data-ppf.github.io mar 26, 2020

lecture 9 of 14: big data, old school

 ${\it chris \ wiggins + matt \ jones, \ Columbia}$

► p/f

- ▶ p/f
- ▶ We are *postponing* the due date for the op-ed until March 23 at 5pm for anyone having to move this week or under similar forms of distress. (Honor system on this—if you need the time, take it.)

- ▶ p/f
- ▶ We are *postponing* the due date for the op-ed until March 23 at 5pm for anyone having to move this week or under similar forms of distress. (Honor system on this—if you need the time, take it.)
- ▶ HW 3 will be due one week *later* on March 31st for everyone.

- ▶ p/f
- ▶ We are *postponing* the due date for the op-ed until March 23 at 5pm for anyone having to move this week or under similar forms of distress. (Honor system on this—if you need the time, take it.)
- ▶ HW 3 will be due one week *later* on March 31st for everyone.
- Homeworks 4 and 5 will now be optional.

- ▶ p/f
- ▶ We are *postponing* the due date for the op-ed until March 23 at 5pm for anyone having to move this week or under similar forms of distress. (Honor system on this—if you need the time, take it.)
- ▶ HW 3 will be due one week *later* on March 31st for everyone.
- ▶ Homeworks 4 and 5 will now be *optional*.
- ▶ We invite all of you to do as much as the homework as you can. But homework 4 and 5 do not need to be submitted unless you wish them to be graded. Your homework grade will be calculated based on the homeworks you have submitted by the end of the term and you will not be penalized for homeworks you've not turned it. (So if you turn in 3 homeworks, your HW grade will be the mean of the three HW scores, etc.)

- ▶ p/f
- ▶ We are *postponing* the due date for the op-ed until March 23 at 5pm for anyone having to move this week or under similar forms of distress. (Honor system on this—if you need the time, take it.)
- ▶ HW 3 will be due one week *later* on March 31st for everyone.
- ▶ Homeworks 4 and 5 will now be optional.
- ▶ We invite all of you to do as much as the homework as you can. But homework 4 and 5 do not need to be submitted unless you wish them to be graded. Your homework grade will be calculated based on the homeworks you have submitted by the end of the term and you will not be penalized for homeworks you've not turned it. (So if you turn in 3 homeworks, your HW grade will be the mean of the three HW scores, etc.)
- ▶ Paper: The central work of the term will remain your final paper or project. Please schedule remote time (zoom, etc.) with your TAs once spring break is over to work through your ideas. The professors will also have some office hours.

student reactions

```
14 privacy
9 consent
4 moral
7 Igo
7 Akimel O'odham / Pima
4 Bode (author of Vice piece)
4 Asimov (mentioned in Igo)
4 COVID
3 Radin
2 "invisibility of the watchers" (from Igo)
```

student reactions: privacy:

I think this is a particularly sensitive topic, given that people likely assume that data collection for disease tracking purposes is a good reason to give up a bit of privacy for the sake of the larger good, and may assume that those collecting the data also have good ethical/moral intentions.

When reading "Assault on Privacy," I noticed this attempt to use data to understand humans and human dynamics is now the shift to shaping them too.

It has become apparent that total privacy in this day and age is impossible unless you are completely disconnected from technology and the internet. So the questions becomes, where do we draw the line?

student reactions: connections:

While reading the Vice article about how to go about tracking for COVID-19, it raises the problems of irreversibility that Igo discusses.

While Bode's Vice piece is in direct response to privacy concerns amid COVID-19, his piece shares Radin's sense of urgency.

Igo highlights on page 234 of her book the fact that the same data that can be used to save someone's life can also destroy it. This concept is also relevant to the article about COVID-19's potential use of cell phone location data to prevent outbreaks

1. post-WWII: tech change: data and information (last week: automating intelligence)

- 1. post-WWII: tech change: data and information (last week: automating intelligence)
- 2. immediate concern: privacy

- 1. post-WWII: tech change: data and information (last week: automating intelligence)
- 2. immediate concern: privacy
 - ▶ (cf., Hannah Wallach in 1st week: big data is scary when it's

- 1. post-WWII: tech change: data and information (last week: automating intelligence)
- 2. immediate concern: privacy
 - ▶ (cf., Hannah Wallach in 1st week: big data is scary when it's
 - granular and

- 1. post-WWII: tech change: data and information (last week: automating intelligence)
- 2. immediate concern: privacy
 - ▶ (cf., Hannah Wallach in 1st week: big data is scary when it's
 - granular and
 - personal)

- 1. post-WWII: tech change: data and information (last week: automating intelligence)
- 2. immediate concern: privacy
 - ▶ (cf., Hannah Wallach in 1st week: big data is scary when it's
 - granular and
 - personal)
- 3. response: (esp. 1970s) first appearance in this class of *people* power around data

- 1. post-WWII: tech change: data and information (last week: automating intelligence)
- 2. immediate concern: privacy
 - ▶ (cf., Hannah Wallach in 1st week: big data is scary when it's
 - granular and
 - personal)
- 3. response: (esp. 1970s) first appearance in this class of *people* power around data
 - ▶ (as opposed to state + corporate power)

- 1. post-WWII: tech change: data and information (last week: automating intelligence)
- 2. immediate concern: privacy
 - ▶ (cf., Hannah Wallach in 1st week: big data is scary when it's
 - granular and
 - personal)
- 3. response: (esp. 1970s) first appearance in this class of *people* power around data
 - (as opposed to state + corporate power)
- ▶ inconvenient truths this week: big data (still) means *labor*:

- 1. post-WWII: tech change: data and information (last week: automating intelligence)
- 2. immediate concern: privacy
 - ▶ (cf., Hannah Wallach in 1st week: big data is scary when it's
 - granular and
 - personal)
- 3. response: (esp. 1970s) first appearance in this class of *people* power around data
 - (as opposed to state + corporate power)
- ▶ inconvenient truths this week: big data (still) means *labor*:
 - hidden, gendered (cf. Poon), "otherized" (cf. Radin) and repeatedly: devalued

► Scientific and mathematical development

- Scientific and mathematical development
- ► Technologies and engineering (not so much in "part 1", more in parts 2/3 of class)

- Scientific and mathematical development
- ► Technologies and engineering (not so much in "part 1", more in parts 2/3 of class)
- Driving forces: money, prestige, resources, Imperial competition... and "truth!"

