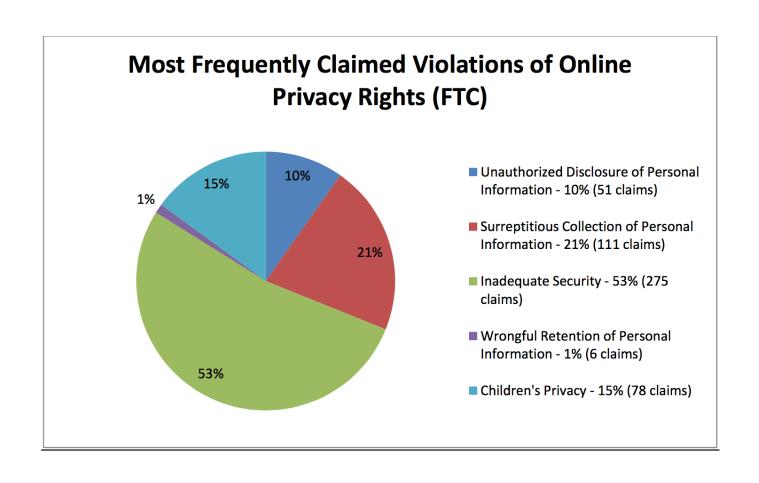
Surreptitious collection of

Unlawful retention of personal Durational specificity – No silence on data retention

Specifically states a right to retain indefinitely or establishes a time limit on data retention

Areas Where Notice and Choice <u>Cannot</u> Possibly Satisfy User Autonomy

Privacy Harm	Conditions for Inadequacy	Why Cannot Avoid the Harm
Unauthorized disclosure of personal information	Breach of commitments made in written terms and policies; straying beyond what is disclosed in the notice	Notice and choice cannot resolve the problem of broken privacy promises
Inadequate security of personal information	Exceeding baseline standards for security that cannot be waived or disclaimed	Notice itself does not keep personal information technically secure
Unlawful retention of personal information	A "mismatch" between stated duration and business need; vagueness or permissiveness regarding storage duration	Despite stating a period of retention, users perceive "unreasonable storage durations" as a harm



Another Aspect of Research

Grading Privacy

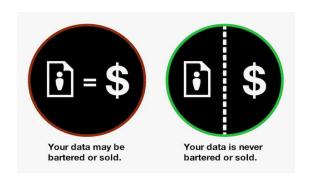
Another Aspect of Research

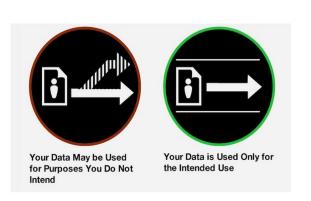
"Rating Indicators"

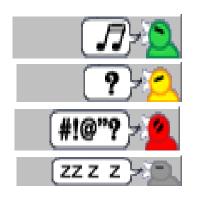
Research Question:

Can we identify the legal and policy criteria necessary for the development of meaningful and successful privacy rating indicator systems?

Examples of prior and current attempts at rating indicators:









The "ESRB Privacy Certified" seal signifies that a general audience website complies with global privacy laws and best practices.



The "ESRB Privacy Certified for Kids" seal signifies that a child-directed website or app complies with applicable laws and requirements such as COPPA.



The "ESRB Privacy Certified for Mobile" seal signifies that a mobile app complies with mobile privacy standards and best practices.

Potential deficiencies and obstacles for rating indicators:

- Scoring criteria
 - Selection of grading criteria
 - Weighting of grading criteria
- Interpretation issues
- Rating agent reliability
- Lack of Standardization

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Another Aspect of Research

How to develop meaningful and successful privacy rating indicators

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For more information and copies of the papers:

http://www.usableprivacy.org

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