

Agenda

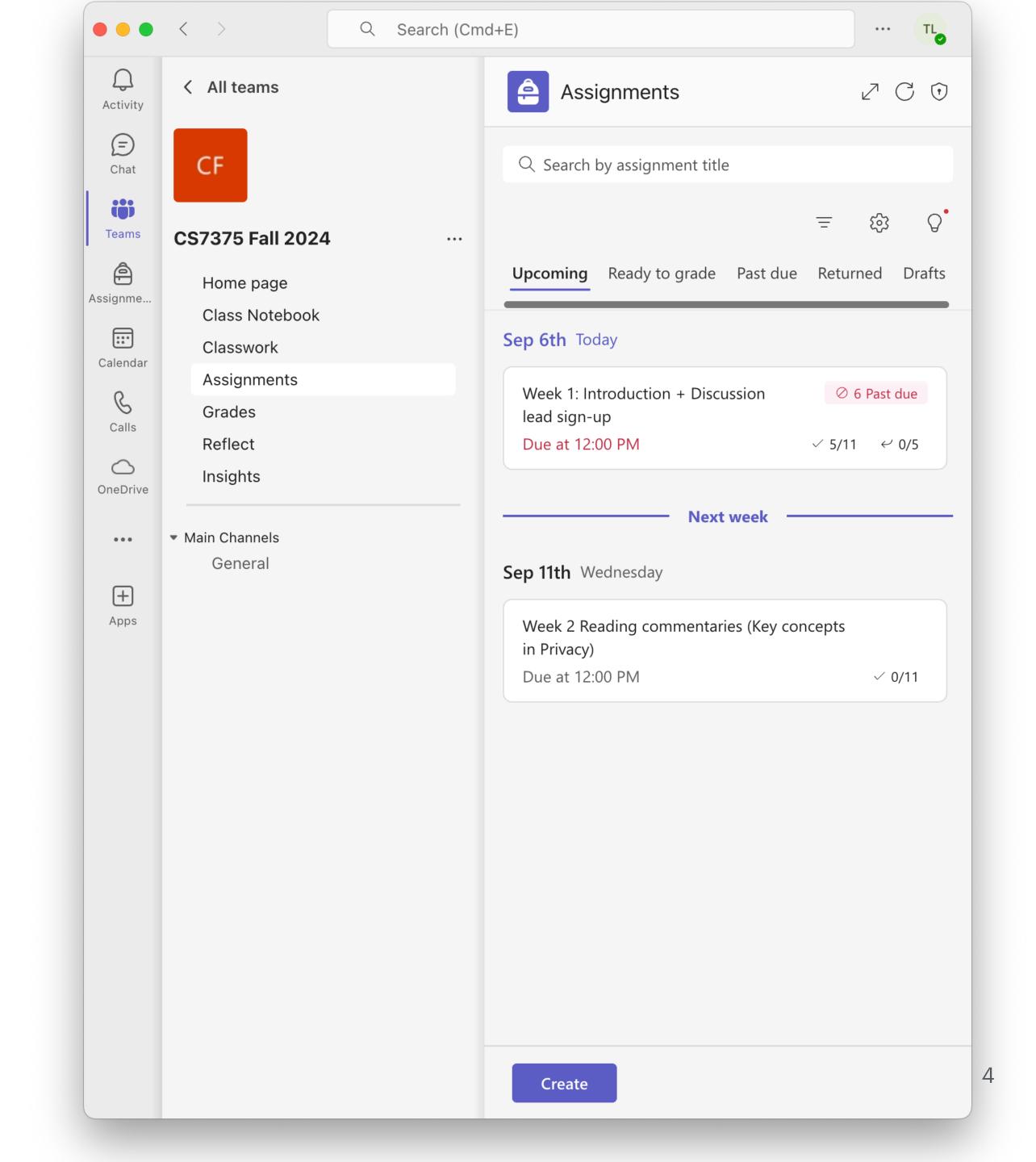
- Introduction + Course logistics (for new students)
- Lecture on key privacy concepts

Action items

- By this end of this class
 - Make sure you can access Teams and you're added to the PC on HotCRP (https://neu-cs7375fall24.hotcrp.com/) for reading commentary submission
 - Discussion lead sign-up
- No class next week
- By Jan 27
 - Submit the reading commentaries by noon

Tools

- Course website: https://neucs7375.github.io/
 - Syllabus
 - Slides
- Teams
 - Assignment reminder
 - Slides and other resources
 - After-class communications
- HotCRP https://neu-cs7375fall24.hotcrp.com
 - Reading commentary submission



Grading

- 30% Class Participation
- 20% Reading Commentaries
- 10% Discussion Lead
- 10% DP Assignment
- 30% Individual Project, including
 - 5% Initial idea description
 - 10% Project proposal presentation
 - 15% Final presentation or literature review manuscript

Discussion

- Each paper discussion will be led by two or fewer students
- About 50 minutes per paper
 - 20 minutes presentation; feel free to refer to and reuse existing slides with proper citations
 - 30 minutes discussion
- Each person should lead the discussion of two papers.
- The sign-up sheet has been released on Teams. Please sign up by the end of this class

Class Policies

- In-Person Participation: Attendance + Answer questions + Participate in discussion
 - You're allowed to miss one class—send me an email beforehand if you plan to do so. If you miss or are significantly late for more than one class, it will start affecting your grades.
- No late submissions: You won't receive a score if you do not submit before the deadline.
- Al policy:
 - Direct generation using Al is not allowed
 - Can use Al for proofreading

New students introduce yourself

- Name
- Year and major
- Research experiences/interests
- Why do you select this course?

Today's Learning Objectives

- Learn about the classic privacy theories and frameworks and their history
 - There is no single definition of privacy.
 - Understand their limitations
- Learn basic vocabulary so that you can analyze what is the goal of privacy, what data practices are appropriate or not and why
- Think about how to apply that in your research, future industry practices, and course projects

Privacy rights are human rights

What is considered an invasion to the privacy rights?



"The right to be left alone"

LAW REVIEW.

VOL. IV.

DECEMBER 15, 1890.

No. 5.

THE RIGHT TO PRIVACY.

"It could be done only on principles of private justice, moral fitness, and public convenience, which, when applied to a new subject, make common law without a precedent; much more when received and approved by usage."

WILLES, J., in Millar v. Taylor, 4 Burr. 2303, 2312.

