

Privacy:

Time to Admit,
We Don't Understand It

Some Distinctions

O1 Confidential

01 Autonomy

02 Private

02 Personal Identity



Handout with all definitions for today

Making Sense of Privacy

First Set of Distinctions

a. Confidentiality

An ethical duty that prevents certain people from sharing your information with others, unless they have your permission or a valid reason.

b. Privacy

Either, 1) A right to freedom from intrusion into your personal matters, and information about you that helps you to define who you are. Or, 2) An ethical duty of others to refrain from seeking certain personal information about you, or spreading it once they have it.

Making Sense of Privacy

Second Set of Distinctions

a. Autonomy

A person's right of self-government, or the capacity to self-govern. A person's ability to self-govern is ordinarily thought to involve them choosing which actions to take or rules to follow. Some level of outside interference with that choice, or attempts to influence that choice, may diminish autonomy.

b. Personal Identity

The attributes that make you the same you over time, usually those properties to which you feel a special sense of attachment (as opposed to a government ID number, or our living cells, which "identify" us over time). My personal identity is those things I take to "define me as a person" or "make me the person I am."

K-Anonymity



Prof. Latanya Sweeney Harvard University

In the event of a re-identification, an adversary should be able to use "insensitive" data points to narrow the data set to only k people. The higher the more private.

So, for instance, a 2-anonymous dataset would allow an adversary to identify only 2 people in the data set who might share your "insensitive" data.

But what is "sensitive" and what is "insensitive" data?

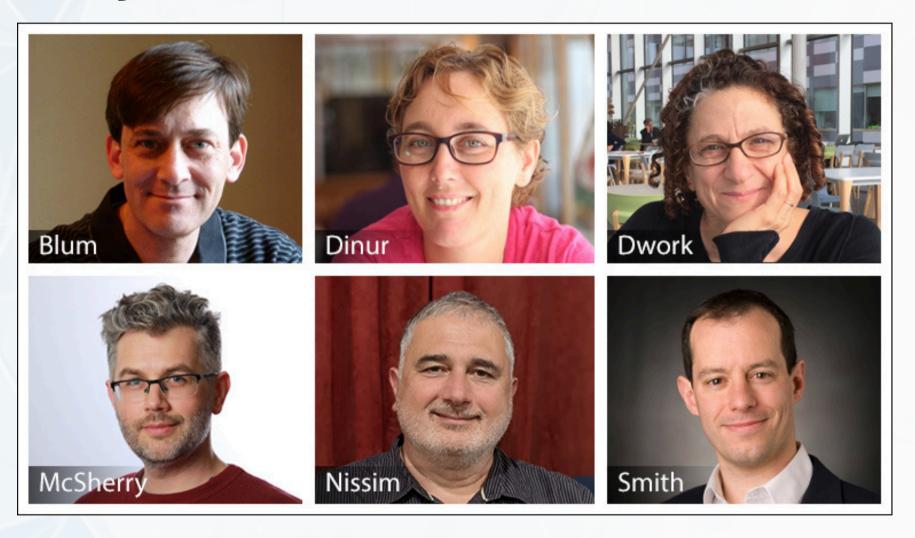
• We would need a theory to tell us that! (Stay tuned.)





K-Differential Privacy

Cynthia Dwork's Research Team



That we should be able to learn no more about a person from an analysis if the person's data was included in the analysis than if it was not included.