- Scientific and mathematical development
- ► Technologies and engineering (not so much in "part 1", more in parts 2/3 of class)
- ▶ Driving forces: money, prestige, resources, Imperial competition... and "truth!"
- ▶ how did new capabilities rearrange power? (who can now do what, from what, to whom?) (rights, harms, justice)

postwar rise of digital, personal data

computation accelerates the information deluge

postwar rise of digital, personal data

- computation accelerates the information deluge
 - ▶ Bletchley's crib-searching -> V. Bush's Memex (->WWW)

postwar rise of digital, personal data

- computation accelerates the information deluge
 - ▶ Bletchley's crib-searching -> V. Bush's Memex (->WWW)
- computation, data, and control: 'cybernetics' (in Miller, esp.)

postwar rise of digital, personal data

- computation accelerates the information deluge
 - Bletchley's crib-searching -> V. Bush's Memex (->WWW)
- computation, data, and control: 'cybernetics' (in Miller, esp.)
 - recall the root of cyber is control $\kappa \nu \beta \epsilon \rho \nu' \eta \tau \eta \varsigma$ / kubernetes

privacy is now daily concern

- privacy is now daily concern
 - personal

- privacy is now daily concern
 - personal
 - corporate

- privacy is now daily concern
 - personal
 - corporate
 - govt

- privacy is now daily concern
 - personal
 - corporate
 - govt
- Business Intelligence (BI) in all companies

- privacy is now daily concern
 - personal
 - corporate
 - govt
- Business Intelligence (BI) in all companies
 - maturation of dynamics of data+UI (User Interface)

- privacy is now daily concern
 - personal
 - corporate
 - govt
- Business Intelligence (BI) in all companies
 - maturation of dynamics of data+UI (User Interface)
 - hence "big data" as biz term

- privacy is now daily concern
 - personal
 - corporate
 - govt
- Business Intelligence (BI) in all companies
 - maturation of dynamics of data+UI (User Interface)
 - hence "big data" as biz term
- information deluge+information retrieval (IR)

contemporary context/modern day relevance

- privacy is now daily concern
 - personal
 - corporate
 - govt
- Business Intelligence (BI) in all companies
 - maturation of dynamics of data+UI (User Interface)
 - hence "big data" as biz term
- information deluge+information retrieval (IR)
 - Google's original mission+origin (stay tuned)

information retrieval

leading to

- information retrieval
- surveillance

leading to

- information retrieval
- surveillance

leading to

▶ (promises of) efficiency+control (Luhn)

- information retrieval
- surveillance

leading to

- (promises of) efficiency+control (Luhn)
- discovery/disclosure+control (Igo/Miller)

- information retrieval
- surveillance

leading to

- (promises of) efficiency+control (Luhn)
- discovery/disclosure+control (Igo/Miller)
- prediction (Poon/Radin/Bode) + control (Bode/Poon)

state power

- state power
 - ▶ to reform / encourage consumer protection

- state power
 - ▶ to reform / encourage consumer protection
 - ▶ (but also) to push back on consumer protection advocates

- state power
 - to reform / encourage consumer protection
 - ▶ (but also) to push back on consumer protection advocates
 - spycraft (e.g., as suggested by Watergate)

- state power
 - to reform / encourage consumer protection
 - ▶ (but also) to push back on consumer protection advocates
 - spycraft (e.g., as suggested by Watergate)
 - military data collection/analysis

- state power
 - to reform / encourage consumer protection
 - (but also) to push back on consumer protection advocates
 - spycraft (e.g., as suggested by Watergate)
 - military data collection/analysis
- corporate power

- state power
 - to reform / encourage consumer protection
 - (but also) to push back on consumer protection advocates
 - spycraft (e.g., as suggested by Watergate)
 - military data collection/analysis
- corporate power
 - data brokers (e.g., FICO)

- state power
 - to reform / encourage consumer protection
 - ▶ (but also) to push back on consumer protection advocates
 - spycraft (e.g., as suggested by Watergate)
 - military data collection/analysis
- corporate power
 - data brokers (e.g., FICO)
 - healthcare system (see tension between bioethics and funding)

- state power
 - to reform / encourage consumer protection
 - ▶ (but also) to push back on consumer protection advocates
 - spycraft (e.g., as suggested by Watergate)
 - military data collection/analysis
- corporate power
 - data brokers (e.g., FICO)
 - healthcare system (see tension between bioethics and funding)
 - press

- state power
 - to reform / encourage consumer protection
 - ▶ (but also) to push back on consumer protection advocates
 - spycraft (e.g., as suggested by Watergate)
 - military data collection/analysis
- corporate power
 - data brokers (e.g., FICO)
 - healthcare system (see tension between bioethics and funding)
 - press
- people power

power, reminder

▶ indirect edges among the 3 privacy was, as Francis Sargent, the governor of Massachusetts, put it, "good politics." (and bipartisan!) (Igo)

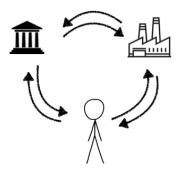


Figure 1: power meme

readings: Igo; Luhn (58); Radin; Bode (optional: Miller (71); Poon)

Igo

Igo: Woke was in

► Feb 23, 1974

But until the day comes when science finds a way of installing a conscience in every computer, we must develop human, personal safeguards that prevent computers from becoming huge, mechanical, impersonal robots that deprive us of our essential liberties.

Igo: Woke was in

- ▶ Feb 23, 1974
- Pres. Richard Nixon "Radio Address About the American Right of Privacy."

But until the day comes when science finds a way of installing a conscience in every computer, we must develop human, personal safeguards that prevent computers from becoming huge, mechanical, impersonal robots that deprive us of our essential liberties.

Balancing of privacy clear

Privacy must be weighed today against the value gained from the collection and availability of information at central points or data banks . . . How much personal information is worth the convenience of a credit card?

▶ testimony in United States Congress Senate Committee on Government Operations Ad Hoc Subcommittee on Privacy and Information, Privacy. 1:651, June 18, 19, and 20, 1974.

1. There must be no personal data system whose very existence is secret.

- 1. There must be no personal data system whose very existence is secret.
- 2. There must be a way for an individual to find out that information about him is in a record and how that information is to be used.

- 1. There must be no personal data system whose very existence is secret.
- 2. There must be a way for an individual to find out that information about him is in a record and how that information is to be used.
- 3. There must be a way for an individual to correct information about him, if it is erroneous.

- 1. There must be no personal data system whose very existence is secret.
- 2. There must be a way for an individual to find out that information about him is in a record and how that information is to be used.
- 3. There must be a way for an individual to correct information about him, if it is erroneous.
- 4. There must be a record of every significant access to any personal data in the system, including the identity of all persons and organizations to whom access has been given.

- 1. There must be no personal data system whose very existence is secret.
- 2. There must be a way for an individual to find out that information about him is in a record and how that information is to be used.
- 3. There must be a way for an individual to correct information about him, if it is erroneous.
- 4. There must be a record of every significant access to any personal data in the system, including the identity of all persons and organizations to whom access has been given.
- 5. There must be a way for an individual to prevent information about him collected for one purpose from being used for other purposes, without his consent.

Business pushes back

Modern technology permits credit grantors to respond to consumers efficiently and rapidly partially by virtue of accessing credit information through on-line terminal facilities or alternatively by telephone Inquiries. If the free flow of information is impeded by law, the resulting inefficiencies will necessarily be translated into higher costs to industry and consumer.

Statement Of The National Bank Americard, United States Congress Senate Committee on Government Operations Ad Hoc Subcommittee on Privacy and Information, I: 606

Privacy bill limited to Fed Gov

▶ the US Federal Government affirmed *no general principle* of the protection of personal data.