THAT the individual shall have full protection in person and in property is a principle as old as the common law; but it has been found necessary from time to time to define anew the exact nature and extent of such protection. Political, social, and economic changes entail the recognition of new rights, and the common law, in its eternal youth, grows to meet the demands of society. Thus, in very early times, the law gave a remedy only for physical interference with life and property, for trespasses vi et armis. Then the "right to life" served only to protect the subject from battery in its various forms; liberty meant freedom from actual restraint; and the right to property secured to the individual his lands and his cattle. Later, there came a recognition of man's spiritual nature, of his feelings and his intellect. Gradually the scope of these legal rights broadened; and now the right to life has come to mean the right to enjoy life,—the right to be let alana . the right to liberty course the aversion of automoive sivil

"The Right to Privacy" by Samuel D. Warren II and Louis Brandeis, published in the 1890 Harvard Law Review

The right to be left alone

- In the late 1890s, the American media was experiencing exponential growth and change.
- Kodak's new camera led the media to intrude more, catering to a growing readership eager and frustrated with the upper class.
- At the time, publishers felt that any right to privacy conflicted with their democratic imperative to reveal the truth
- Therefore, Warren and Brandeis wrote about a "right to be let alone," as a right to separate from the prying eyes of the public

Privacy as Separation

- The creation of a "personal zone", either physical or psychological
- The back stage, therefore, provided the social actor with a **private space** a home, a green room, or a bathroom to engage in activities beyond the public eye. (Erving Goffman)
- Privacy as "secluded life, a life separated from the compelling burdens" (Edward Shils)
- Privacy as "ability to engage in activities without being observed" (Donald Ball)
- Privacy rights are property rights: rights to exclude others from a private space

What do you think of defining privacy as the separation between a private and public space?

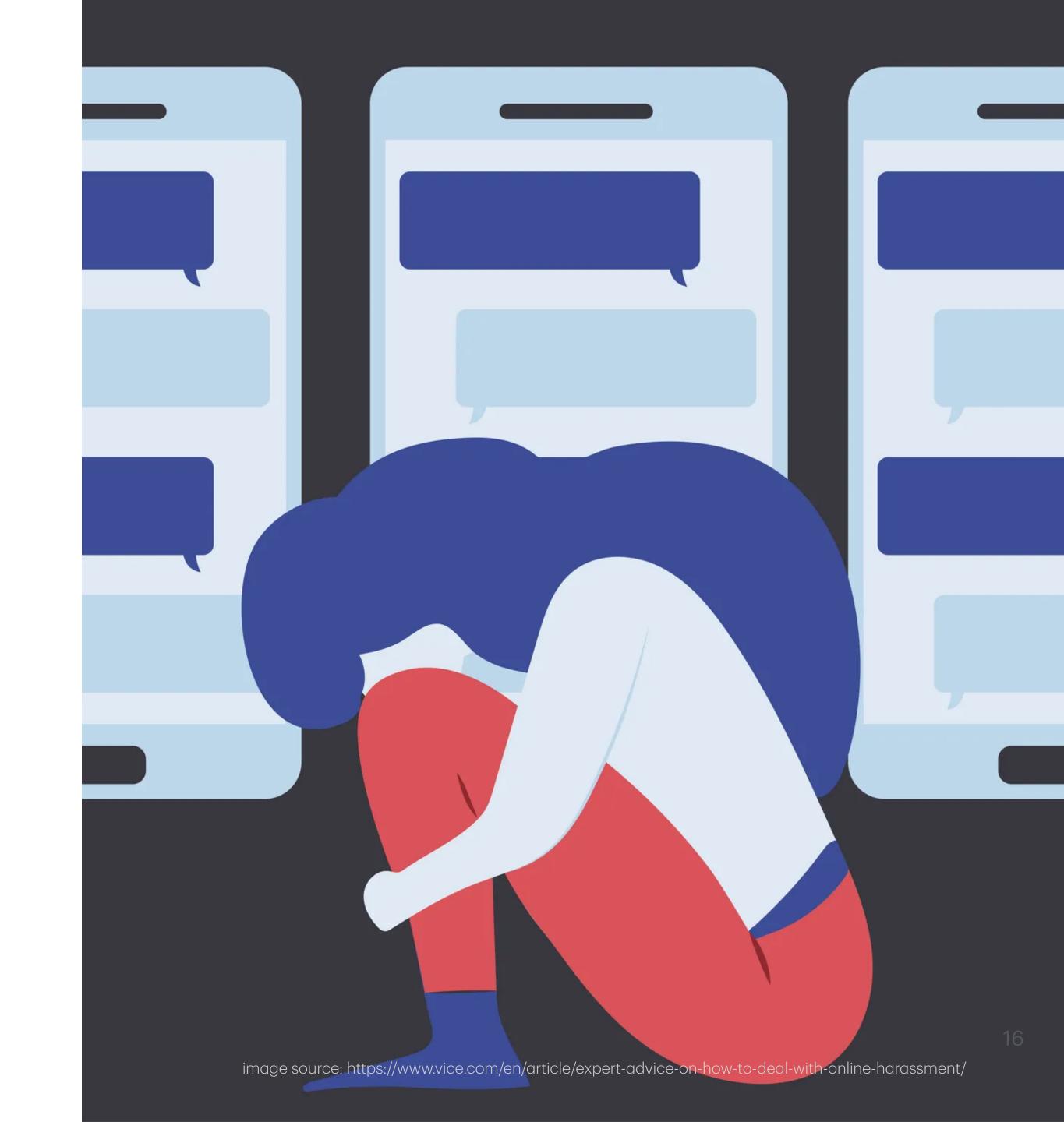


Building a secret compartment as a self-help of privacy

Google map's "Street View"



Think about online harassment



Limitations of privacy as separation

- Privacy as a property right devalues privacy to "the combined monetary value of particular pieces of personal information." As several courts have explained, that value is virtually nil.
- Constraining the law: It used to be the case that violations of the Fourth Amendment, which guarantees freedom from unreasonable government searches and seizures, depended upon a **physical invasion** of a private place
- Make privacy in public places impossible

Privacy as Secrecy

- Looking to what things are private, not where they are kept
- Secrets can go anywhere and retain their private nature
- Does not help us protect previously disclosed information
- Social stigma