Kearns and Roth, Chapter 1

K-Differential Privacy

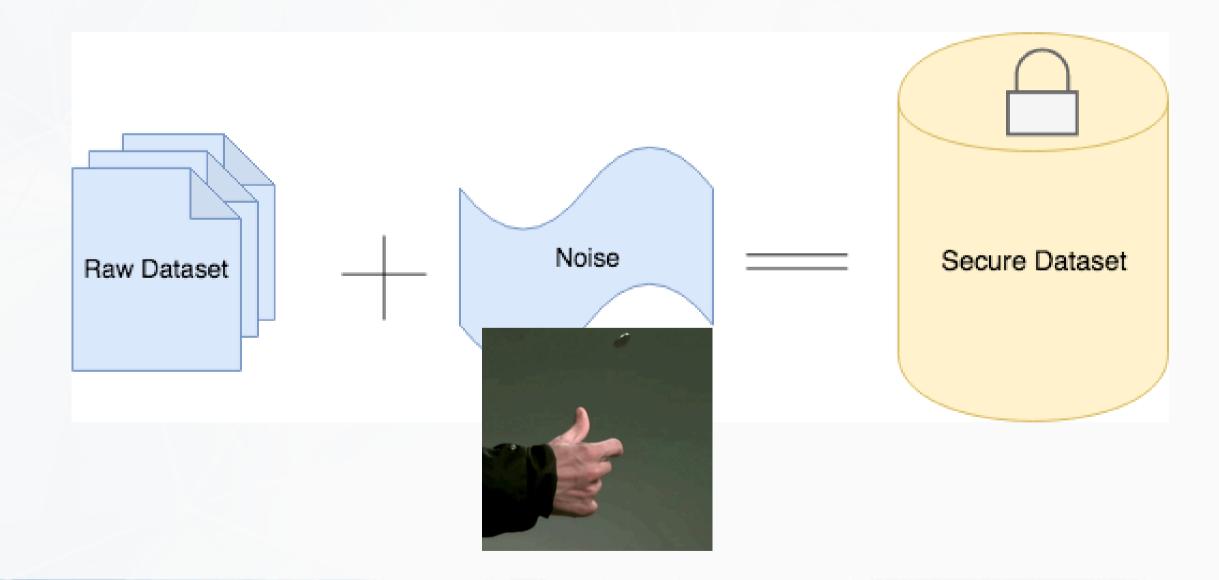
Cynthia Dwork



Dwork's "Differential Privacy"



The probability of any "bad" event that a person wants to avoid is at most k-times more likely due to them being in the data set. The lower the better.



Problems

What does "Autonomy" Protect?

Anything that touches upon your choice-making:

- Medical conditions, esp. if lose choices (pre-existing conditions)?
- Reproductive choice?
- Social and sexual identity?

Nothing that you have chosen to reveal:

- Nothing you've told others?
- Nothing others have asked of you?
- Nothing covered by a signed consent form?
 - The Henrietta Lacks Problem

What alternative theories could there be?

Preview

Alternative Theories

Number 1

Democratic Privacy

Number 2

"Privacy as Power" by Carissa Veliz,
Oxford

Number3

"Privacy as Property"

Problems

Questioning the Alternatives

Number 1

<u>Democratic Privacy</u>

Protects only information about political participation.

Maybe art, literature, science, social change

Number 2

"Privacy as Power"

What if we don't GAF?

What if no-one "uses" our data to control us?

Number3

"Privacy as Property"

Too strong, too weak

Can I "own" info that is about you, too?

EU Law

Problems with GDPR

a. Too Strong

Protects even non-private information

b. Too Weak

Protects information only if the data subject asserts a right

Reasonable Expectation of Privacy (in US Law)

1 Place Based

The Telephone Booth Case

02 Personality Based

Louis Brandeis's 1890 Paper: "inviolate personality"

03 Quality Based

Rare in US Courts (as is the "personality" standard)

04 Quantity Based

GPS Tracker Case

Discussion

A Test Case

Samir and Samuel are married, which everyone knows. They tell their neighbors over dinner that they have a very normal sex life, and are intimate with each other about as much as the average person. One of the neighbors at that dinner tells Samir's boss at a restaurant what Samir has said. Another of the neighbors tells Samuel's boss at a government agency.

Has either of these neighbors violated confidentiality? Write one sentence explaining your answer.

Have they violated privacy? Use a theory of privacy you learned to write one sentence about the case of Samir and one about the case of Samuel, explaining your answers.



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Thank You

From Steven Kelts

Question and Answer...