Privacy bill limited to Fed Gov

- ▶ the US Federal Government affirmed *no general principle* of the protection of personal data.
- provided no generalized form of accounting for the collection, exchange, and sale of that data.

► the free use and abuse of personal data *came to seem* a natural state of affairs

- ▶ the free use and abuse of personal data *came to seem* a natural state of affairs
 - not something contigent

- the free use and abuse of personal data came to seem a natural state of affairs
 - not something contigent
 - no longer something subject to change

- the free use and abuse of personal data came to seem a natural state of affairs
 - not something contigent
 - no longer something subject to change
 - no longer subject to our political process and choices.

- the free use and abuse of personal data came to seem a natural state of affairs
 - not something contigent
 - no longer something subject to change
 - no longer subject to our political process and choices.
- a normal of mostly unrestricted data collection and use created essential conditions for

- the free use and abuse of personal data came to seem a natural state of affairs
 - not something contigent
 - no longer something subject to change
 - no longer subject to our political process and choices.
- a normal of mostly unrestricted data collection and use created essential conditions for
 - platforms capitalizing on massive and granular data about people

Artificiality of "free" use of data

- the free use and abuse of personal data came to seem a natural state of affairs
 - not something contigent
 - no longer something subject to change
 - no longer subject to our political process and choices.
- a normal of mostly unrestricted data collection and use created essential conditions for
 - platforms capitalizing on massive and granular data about people
 - large-scale government surveillance using business data

"sectoral approach" (U.S. privacy law)

- "sectoral approach" (U.S. privacy law)
- acts and commissions:

- "sectoral approach" (U.S. privacy law)
- acts and commissions:
 - ► FOIA 1966/1967

- "sectoral approach" (U.S. privacy law)
- acts and commissions:
 - ► FOIA 1966/1967
 - "Church" (Select Committee to Study Governmental Operations with Respect to Intelligence Activities of the United States Senate) 1975

- "sectoral approach" (U.S. privacy law)
- acts and commissions:
 - ► FOIA 1966/1967
 - "Church" (Select Committee to Study Governmental Operations with Respect to Intelligence Activities of the United States Senate) 1975
 - Watergate hearings

- "sectoral approach" (U.S. privacy law)
- acts and commissions:
 - ► FOIA 1966/1967
 - "Church" (Select Committee to Study Governmental Operations with Respect to Intelligence Activities of the United States Senate) 1975
 - Watergate hearings
 - Rockefeller Commission 1975

- "sectoral approach" (U.S. privacy law)
- acts and commissions:
 - ► FOIA 1966/1967
 - "Church" (Select Committee to Study Governmental Operations with Respect to Intelligence Activities of the United States Senate) 1975
 - Watergate hearings
 - Rockefeller Commission 1975
 - Pike Committee 1975

- "sectoral approach" (U.S. privacy law)
- acts and commissions:
 - ► FOIA 1966/1967
 - "Church" (Select Committee to Study Governmental Operations with Respect to Intelligence Activities of the United States Senate) 1975
 - Watergate hearings
 - Rockefeller Commission 1975
 - Pike Committee 1975
 - Social Security Number Task Force of 1970

- "sectoral approach" (U.S. privacy law)
- acts and commissions:
 - ► FOIA 1966/1967
 - "Church" (Select Committee to Study Governmental Operations with Respect to Intelligence Activities of the United States Senate) 1975
 - Watergate hearings
 - Rockefeller Commission 1975
 - Pike Committee 1975
 - Social Security Number Task Force of 1970
 - ► Fair Credit Reporting Act of 1970

- "sectoral approach" (U.S. privacy law)
- acts and commissions:
 - ► FOIA 1966/1967
 - "Church" (Select Committee to Study Governmental Operations with Respect to Intelligence Activities of the United States Senate) 1975
 - Watergate hearings
 - Rockefeller Commission 1975
 - ▶ Pike Committee 1975
 - Social Security Number Task Force of 1970
 - Fair Credit Reporting Act of 1970
 - Privacy Act of 1974

- "sectoral approach" (U.S. privacy law)
- acts and commissions:
 - ► FOIA 1966/1967
 - "Church" (Select Committee to Study Governmental Operations with Respect to Intelligence Activities of the United States Senate) 1975
 - Watergate hearings
 - Rockefeller Commission 1975
 - ▶ Pike Committee 1975
 - Social Security Number Task Force of 1970
 - Fair Credit Reporting Act of 1970
 - Privacy Act of 1974
 - ▶ The Family Educational Rights and Privacy Act of 1974

- "sectoral approach" (U.S. privacy law)
- acts and commissions:
 - ► FOIA 1966/1967
 - "Church" (Select Committee to Study Governmental Operations with Respect to Intelligence Activities of the United States Senate) 1975
 - Watergate hearings
 - Rockefeller Commission 1975
 - ▶ Pike Committee 1975
 - Social Security Number Task Force of 1970
 - Fair Credit Reporting Act of 1970
 - Privacy Act of 1974
 - ▶ The Family Educational Rights and Privacy Act of 1974
 - Video Privacy Protection Act of 1987

- "sectoral approach" (U.S. privacy law)
- acts and commissions:
 - ► FOIA 1966/1967
 - "Church" (Select Committee to Study Governmental Operations with Respect to Intelligence Activities of the United States Senate) 1975
 - Watergate hearings
 - Rockefeller Commission 1975
 - ▶ Pike Committee 1975
 - Social Security Number Task Force of 1970
 - Fair Credit Reporting Act of 1970
 - Privacy Act of 1974
 - ▶ The Family Educational Rights and Privacy Act of 1974
 - Video Privacy Protection Act of 1987
 - Electronic Communications Privacy Act

- "sectoral approach" (U.S. privacy law)
- acts and commissions:
 - ► FOIA 1966/1967
 - "Church" (Select Committee to Study Governmental Operations with Respect to Intelligence Activities of the United States Senate) 1975
 - Watergate hearings
 - Rockefeller Commission 1975
 - ▶ Pike Committee 1975
 - Social Security Number Task Force of 1970
 - Fair Credit Reporting Act of 1970
 - Privacy Act of 1974
 - The Family Educational Rights and Privacy Act of 1974
 - Video Privacy Protection Act of 1987
 - Electronic Communications Privacy Act
 - Computer Matching and Privacy Protection Act of 1988

- "sectoral approach" (U.S. privacy law)
- acts and commissions:
 - ► FOIA 1966/1967
 - "Church" (Select Committee to Study Governmental Operations with Respect to Intelligence Activities of the United States Senate) 1975
 - Watergate hearings
 - Rockefeller Commission 1975
 - ▶ Pike Committee 1975
 - Social Security Number Task Force of 1970
 - Fair Credit Reporting Act of 1970
 - Privacy Act of 1974
 - ▶ The Family Educational Rights and Privacy Act of 1974
 - Video Privacy Protection Act of 1987
 - Electronic Communications Privacy Act
 - Computer Matching and Privacy Protection Act of 1988
 - Drivers Privacy Protection Act of 1994

Igo: principle of *transparency* (in addition to privacy)

FERPA

▶ then: parent access to student records to correct errors

Igo: principle of *transparency* (in addition to privacy)

FERPA

- ▶ then: parent access to student records to correct errors
 - "Unlocking School Files: The Buckley Amendment," Washington Post, November 17, 1974"

Igo: principle of *transparency* (in addition to privacy)

FERPA

- ▶ then: parent access to student records to correct errors
 - "Unlocking School Files: The Buckley Amendment," Washington Post, November 17, 1974"
- now: non disclosure of student records to non-parents

Luhn

"business": who was his employer?