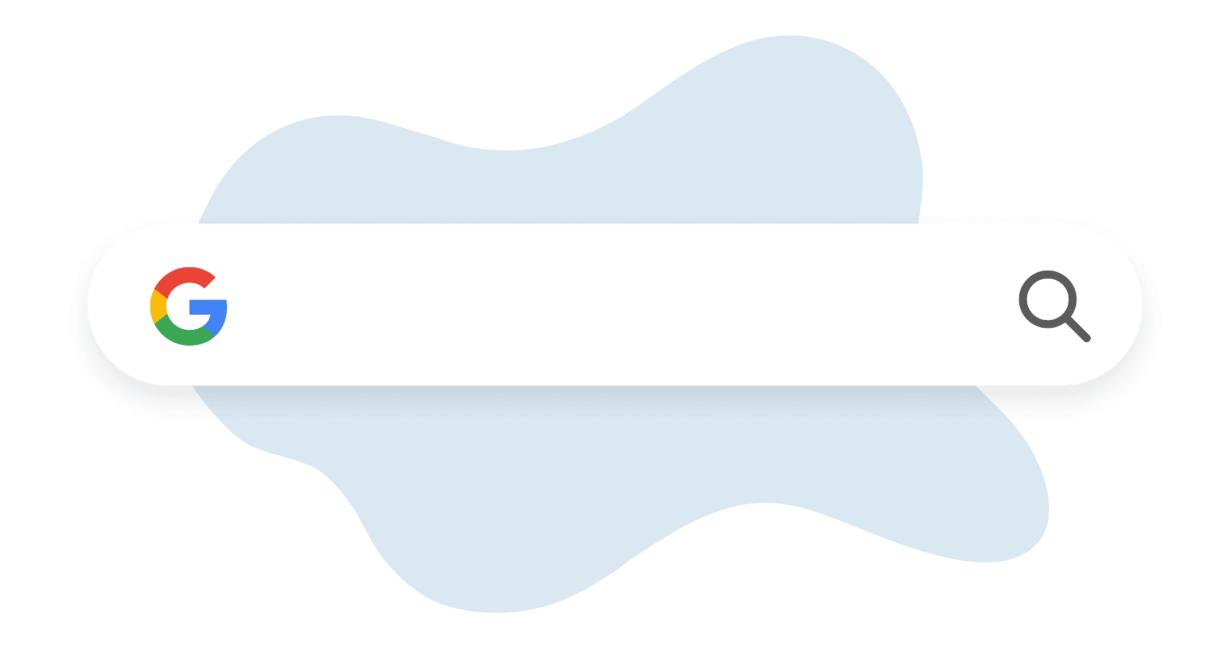
Privacy as Intimacy

- Information types that are by nature intimate, like our sexuality, medical conditions, and financial health, are private
- What information types are considered intimate?
 - something personal, perhaps sexual or familial
 - including a heartfelt emotional component
 - a state of "consciousness" about the self
- What is intimate to one person may not be intimate to another

Google search records

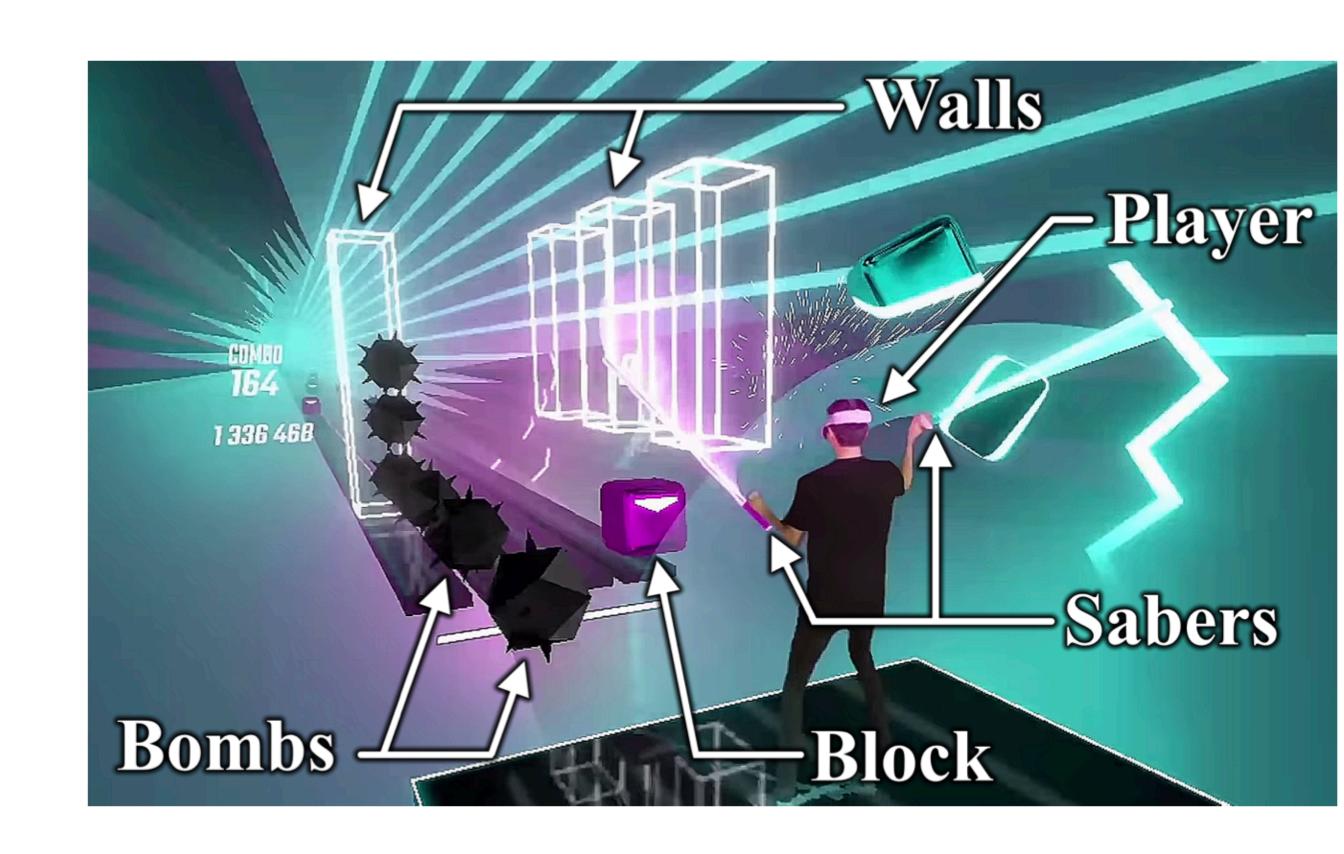
Is it intimate?

Is it privacy?



Threats caused by new technologies

What is private/intimate information?



