information flow, privacy and surveillance

do you want to know where I live? 2/131

 type my phone number in Reverse Phone field -> name + address

do you want to know where I live? 100 live?

- type my phone number in Reverse Phone field -> name + address
- click the address -> to see the map

do you want to know where I live?

- type my phone number in Reverse Phone field -> name + address
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- enter the address -> estimated value of house

 Zillow.com

Your Edge in Real Estate

do you want to know where I live?

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- click on the "street view" tab -> photo of my house from Google's camera-equipped cars



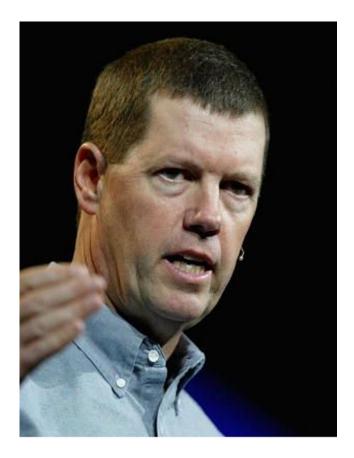
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- click on the "street view" tab -> photo of my house from Google's camera-equipped cars
- become a friend of my
 friend in Facebook and learn
 my family or prabook



"you have zero privacy anyway, get over it"



Scott McNealy (1954 -)
former CEO of Sun
Microsystems

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is it possible to maintain privacy in the information age?

- 1-Georgetown Uni, campus security, email crime report on 3 students, accidentally email to all, email system shutdown immediately for hours to delete emails from inboxes
- 2-Maryland, 1993, medical records DB, a member of Maryland's public health commission also a banker, access DB, call in the loans who have cancer



3-2005, senior, UMass Darthmouth, research paper on communism, Mao's "Little Red Book", not in lib, interlibrary request form, name&address&phone&SSN, two agents visit and warn, book on "watch list", significant time abroad combined with request triggered visit

his professor: "I shrudder to think of all the students I've had monitoring al-Qaeda web sites, what the government must think of that?"

4-email privacy and advertising: "send" attorney-toclient, client account Gmail, attorney do not know Google scans inside msgs, "new client" "attorneys at law" "construction litigation" name of the city where attorney is scanned, when client views email attorney's competitors advs are next, everyday occurence





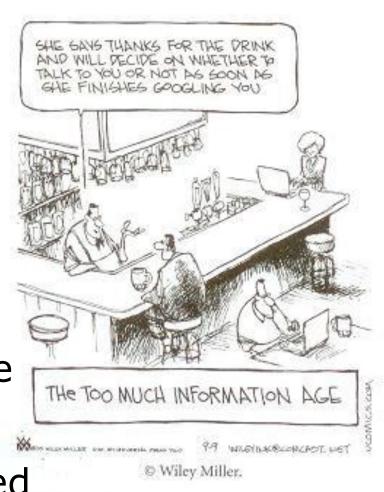
5-workplace spying: the Lidl case: march 2008, second largest grocery store in Germany accused by "Stern", hiring detectives to spy employees, also in Czech Rep., filing reports on individuals "on job", "on breaks" even "in toilet", also gathering data on financial status, relationships, postwork, "Her circle of friends consists of mainly junkies.","Ms. M. has a tattoo on both lower arms.", compared to "Stasi" -East German secret police, Czech Rep. -> female employees prohobited to go to bathroom any time, headband for period, Lidl -> 17000 stores in 17 different European countries, no denial, excuse and even justification about employee thefts, violations of personal privacy and human dignity, 36k euro fine in 2009

information flow with and without IT 13/1

three features of IT-conf-socs -> esp. reproducibility, flowing one-to-many, one-to-one, many-to-one, difficult and often practically impossible to be not tracked, "scale" of personal info gathering exponentially increased, not tech determinism -> esp. govn and corps want this, new kind of info -> transaction generated info (TGI) (cookies, clickstreams, merged and mined, personal info when stored in a server, intentionally or not can be sold, given away, traded or stolen, endurance problem -> when digitally no need to get rid of it (Facebook personal info and images are kept even after deletion), also the quality and accuracy of info is in question, erroneous dat can be spread so quickly that indv. can't trace (both intentional and mistake)

information flow with and without IT 14/13

- 1- much more personal information collection
- 2- new kinds of personal information available
- 3- personal information is distributed widely
- 4- personal info endurance
- 5- effects of erroneous information are magnified



defining privacy

privacy is a social arrangement that allows an individual to have some level of control over who is able to access to their <u>physical selves</u> and <u>personal information</u>

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"zone of inaccesibility" (Bryne) (such as locking toilet door, refuse to give SSN at a lottery)

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"violating someone's privacy is an affront to that person's dignity" (Bloustein) (means to an end issue, e.g. stealing someone's pw)

affront: hakaret, dignity: haysiyet

harms of privacy

wealthy white Anglo-Saxon Protestant men club, journalist figuring politician losing a million at gambling in Las Vegas, family violence, outcast ignorance





benefits of privacy

true freedom, fostering intellectual activities, respect, love, friendship, trust, "moral capital"

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true freedom, fostering intellectual activities, respect, love, friendship, trust, "moral capital"

e.g. playing with child under gaze, wearing public face out of work

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"ladder of privacy" -> spouse ~ enemies

not exactly sharing info, intimacy is more than that (e.g. psychatrist)

ladder of privacy example



ladder of privacy example

spouse

priest/minister/rabbi

brothers and sisters

parents

children

friends

in-laws

coworkers



ladder of privacy example

spouse

priest/minister/rabbi

brothers and sisters

parents

children

friends

in-laws

coworkers



neighbors

marketers

employers

government

news media

ex-spouses

potential rivals/enemies

intensive tracking and monitoring on individuals

surveillance by CCTV (public streets, public spaces), computers (supervisor monitoring), navigational devices, cell phones (location identification), website tracking

data can be merged! -> comprehensive profiling on individuals, merged data can be mined! -> classified as terrorist or on-debt crediter?