Luhn

- "business": who was his employer?
- ▶ labor: what were his patents?

Luhn

- "business": who was his employer?
- ▶ labor: what were his patents?
- ▶ impact: promoting BI to a function, centralizable, a skill

before Luhn, the deluge

who need to know it. Present methods of accomplishing this are inadequate and the general practice is to disseminate information rather broadly to be on the safe side. Since this method tends to swamp the recipients with paper, the probability of not communicating at all becomes great. The Business Intelligence System provides

Figure 2: Human problems

infosec as afterthought

There are many details which might have to be provided to adjust the general form of the system to specific applications. One such requirement might be classification, by an editor, of documents with regard to security, proprietary interests and proper utilization of information.

Figure 3: move fast, break things

partial democratization

5. The system is not to impose conditions on its user which require special training to obtain its services. Instead the system is to be operated by experienced library workers. Thus, in the case of an inquiry, the user will be required only to call the librarian, who will accept the query and will ask for any amplification which, in accordance with his experience, will be most helpful in securing the desired information.

Figure 4: "librarian" but "not to impose... special training"

Luhn the inventor + tinkerer

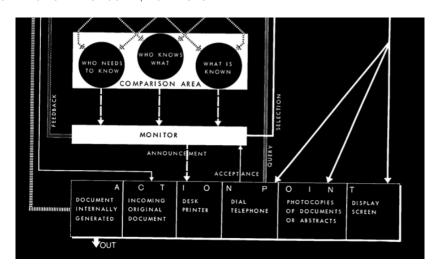


Figure 5: people are part of the information machine

Radin

"invisible labor" of big data, hidden even the word 'data'! researchers who donated the data were primarily concerned with attribution — making certain that their work and funders were credited properly — not about compensating patients, whose data had been made anonymous and was therefore regarded as protected.

opens with Lamport poem

- opens with Lamport poem
- please take note structure of TOC

- opens with Lamport poem
- please take note structure of TOC
 - ▶ dumpster fire in ch 1,2,3,4

- opens with Lamport poem
- please take note structure of TOC
 - dumpster fire in ch 1,2,3,4
 - ▶ law in ch 5,6

- opens with Lamport poem
- please take note structure of TOC
 - dumpster fire in ch 1,2,3,4
 - ▶ law in ch 5,6
 - ▶ solutions in ch 7

what does "private" describe?

- what does "private" describe?
- what are the strenghts and weaknesses of these approaches?

- what does "private" describe?
- what are the strenghts and weaknesses of these approaches?
 - philosophically

- what does "private" describe?
- what are the strenghts and weaknesses of these approaches?
 - philosophically
 - legally

- what does "private" describe?
- what are the strenghts and weaknesses of these approaches?
 - philosophically
 - legally
 - ▶ as something to build practicable enforceable systems with

Miller Ch 2 what is privacy anyway?

independence?

Privacy is a special kind of independence, which can be understood as an attempt to secure autonomy in at least a few personal and spiritual concerns, if necessary in defiance of all the pressures of modern society. [I]t seeks to erect an unbreachable wall of dignity and reserve against the entire world. The free man is the private man, the man who still keeps some of his thoughts and judgments entirely to himself, who feels no over-riding compulsion to share everything of value with others, not even those he loves and trusts.

Miller on Ch 2: is it that?

lawyers and social scientists have been reaching the conclusion that the basic attribute of an effective right of privacy is the individual's ability to control the circulation of information relating to him—a power that often is essential to maintaining social relationships and personal freedom.

Helen Nissenbaum: the alternative "contextual integrity" 2004

Proposals to improve and fortify notice-and-consent, such as clearer privacy policies and fairer information practices, will not overcome a fundamental flaw in the model. namely, its assumption that individuals can understand all facts relevant to true choice at the moment of pair-wise contracting between individuals and data gatherers. Instead, we must articulate a backdrop of context-specific substantive norms that constrain what information websites can collect, with whom they can share it, and under what con- ditions it can be shared. In developing this approach, the paper warns that the current bias in conceiving of the Net as a predominantly commercial enterprise seriously limits the privacy agenda.

what does "private" describe?

- what does "private" describe?
- ▶ a fact *F*?

- what does "private" describe?
- ▶ a fact *F*?
- ▶ a fact *F* and a set *S* of people who know?

- what does "private" describe?
- ▶ a fact *F*?
- ▶ a fact *F* and a set *S* of people who know?
- ▶ a fact F, a person D who discloses, and a set S of people disclosed to?

- what does "private" describe?
- ▶ a fact F?
- ▶ a fact F and a set S of people who know?
- ▶ a fact F, a person D who discloses, and a set S of people disclosed to?
- ▶ a F, D, S, and the intent ι of D and S?

- what does "private" describe?
- ▶ a fact *F*?
- ▶ a fact *F* and a set *S* of people who know?
- ▶ a fact F, a person D who discloses, and a set S of people disclosed to?
- ▶ a F, D, S, and the intent ι of D and S?
- In your group

'dossier' implies criminal

miller on McCarthyism

When the Secret Service's unregulated computerized system containing dossiers on "activists," "malcontents," and "potential presidential assassins" is considered, as well as the recent disclosure that the Justice Department's civil disturbance group is maintaining an intelligence data bank, along with the Army's activities, no one should be surprised that there is concern lest the government's surveillance efforts be the genesis of a police state or a return to McCarthyism. The senator is right—a thorough ventilation of the subject is obviously needed.

Figure 6: Dossier...McCarthyism...senatorial investigation "is needed"

elaboration by Igo

ties during the McCarthy years, the word "dossier" conjured up a suspect citizen who had through his own activities earned the attention of authorities. Merely having a dossier implied having something to hide; indeed, possessing "a record" was one feature distinguishing the bad citizen, or the noncitizen, from the good. For this reason, keeping tabs on lawabiding Americans, no matter that it was a routine practice of credit card companies and the IRS alike, could generate considerable unease. The headline of one negative report on the National Data Center, "There's a Dossier on You," tapped into just this sense of disquiet.²³

Figure 7: Recording implied you did something wrong

'dossier' implies criminal

miller on McCarthyism

When the Secret Service's unregulated computerized system containing dossiers on "activists," "malcontents," and "potential presidential assassins" is considered, as well as the recent disclosure that the Justice Department's civil disturbance group is maintaining an intelligence data bank, along with the Army's activities, no one should be surprised that there is concern lest the government's surveillance efforts be the genesis of a police state or a return to McCarthyism. The senator is right—a thorough ventilation of the subject is obviously needed.