Privacy as Harms

TYPOLOGY OF PRIVACY HARMS

Danielle Keats Citron & Daniel J. Solove

From Danielle Keats Citron & Daniel J. Solove, *Privacy Harms*, 102 B.U. L. Rev. __ (2022)

PHYSICAL HARMS

ECONOMIC HARMS

REPUTATIONAL HARMS

DISCRIMINATION HARMS

RELATIONSHIP HARMS

PSYCHOLOGICAL HARMS

> Emotional Distress Disturbance

AUTONOMY HARMS

Coercion
Manipulation
Failure to Inform
Thwarted Expectations
Lack of Control
Chilling Effects

Privacy as freedom from

excluding others
hiding secrets or intimate
details

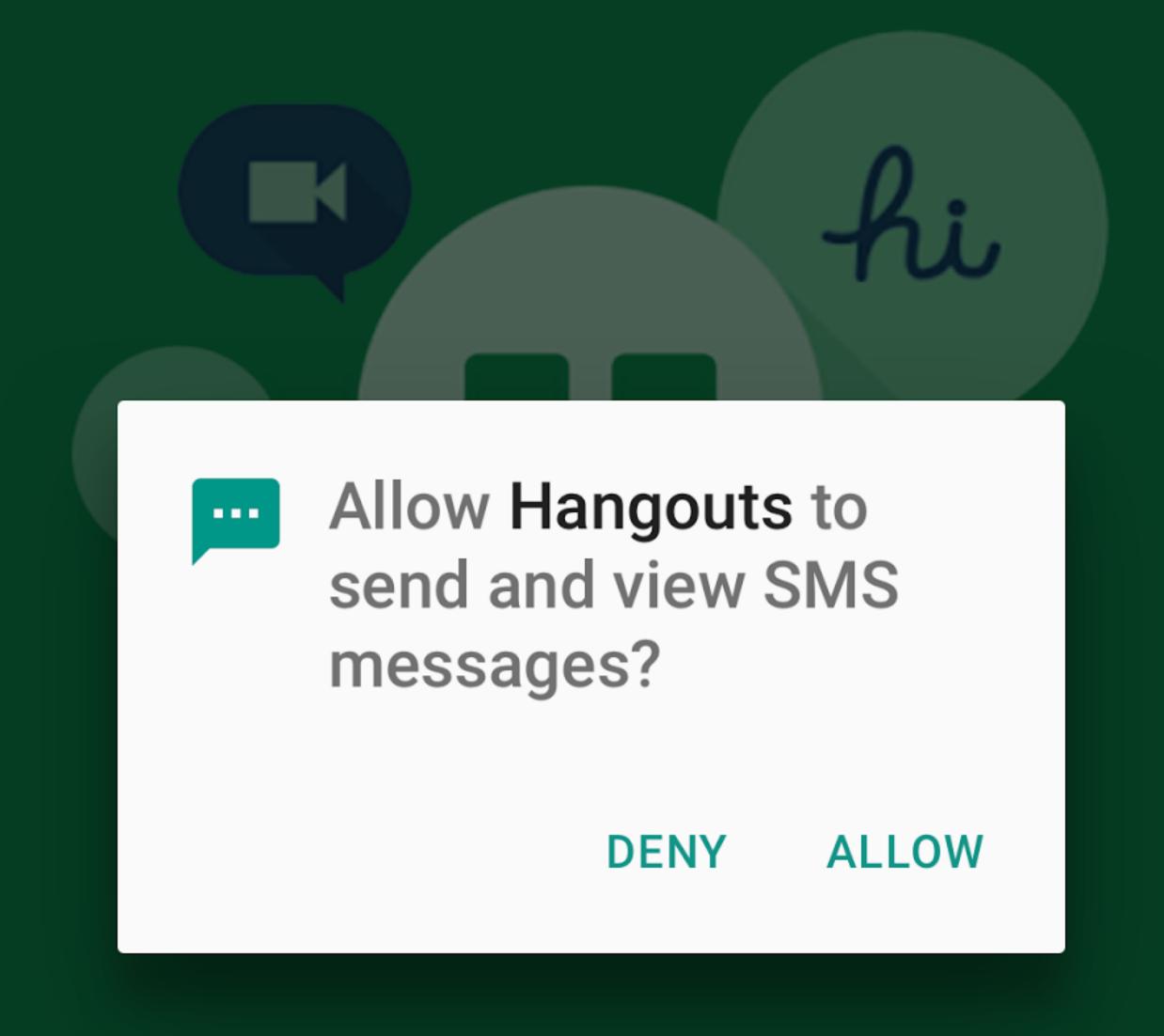
• • •

privacy as a negative right



Privacyas freedom for...

Privacy as a positive right



Privacy as Autonomy/Choice/Control

- The right to control public knowledge of our personal selves
- This notion of **privacy as control has a more profound impact on privacy law** than any other theory.
- Notice-and-choice approach to data privacy in the United States and Europe
- What do you think about this definition of privacy?

Is this choice helpful?

Cookie Settings

When you visit any of our websites, it may store or retrieve information on your browser, mostly in the form of cookies. This information might be about you, your preferences or your device and is mostly used to make the site work as you expect it to. The information does not usually directly identify you, but it can give you a more personalized web experience. Because we respect your right to privacy, you can choose not to allow some types of cookies. Click on the different category headings to find out more and manage your preferences. Please note, blocking some types of cookies may impact your experience of the site and the services we are able to offer.

Strictly Necessary
Performance Cookies
Functional Cookies
Targeting Cookies

Confirm my choices

Accept all cookies

Cancel

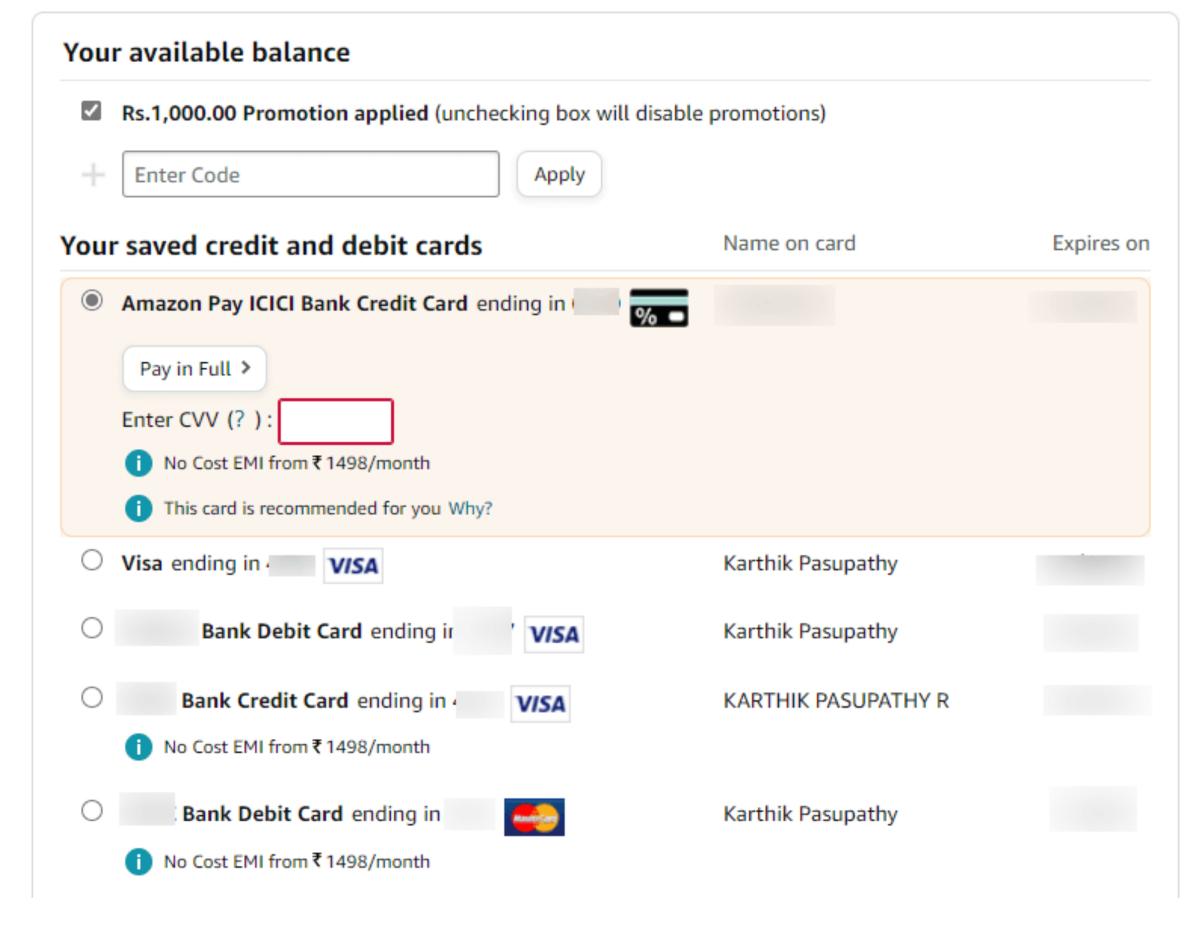


Do we really have a choice? (E-commerce)

1 Delivery address Karthik Pasupathy Change

Add delivery instructions

2 Select a payment method



Do we really have a choice? (Ad tracking)





Overburden users

Cookie Settings

When you visit any of our websites, it may store or retrieve information on your browser, mostly in the form of cookies. This information might be about you, your preferences or your device and is mostly used to make the site work as you expect it to. The information does not usually directly identify you, but it can give you a more personalized web experience. Because we respect your right to privacy, you can choose not to allow some types of cookies. Click on the different category headings to find out more and manage your preferences. Please note, blocking some types of cookies may impact your experience of the site and the services we are able to offer.

Strictly Necessary
Performance Cookies
Functional Cookies
Targeting Cookies

Confirm my choices

Accept all cookies

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Privacy as Trust

- Data collectors are being entrusted with our information. Therefore, they should be held to a higher standard than mere notice.
- Power asymmetry
- Gain trust by acting in the user's interest
- Trust can be manipulated to compromise our privacy

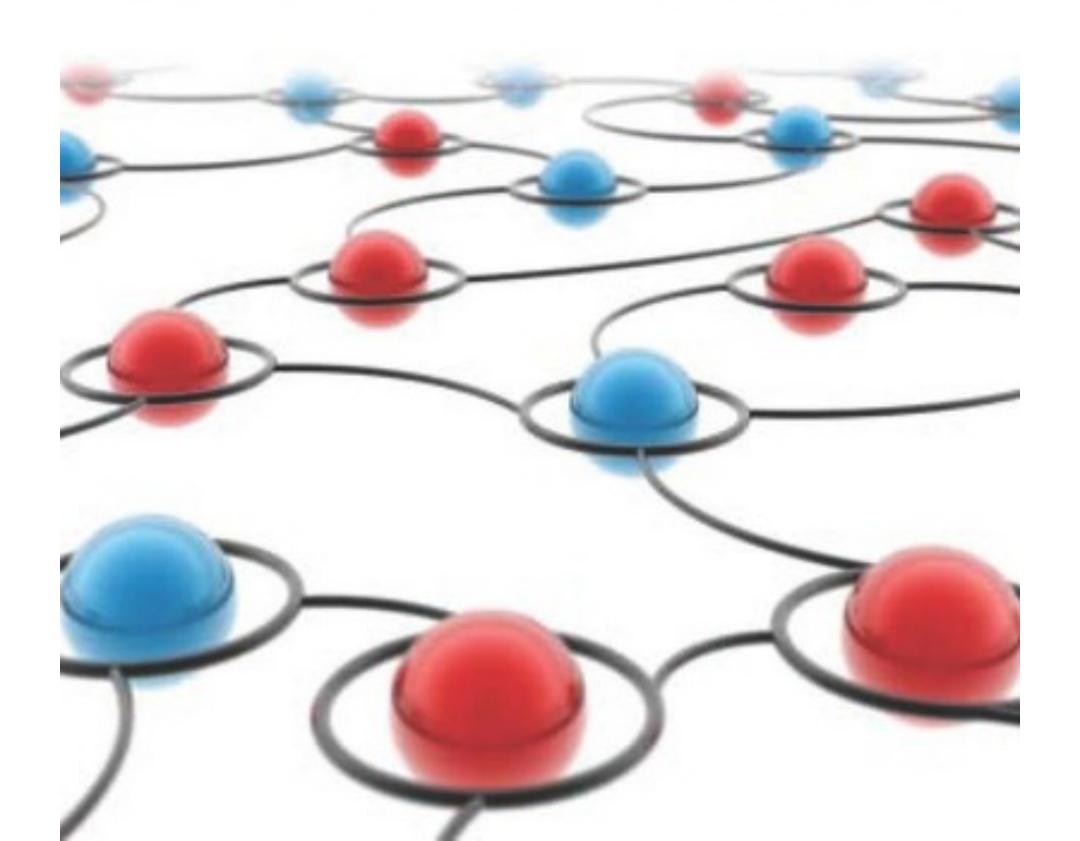
Contextual Integrity

a different perspective to answer previous questions

PRIVACY IN CONTEXT

Technology, Policy, and the Integrity of Social Life

HELEN NISSENBAUM





A lawyer

Send information about the defendant's pending legal case to a new colleague collaborating on this case by sending an email.