Figure 8: Dossier... McCarthyism... senatorial investigation "is needed"

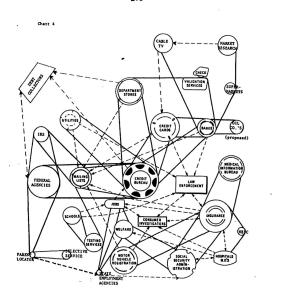
elaboration by Igo

ties during the McCarthy years, the word "dossier" conjured up a suspect citizen who had through his own activities earned the attention of authorities. Merely having a dossier implied having something to hide; indeed, possessing "a record" was one feature distinguishing the bad citizen, or the noncitizen, from the good. For this reason, keeping tabs on lawabiding Americans, no matter that it was a routine practice of credit card companies and the IRS alike, could generate considerable unease. The headline of one negative report on the National Data Center, "There's a Dossier on You," tapped into just this sense of disquiet.²³

Figure 9: Recording implied you did something wrong

1984 hearings on "CIVIL LIBERTIES AND THE NATIONAL SECURITY STATE"

275



Against Privacy

Privacy not a norm

"You have zero privacy anyway. Get over it." - Scott McNealy, the CEO of Sun Microsystems

Privacy not a norm

Privacy no longer a social norm, says Facebook founder







▲ People have become more comfortable sharing private information online, says Facebook founder Mark Zuckerberg, Photograph: Eric Risberg/AP

The rise of social networking online means that people no longer have an expectation of privacy, according to Facebook founder Mark Zuckerberg.

Talking at the Crunchie awards in San Francisco this weekend, the 25-year-old chief executive of the world's most popular social network said that privacy was no longer a "social norm".

Eric Schmidt (Google)

If you have something that you don't want anyone to know, maybe you shouldn't be doing it in the first place.

('Nothing to hide argument')

It is possible that [Google's] information could be made available to the authorities."

much greater transparency and no anonymity...true anonymity is too dangerous.

▶ labels are compressions and subjective

- ▶ labels are compressions and subjective
 - ▶ e.g., "arrest"

- ▶ labels are compressions and subjective
 - e.g., "arrest"
- iterations

- ▶ labels are compressions and subjective
 - ▶ e.g., "arrest"
- iterations
 - model-reality iteration,

- ▶ labels are compressions and subjective
 - e.g., "arrest"
- iterations
 - model-reality iteration,
 - product-market iteration,

- ▶ labels are compressions and subjective
 - ▶ e.g., "arrest"
- iterations
 - model-reality iteration,
 - product-market iteration,
 - "understand" vs "control conduct"

quote (miller)

To some degree, the widescale use of computers to determine consumer appetites and voter attitudes adds new dimensions to the study of human dynamics. Unfortunately, the name of the game is not necessarily to give the citizenry what it wants; often these surveys are intended to divine a method of making palatable what industry or government already has decided to offer the public. One New Jersey firm is developing a data bank on doctors in order to enable drug companies to promote their products in a way that is suited to the habits and personality of individual doctors.32 As this illustrates, the line between the use of cybernetics to understand an individual and its use to control or affect his conduct and beliefs is shadowy at best and one that is likely to be transgressed with some frequency.

Figure 12: "understand an individual" vs "control..conduct and beliefs"

iteration and contestation

imagined the writer, might beget a whole new form of individualism. Basing his discussion on the targeted mailing lists then beginning to make an appearance, Asimov reasoned, "What [the consumer] receives will be so likely to be of interest to him and to be slanted to his particular needs that, even if he does not buy, he will feel that someone has gone to the trouble of knowing what he might want." Indeed, it was perhaps only in a thoroughly computerized world that a person *could* be fully individualized. Until that day, "his wants and needs are unknown to anyone but himself and his immediate associates," making him a "faceless nothing." The known citizen, in his futuristic scenario, was a well-cared-for citizen.

Figure 13: quote, igo

Asimov loves persuasion architectures

Miller on fallibility of data

date, and seek out more or better data. True, most information users insist that they understand that the computer's utility and a data base's reliability necessarily are limited by the quality of the input, typically emphasizing their alleged awareness by reciting the maxim "garbage in, garbage out" (GIGO). Nonetheless, the hypnotic effect of being able to manipulate enormous data bases is likely to encourage people to use the computer as an electronic security blanket and to view it as a device for quantifying the unquantifiable.

Figure 14: Miller on GIGO

Miller on data as authority

Nor should we ignore the real possibility that prejudice to the individual will not end with the decision to seek an indictment. Commenting on this particular computer application, a lawyer observed: "[T]he . . . computer can tell you where the stars are going to be a million years from now. Do you think a jury is not going to believe that it can tell you where a bookie is in the Bronx?"²⁴

Figure 15: astronomy ergo predictive policing

Poon on FICO (why saved for last...)

end with FICO because it's a living fossil

Poon on FICO

credit became statistical (learned coefficients)

They compare the USA [and] Russia... [where] credit cards are distributed on the basis of subjective evaluations, on social networks and on 'trust' (ie, demonstrable friendships, kinship ties and employment), while in the USA, a mature market, institutions such as credit bureaus make calculative credit scoring practices feasible.

Poon on FICO

- credit became statistical (learned coefficients)
- was led by biz not academia

They compare the USA [and] Russia... [where] credit cards are distributed on the basis of subjective evaluations, on social networks and on 'trust' (ie, demonstrable friendships, kinship ties and employment), while in the USA, a mature market, institutions such as credit bureaus make calculative credit scoring practices feasible.

Poon on FICO

- credit became statistical (learned coefficients)
- was led by biz not academia
 - cf. death tables, Gaunt, etc

They compare the USA [and] Russia... [where] credit cards are distributed on the basis of subjective evaluations, on social networks and on 'trust' (ie, demonstrable friendships, kinship ties and employment), while in the USA, a mature market, institutions such as credit bureaus make calculative credit scoring practices feasible.

Poon on FICO

- credit became statistical (learned coefficients)
- was led by biz not academia
 - cf. death tables, Gaunt, etc
- was not immediately adopted relative to craft

They compare the USA [and] Russia... [where] credit cards are distributed on the basis of subjective evaluations, on social networks and on 'trust' (ie, demonstrable friendships, kinship ties and employment), while in the USA, a mature market, institutions such as credit bureaus make calculative credit scoring practices feasible.

Poon on FICO

- credit became statistical (learned coefficients)
- was led by biz not academia
 - cf. death tables, Gaunt, etc
- was not immediately adopted relative to craft
 - cf. death tables, Gaunt, etc

They compare the USA [and] Russia... [where] credit cards are distributed on the basis of subjective evaluations, on social networks and on 'trust' (ie, demonstrable friendships, kinship ties and employment), while in the USA, a mature market, institutions such as credit bureaus make calculative credit scoring practices feasible.

Poon on Labor

This was a two-stage process performed by housewives working at piece rates of a few cents per sample application out of their homes. The meticulous work of 'the home- coders' was the backbone of the scorecard since it was their job to interpret the writing on the ledger cards and reliably convert it into the standardized numerical codes demanded by the analytic process. Codes were transferred to paper, reviewed for accuracy by a woman assigned as a 'checker', and subsequently transferred to punch cards so that the data could be read by machine. As one of the women who headed coding described it, a punch card machine is 'like a typewriter, you put your IBM cards in — they're about five by seven — and you have to sort them. If we punched a certain digit that would mean [occupation]: housewife' (Senior coder A).

Poon on Labor, cont.

Because of its repetitive and mechanical nature, coding was considered a mundane task in the company. Yet upon scrutiny it is clear that the work that was done involved its own form of skilled decision-making that was far from obvious. A former coder made clear to me that '[t]here was some interpretation on all of this. You couldn't just copy it. That was the hard part, coding it. [. . .] They didn't just say he's been three times thirty days late in nice English' (Senior coder B). Another drew attention to the fact that, "We had to read these logs of payments and every company didn't do the same thing, and we'd get so confused' (Senior coder C).

The Wells system involved teams of women working with boxes of punch cards and 42 pound Fridan [sic] calculators.

Poon: role of state

[if you] wonder why such flawed techniques continue[d] to prevail in the lending industry, the author points to the role of the state in sanctioning these methods,

► cf., e.g., p-values

Poon: iteration

each time statistical practices have been introduced to a problem in a substantive domain, expertise, networks of associations, technical objects and even new interpretations of probability must be formed to accommodate this extension (Desrosiéres, 2000; Gigerenzer et al., 1989; Hacking, 1975; Porter, 1988). If statistical theories change as they travel, and if the places they go must be rebuilt and rearranged to fit to accommodate them in practice, then it is from the details of this mutual refitting that novel calculative effects must emerge.

where have we seen this before?

Poon: subjective design choices

the very distinction between 'good' and 'bad' was flexible. ... [e.g.,] one missed payment, two missed payments in 12 months, not paying at all for three months...) and policies on what was con-sidered an account in default varied between firms.

just how many files, from how narrow and recent a time period in a firm's history were necessary to build a representative model. present day relevance: COVID-19

▶ insightful infographics abound

- insightful infographics abound
 - ► Our world in data has a gallery

- insightful infographics abound
 - Our world in data has a gallery
 - ► NYT Graphics, dynamic dashboard

- insightful infographics abound
 - Our world in data has a gallery
 - ▶ NYT Graphics, dynamic dashboard
- ► Self-reporting apps are launching, e.g.,

- insightful infographics abound
 - Our world in data has a gallery
 - ▶ NYT Graphics, dynamic dashboard
- ► Self-reporting apps are launching, e.g.,
 - ► Kings College London

- insightful infographics abound
 - Our world in data has a gallery
 - ► NYT Graphics, dynamic dashboard
- ► Self-reporting apps are launching, e.g.,
 - ► Kings College London
- Academics join in as well, e.g.,

- insightful infographics abound
 - Our world in data has a gallery
 - NYT Graphics, dynamic dashboard
- Self-reporting apps are launching, e.g.,
 - Kings College London
- Academics join in as well, e.g.,
 - 19 February 2020 An interactive web-based dashboard to track COVID-19 in real time

▶ JHU dashboard ; these data now hosted by google, too

- ▶ JHU dashboard ; these data now hosted by google, too
- sharing data and code on GitHub, UK, US, CN, including "social" data, hosting apps

- ▶ JHU dashboard ; these data now hosted by google, too
- sharing data and code on GitHub, UK, US, CN, including "social" data, hosting apps
- ► Citizen scientists too

options differ; opinions surprise

▶ Pinboard guy opens We Need A Massive Surveillance Program: (Mar 23)

I am a privacy activist who has been riding a variety of high horses about the dangers of permanent, ubiquitous data collection since 2012. But warning people about these dangers today is like being concerned about black mold growing in the basement when the house is on fire.

options differ; opinions surprise

▶ Pinboard guy opens We Need A Massive Surveillance Program: (Mar 23)

I am a privacy activist who has been riding a variety of high horses about the dangers of permanent, ubiquitous data collection since 2012. But warning people about these dangers today is like being concerned about black mold growing in the basement when the house is on fire.

Former philosophy/ethics prof: "If I Were the Government or Big Tech Looking to Destroy Privacy, I'd Invent the Coronavirus" (Mar 24)

options differ; opinions surprise

- ▶ Pinboard guy opens We Need A Massive Surveillance Program: (Mar 23)
 - I am a privacy activist who has been riding a variety of high horses about the dangers of permanent, ubiquitous data collection since 2012. But warning people about these dangers today is like being concerned about black mold growing in the basement when the house is on fire.
- Former philosophy/ethics prof: "If I Were the Government or Big Tech Looking to Destroy Privacy, I'd Invent the Coronavirus" (Mar 24)
- ► et tu, Zoom?: Access Now urges transparency from Zoom on privacy and security (Human rights NGO; Mar 19)

ethics and covid

ethics and covid

► Who Should Be Saved First? Experts Offer Ethical Guidance (Mar 24)

► E.g., A decision-support framework to optimize border control for global outbreak mitigation, 2019

- ► E.g., A decision-support framework to optimize border control for global outbreak mitigation, 2019
- ► E.g., from SARS 2003

- ► E.g., A decision-support framework to optimize border control for global outbreak mitigation, 2019
- ► E.g., from SARS 2003
- ▶ E.g., R_0 , the "Basic reproduction number", traces to models of the early 1900s

power and principles

how did this capability rearrange power? who can now do what, from what, to whom?

role of rights, harms, justice?

1. post-WWII: tech change: data and information (last week: automating intelligence)

- 1. post-WWII: tech change: data and information (last week: automating intelligence)
- 2. immediate concern: privacy

- 1. post-WWII: tech change: data and information (last week: automating intelligence)
- 2. immediate concern: privacy
 - ▶ (cf., Hannah Wallach in 1st week: big data is scary when it's

- 1. post-WWII: tech change: data and information (last week: automating intelligence)
- 2. immediate concern: privacy
 - ▶ (cf., Hannah Wallach in 1st week: big data is scary when it's
 - granular and

- 1. post-WWII: tech change: data and information (last week: automating intelligence)
- 2. immediate concern: privacy
 - ▶ (cf., Hannah Wallach in 1st week: big data is scary when it's
 - granular and
 - personal)

- post-WWII: tech change: data and information (last week: automating intelligence)
- 2. immediate concern: privacy
 - ▶ (cf., Hannah Wallach in 1st week: big data is scary when it's
 - granular and
 - personal)
- 3. response: (esp. 1970s) first appearance in this class of *people* power around data

- 1. post-WWII: tech change: data and information (last week: automating intelligence)
- 2. immediate concern: privacy
 - ▶ (cf., Hannah Wallach in 1st week: big data is scary when it's
 - granular and
 - personal)
- 3. response: (esp. 1970s) first appearance in this class of *people* power around data
 - ▶ (as opposed to state + corporate power)

- 1. post-WWII: tech change: data and information (last week: automating intelligence)
- 2. immediate concern: privacy
 - ▶ (cf., Hannah Wallach in 1st week: big data is scary when it's
 - granular and
 - personal)
- 3. response: (esp. 1970s) first appearance in this class of *people* power around data
 - (as opposed to state + corporate power)
- ▶ inconvenient truths this week: big data (still) means labor.