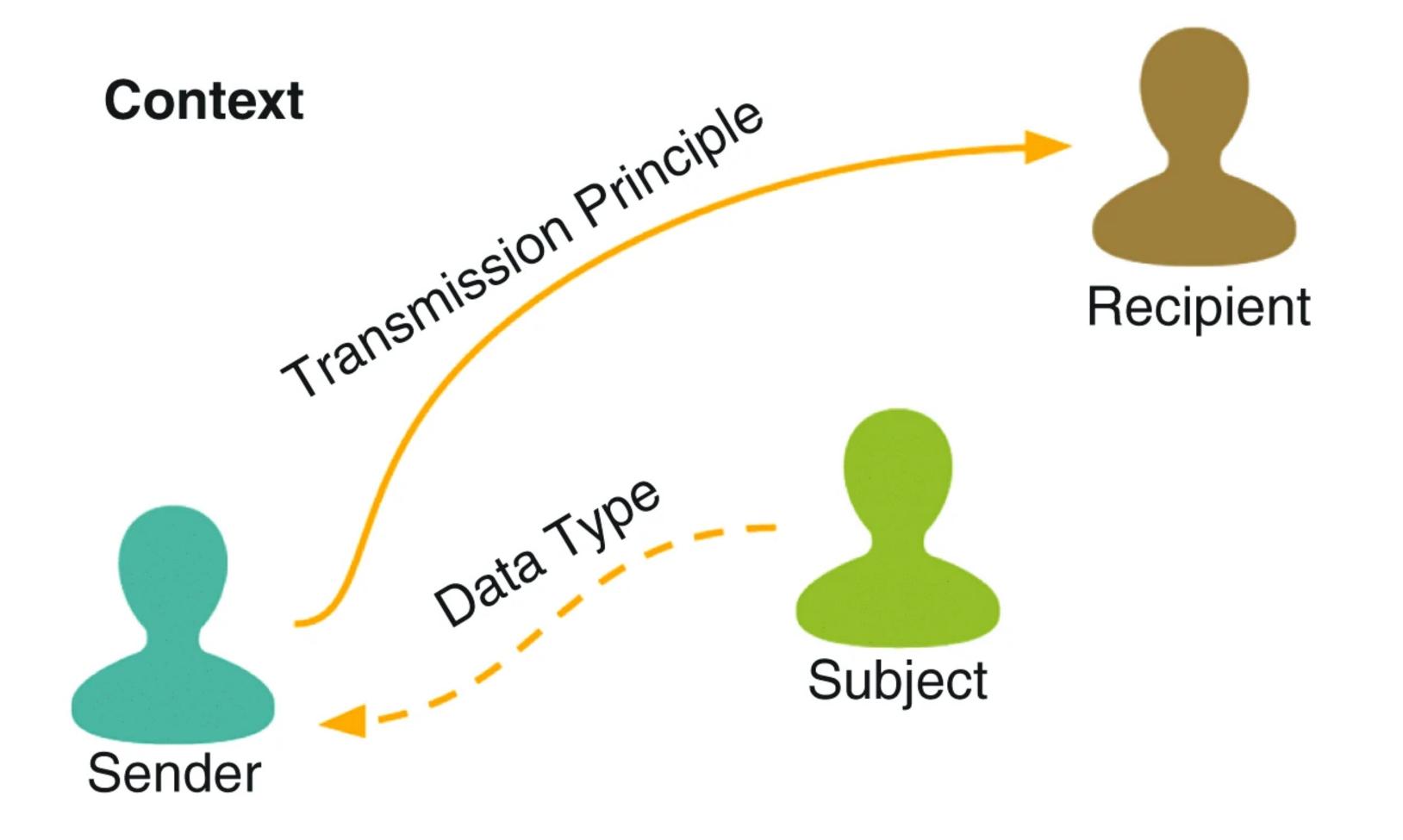


A lawyer

Send information about the defendant's pending legal case to social media followers