- 1. post-WWII: tech change: data and information (last week: automating intelligence)
- 2. immediate concern: privacy
 - ▶ (cf., Hannah Wallach in 1st week: big data is scary when it's
 - granular and
 - personal)
- 3. response: (esp. 1970s) first appearance in this class of *people* power around data
 - (as opposed to state + corporate power)
- ▶ inconvenient truths this week: big data (still) means *labor*:
 - hidden, gendered (cf. Poon), "otherized" (cf. Radin) and repeatedly: devalued

what even is

- what even is
 - privacy

- what even is
 - privacy
 - ethics

- what even is
 - privacy
 - ethics
 - how we define

- what even is
 - privacy
 - ethics
 - how we define
 - ▶ how we design

- what even is
 - privacy
 - ethics
 - how we define
 - how we design
- what happens when data, intelligence, and money meet?

▶ 2020-01-21 : 1 of 14 intro to course

▶ 2020-01-21 : 1 of 14 intro to course

▶ 2020-01-28 : 2 of 14 setting the stakes

- ▶ 2020-01-21 : 1 of 14 intro to course
- ▶ 2020-01-28 : 2 of 14 setting the stakes
- ▶ 2020-02-04 : 3 of 14 risk and social physics

- ▶ 2020-01-21 : 1 of 14 intro to course
- ▶ 2020-01-28 : 2 of 14 setting the stakes
- ▶ 2020-02-04 : 3 of 14 risk and social physics
- ▶ 2020-02-11 : 4 of 14 statecraft and quantitative racism

- ▶ 2020-01-21 : 1 of 14 intro to course
- ▶ 2020-01-28 : 2 of 14 setting the stakes
- ▶ 2020-02-04 : 3 of 14 risk and social physics
- ▶ 2020-02-11 : 4 of 14 statecraft and quantitative racism
- ▶ 2020-02-18 : 5 of 14 intelligence, causality, and policy

- ▶ 2020-01-21 : 1 of 14 intro to course
- ▶ 2020-01-28 : 2 of 14 setting the stakes
- ▶ 2020-02-04 : 3 of 14 risk and social physics
- ▶ 2020-02-11 : 4 of 14 statecraft and quantitative racism
- ▶ 2020-02-18 : 5 of 14 intelligence, causality, and policy
- ▶ 2020-02-25 : 6 of 14 data gets real: mathematical baptism

- ▶ 2020-01-21 : 1 of 14 intro to course
- ▶ 2020-01-28 : 2 of 14 setting the stakes
- ▶ 2020-02-04 : 3 of 14 risk and social physics
- ▶ 2020-02-11 : 4 of 14 statecraft and quantitative racism
- ▶ 2020-02-18 : 5 of 14 intelligence, causality, and policy
- ▶ 2020-02-25 : 6 of 14 data gets real: mathematical baptism
- ▶ 2020-03-03 : 7 of 14 WWII, dawn of digital computation

- ▶ 2020-01-21 : 1 of 14 intro to course
- ▶ 2020-01-28 : 2 of 14 setting the stakes
- 2020-02-04 : 3 of 14 risk and social physics
- ▶ 2020-02-11 : 4 of 14 statecraft and quantitative racism
- ▶ 2020-02-18 : 5 of 14 intelligence, causality, and policy
- ▶ 2020-02-25 : 6 of 14 data gets real: mathematical baptism
- ▶ 2020-03-03 : 7 of 14 WWII, dawn of digital computation
- 2020-03-10 : 8 of 14 birth and death of AI

- ▶ 2020-01-21 : 1 of 14 intro to course
- ▶ 2020-01-28 : 2 of 14 setting the stakes
- 2020-02-04 : 3 of 14 risk and social physics
- ▶ 2020-02-11 : 4 of 14 statecraft and quantitative racism
- ▶ 2020-02-18 : 5 of 14 intelligence, causality, and policy
- ▶ 2020-02-25 : 6 of 14 data gets real: mathematical baptism
- ▶ 2020-03-03 : 7 of 14 WWII, dawn of digital computation
- ▶ 2020-03-10 : 8 of 14 birth and death of Al
- ▶ 2020-03-24 : 9 of 14 big data, old school (1958-1980)

- ▶ 2020-01-21 : 1 of 14 intro to course
- ▶ 2020-01-28 : 2 of 14 setting the stakes
- 2020-02-04 : 3 of 14 risk and social physics
- ▶ 2020-02-11 : 4 of 14 statecraft and quantitative racism
- ▶ 2020-02-18 : 5 of 14 intelligence, causality, and policy
- ▶ 2020-02-25 : 6 of 14 data gets real: mathematical baptism
- ▶ 2020-03-03 : 7 of 14 WWII, dawn of digital computation
- ▶ 2020-03-10 : 8 of 14 birth and death of Al
- ▶ 2020-03-24 : 9 of 14 big data, old school (1958-1980)
- 2020-03-31 : 10 of 14 data science, 1962-2017

- ▶ 2020-01-21 : 1 of 14 intro to course
- ▶ 2020-01-28 : 2 of 14 setting the stakes
- ▶ 2020-02-04 : 3 of 14 risk and social physics
- ▶ 2020-02-11 : 4 of 14 statecraft and quantitative racism
- ▶ 2020-02-18 : 5 of 14 intelligence, causality, and policy
- ▶ 2020-02-25 : 6 of 14 data gets real: mathematical baptism
- ▶ 2020-03-03 : 7 of 14 WWII, dawn of digital computation
- 2020-03-10 : 8 of 14 birth and death of Al
- ▶ 2020-03-24 : 9 of 14 big data, old school (1958-1980)
- 2020-03-31 : 10 of 14 data science, 1962-2017
- ▶ 2020-04-07 : 11 of 14 AI2.0

- ▶ 2020-01-21 : 1 of 14 intro to course
- ▶ 2020-01-28 : 2 of 14 setting the stakes
- 2020-02-04 : 3 of 14 risk and social physics
- ▶ 2020-02-11 : 4 of 14 statecraft and quantitative racism
- ▶ 2020-02-18 : 5 of 14 intelligence, causality, and policy
- ▶ 2020-02-25 : 6 of 14 data gets real: mathematical baptism
- ▶ 2020-03-03 : 7 of 14 WWII, dawn of digital computation
- ▶ 2020-03-10 : 8 of 14 birth and death of Al
- ▶ 2020-03-24 : 9 of 14 big data, old school (1958-1980)
- 2020-03-31 : 10 of 14 data science, 1962-2017
- ▶ 2020-04-07 : 11 of 14 AI2.0
- ▶ 2020-04-14 : 12 of 14 ethics