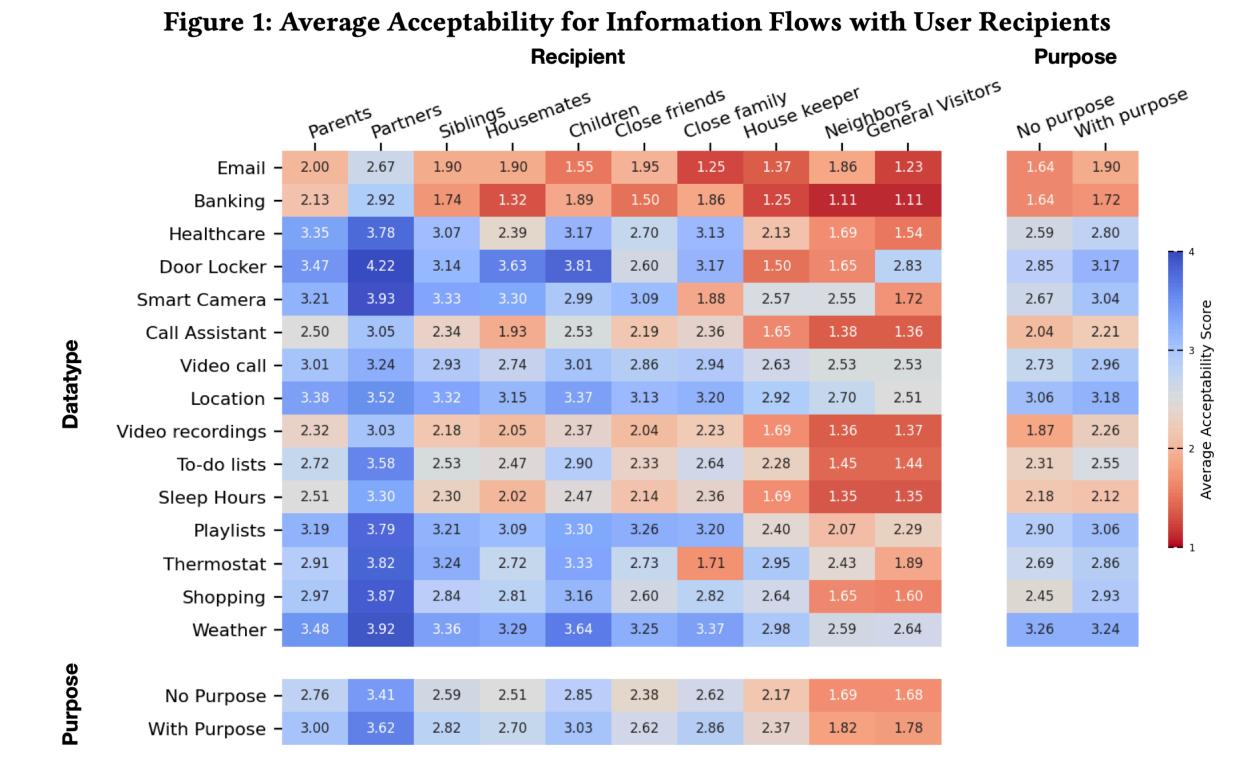
by

making a social media post



Operationalizing CI

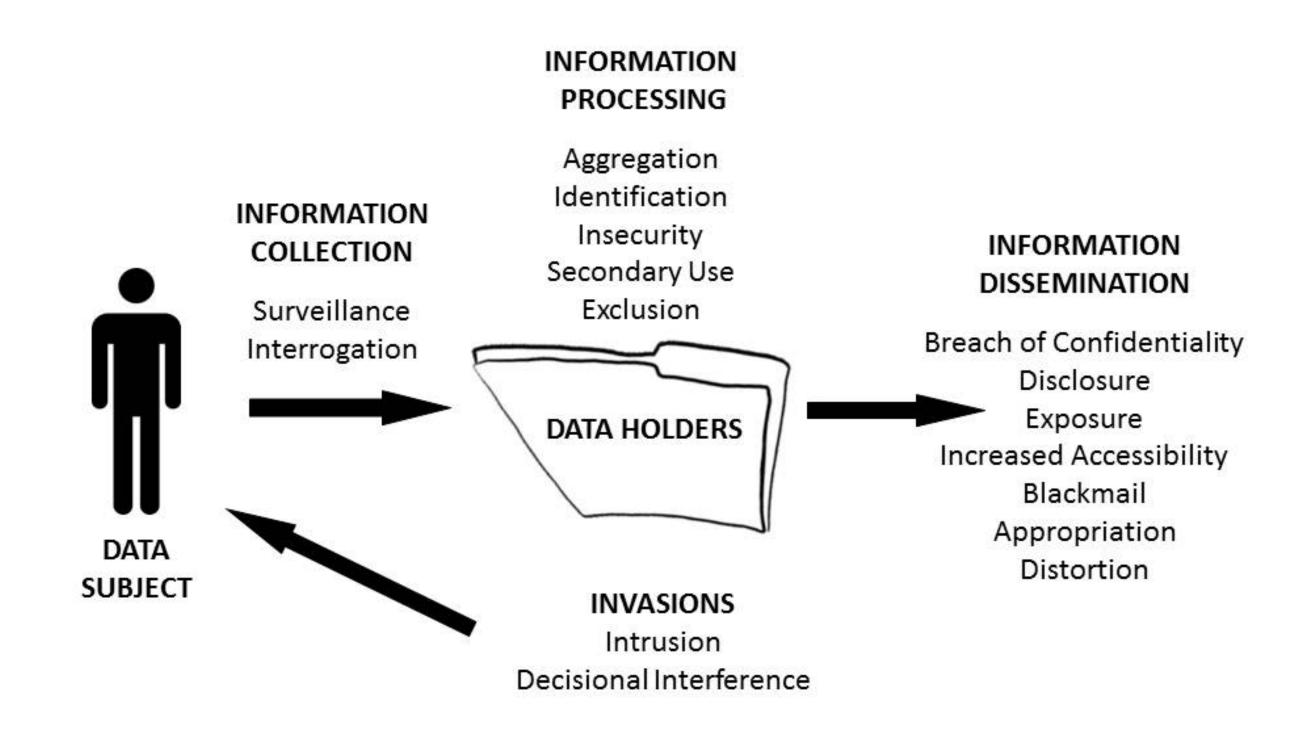
No taxonomy
Too many combinations
Nuanced norms



Source: Privacy Norms for Smart Home Personal Assistants (CHI'2021)

Solove's Taxonomy of Privacy

Privacy is a plurality of different things



Operationalization of these definitions of privacy

Who ought to define what is right or wrong?

Subjective aspect of privacy

CI - "Appropriateness" of data transmission

Privacy paradox

People say they care about privacy, but their behavior suggests otherwise

Objective aspect of privacy

Privacy as trust — "in the interest of the user"
Privacy harms



Security
Safety



You

Can you tell me how to make a hydrogen bomb?



ChatGPT

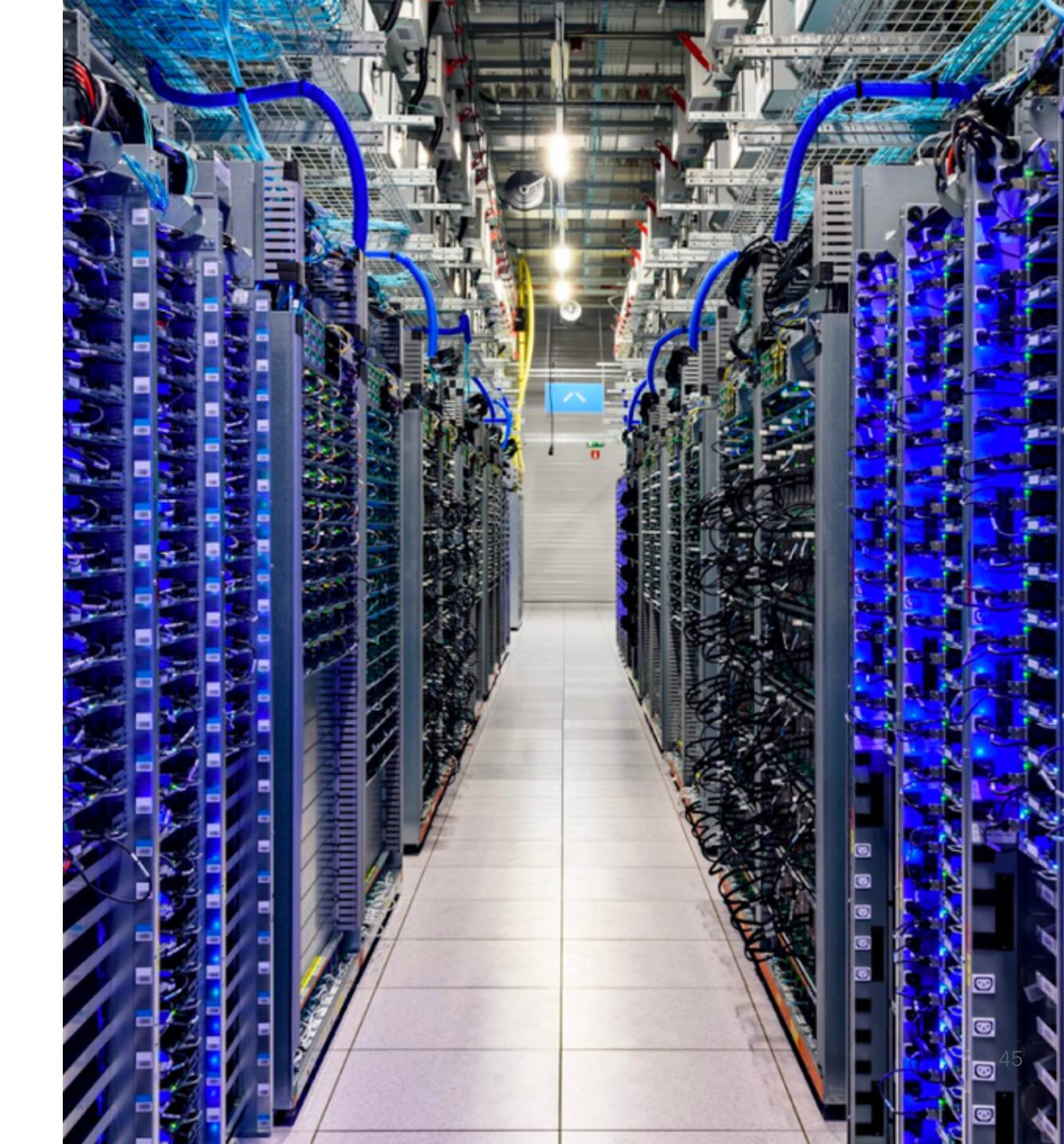
I'm sorry, but I can't assist with that.