- ▶ 2020-01-21 : 1 of 14 intro to course
- ▶ 2020-01-28 : 2 of 14 setting the stakes
- 2020-02-04 : 3 of 14 risk and social physics
- ▶ 2020-02-11 : 4 of 14 statecraft and quantitative racism
- ▶ 2020-02-18 : 5 of 14 intelligence, causality, and policy
- ▶ 2020-02-25 : 6 of 14 data gets real: mathematical baptism
- ▶ 2020-03-03 : 7 of 14 WWII, dawn of digital computation
- ▶ 2020-03-10 : 8 of 14 birth and death of Al
- ▶ 2020-03-24 : 9 of 14 big data, old school (1958-1980)
- 2020-03-31 : 10 of 14 data science, 1962-2017
- ▶ 2020-04-07 : 11 of 14 Al2.0
- ▶ 2020-04-14 : 12 of 14 ethics
- ▶ 2020-04-21 : 13 of 14 present problems: attention economy+VC=dumpsterfire

- ▶ 2020-01-21 : 1 of 14 intro to course
- ▶ 2020-01-28 : 2 of 14 setting the stakes
- ▶ 2020-02-04 : 3 of 14 risk and social physics
- ▶ 2020-02-11 : 4 of 14 statecraft and quantitative racism
- ▶ 2020-02-18 : 5 of 14 intelligence, causality, and policy
- ▶ 2020-02-25 : 6 of 14 data gets real: mathematical baptism
- ▶ 2020-03-03 : 7 of 14 WWII, dawn of digital computation
- ▶ 2020-03-10 : 8 of 14 birth and death of Al
- ▶ 2020-03-24 : 9 of 14 big data, old school (1958-1980)
- ▶ 2020-03-31 : 10 of 14 data science, 1962-2017
- ▶ 2020-04-07 : 11 of 14 Al2.0
- ▶ 2020-04-14 : 12 of 14 ethics
- ▶ 2020-04-21 : 13 of 14 present problems: attention economy+VC=dumpsterfire
- 2020-04-28 : 14 of 14 future solutions

Bonus quotes

quote 2 (miller)

As recently as a decade ago we could smugly treat Huxley's Brave New World and Orwell's 1984 as exaggerated science fiction having no relevance to us or to life in this country. But widespread public disclosures during the past few years about the new breed of information practices have stripped away this comforting but self-delusive mantle. It is now common knowledge that whenever a citizen files a tax return, applies for life insurance or a credit card, seeks government benefits, or interviews for a job, a new dossier is opened on him and his informational profile is sketched. Indeed, there are precious few things left in life that will not leave distinctive electronic tracks in the memory of a computertracks that can tell a great deal about our activities, habits, and associations.

Figure 16: quote 2, miller

quote 8 (igo)

The very term "dossier," not to mention a "giant dossier bank," as the New York Times characterized one of the proposals for centralizing federal record keeping, had already acquired a bad reputation.²² Linked to those

226

The Record Prison

with a criminal record or who had engaged in subversive political activities during the McCarthy years, the word "dossier" conjured up a suspect citizen who had through his own activities earned the attention of authorities. Merely having a dossier implied having something to hide; indeed, possessing "a record" was one feature distinguishing the bad citizen, or the noncitizen, from the good. For this reason, keeping tabs on lawabiding Americans, no matter that it was a routine practice of credit card companies and the IRS alike, could generate considerable unease. The headline of one negative report on the National Data Center, "There's a

quote 9 (igo)

The very term "dossier," not to mention a "giant dossier bank," as the *New York Times* characterized one of the proposals for centralizing federal record keeping, had already acquired a bad reputation.²² Linked to those

226

The Record Prison

with a criminal record or who had engaged in subversive political activities during the McCarthy years, the word "dossier" conjured up a suspect citizen who had through his own activities earned the attention of authorities. Merely having a dossier implied having something to hide; indeed, possessing "a record" was one feature distinguishing the bad citizen, or the noncitizen, from the good. For this reason, keeping tabs on lawabiding Americans, no matter that it was a routine practice of credit card companies and the IRS alike, could generate considerable unease. The headline of one negative report on the National Data Center. "There's a

quote 10 (igo)

78. Isaac Asimov, "The Individualism to Come," New York Times advertising supplement, sec. 11, January 7, 1973, pp. 12, 13.

Figure 19: quote 10, igo

quote 11 (igo)

"De do la De do dans de de do

37. "Retail Credit's Day in Court," Privacy Journal 1: 2 (December 1974): 1; "Retail Credit Co. on Trial," Privacy Journal 1: 11 (September 1975): 4. Intriguingly, Retail Credit attempted to use FCRA against the Federal Trade Commission, arguing that the federal agency should not be privy to its customer files. On the Retail Credit Company, see the exposé "Anything Adverse?" New Yorker, April 21, 1975, as well as Roemer v. Retail Credit Co. of 1975. The company would soon, as a result of all this bad publicity, rename itself Equifax.

Figure 20: quote 11, igo

quote 12 (igo)

Still, expectations that a computerized world would usher in tremendous benefits were alive and well. The faith that computer systems would help government run better, deliver public services more effectively, and

232

The Record Prison

engineer new solutions to social problems animated discussions of expanding electronic networks. The municipal government of New Haven,

Figure 21: quote 12, igo

quote 13 (igo)

8. This last was the Government Accounting Office's blueprint for a center called FEDNET. Helen Nissenbaum, Privacy in Context: Technology, Policy, and the Integrity of Social Life (Stanford, CA: Stanford Law Books, 2010), 39. See also Robert Ellis Smith, Ben Franklin's Website: Privacy and Curiosity from Plymouth Rock to the Internet (Providence, RI: Privacy Journal, 2000), 309–312. "A detectable trend toward increased public criticism of the plans of organizations and their personal records" was also obvious in Britain, according to Malcolm Warner and David Stone, The Data Bank Society: Organizations, Computers and Social Freedom (London: George Allen & Unwin, 1970), 20.

Figure 22: quote 13, igo

quote 14 (igo)

dividual civil and bodily right to privacy. In the very years that French theorist Michel Foucault's writings on classification and distributed discipline were starting to be translated and read in the United States, a homegrown analysis of social surveillance was crystallizing. This analysis called attention to the ways citizens were captured or hemmed in by the many social institutions that "knew" them, whether through a rap sheet, a school dossier, or a credit report. Even if the term itself would have been unfamiliar to many, Foucault's description of "panopticism"—a system of control that worked because individuals never knew when they were being watched—shared much with discussions about an emerging surveillance society in the United States. Foucault had borrowed the concept

Figure 23: quote 14, igo