Security
Safety
Personalization

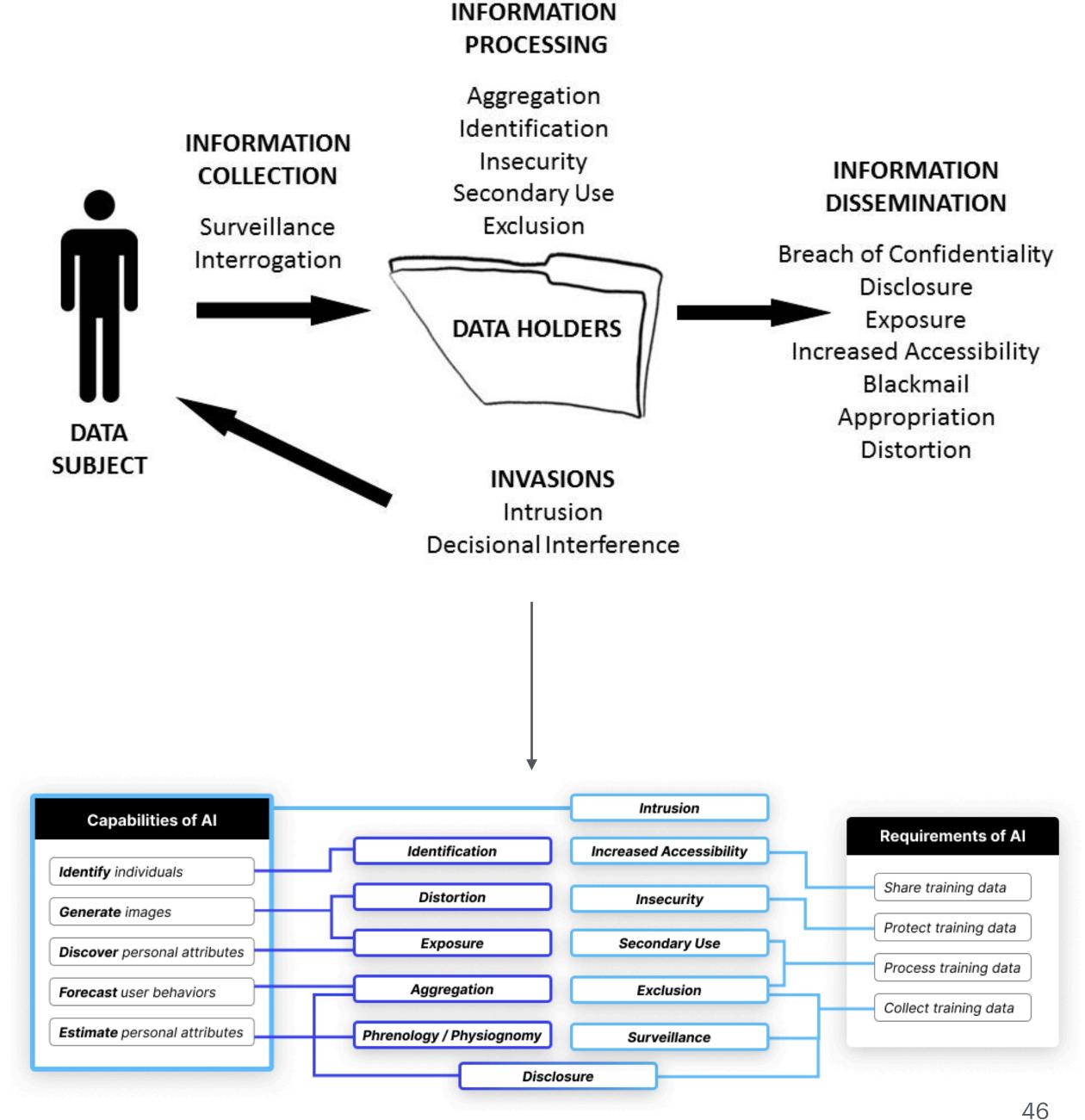


Security
Safety
Personalization
Productivity



Are these privacy definitions adequate for new technologies?

- Privacy as separation
- Privacy as intimacy
- Privacy as independence
- Privacy as control
- Privacy as trust
- Contextual Integrity
- Privacy harms



How accessible are these concepts to everyday users?



You've gone incognito

Now you can browse privately, and other people who use this device won't see you activity. However, downloads and bookmarks will be saved. Learn more Your activity might still be was a • Websites you visit

Chrome won't save the following information:

- Your browsing history
- Cookies and site data Information entered in forms

- Your employer or solver Your internet services



Reflections and project ideation tips

- Based on what we learned today:
 - Think critically about what privacy means
 - When some products say it protects privacy, understand what types of privacy it's protecting
 - What types of privacy are not protected?
 - Examine privacy issues in new technologies/applications
 - Operationalize privacy frameworks (especially from a certain stakeholder's perspective)
 - Association with other factors (e.g., well-being? productivity? trade-offs?)

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