IT societies -> surveillance societies

- What, if anything, is the value of privacy?

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from utilitarianism -> to autonomy and democracy

1. "if you're not doing anything wrong, you should have no need to worry about being watched"

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- "privacy is overrated" (opting to live in an IT-society, giving up privacy because it is neither valued nor valuable)

- 1. "if you're not doing anything wrong, you should have no need to worry about being watched"
- 2. "privacy is overrated" (opting to live in an IT-society, giving up privacy because it is neither valued nor valuable)
- 3. "data has enormous benefits to the organizations as well as to individuals"

1. "privacy only protects people who have something to hide"

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not benign, erroneous info problem (travel another state, car, police chase, stolen weeks ago, found last week, try to explain, one night in jail, in fact alert failed to get deleted in this state, recorded!, years later, job application, an employer scans records, you may never know why your life is being changed)

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also irrelevant info problem (woman v.s. landlord)

2. "people have traded their privacy off for benefits of IT"

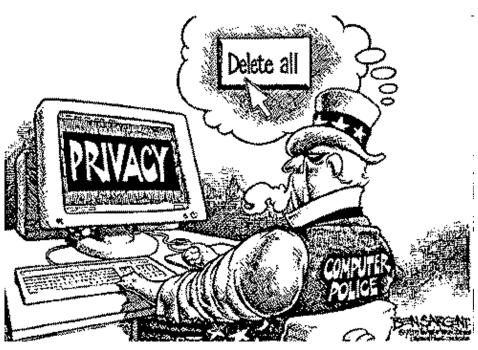
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- people largely unaware and naive, e.g. discount options are limiting choices (give info for discount or get nothing)
- people make "local" choices but they can't realize that it can be "globalized" (individual -> shop, CCTV at work, air travel NP... but when cumulative??)

3. "better loan estimates, better risk analysis, catching terrorists, who doesn't want that?"

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are "they" trying to "serve" us or "shape" us in fact? (need utilitarian analysis)







Peace, dignity and equality on a healthy planet

Universal Declaration of Human Rights



The Universal Declaration of Human Rights

The Universal Declaration of Human Rights (UDHR) is a milestone document in the history of human rights. Drafted by representatives with different legal and cultural backgrounds from all regions of the world, the Declaration was proclaimed by the United Nations General Assembly in Paris on 10 December 1948 (General Assembly resolution 217 A) as a common standard of achievements for all peoples and all nations. It sets out, for the first time, fundamental human rights to be universally protected and it has been translated into over 500 languages.

Download PDF

1

We Are All Born Free & Equal.

We are all born free. We all have our own thoughts and ideas. We should all be treated in the same way.

2

Don't Discriminate.

These rights belong to everybody, whatever our differences.

3

The Right to Life.

We all have the right to life, and to live in freedom and safety.

4

No Slavery.

Nobody has any right to make us a slave. We cannot make anyone our slave.

5

No Torture.

Nobody has any right to hurt us or to torture us.

You Have Rights No Matter Where You Go.

I am a person just like you!

We're All Equal Before the Law.

The law is the same for everyone. It must treat us all fairly.

Your Human Rights Are Protected by Law.

We can all ask for the law to help us when we are not treated fairly.

No Unfair Detainment.

Nobody has the right to put us in prison without good reason and keep us there, or to send us away from our country.

The Right to Trial.

If we are put on trial this should be in public. The people who try us should not let anyone tell them what to do.

11

We're Always Innocent Till Proven Guilty.

Nobody should be blamed for doing something until it is proven. When people say we did a bad thing we have the right to show it is not true.

12

The Right to Privacy.

Nobody should try to harm our good name. Nobody has the right to come into our home, open our letters, or bother us or our family without a good reason.

13

Freedom to Move.

We all have the right to go where we want in our own country and to travel as we wish.

14

The Right to Seek a Safe Place to Live.

If we are frightened of being badly treated in our own country, we all have the right to run away to another country to be safe.

15

Right to a Nationality.

We all have the right to belong to a country.

16

Marriage and Family.

Every grown-up has the right to marry and have a family if they want to. Men and women have the same rights when they are married, and when they are separated.

17

The Right to Your Own Things.

Everyone has the right to own things or share them. Nobody should take our things from us without a good reason.

18

Freedom of Thought.

We all have the right to believe in what we want to believe, to have a religion, or to change it if we want.

19

Freedom of Expression.

We all have the right to make up our own minds, to think what we like, to say what we think, and to share our ideas with other people.

20

The Right to Public Assembly.

We all have the right to meet our friends and to work together in peace to defend our rights. Nobody can make us join a group if we don't want to.

21

The Right to Democracy.

We all have the right to take part in the government of our country. Every grown-up should be allowed to choose their own leaders.

22

Social Security.

We all have the right to affordable housing, medicine, education, and childcare, enough money to live on and medical help if we are ill or old.

23

Workers' Rights.

Every grown-up has the right to do a job, to a fair wage for their work, and to join a trade union.

24

The Right to Play.

We all have the right to rest from work and to relax.

25

Food and Shelter for All.

We all have the right to a good life. Mothers and children, people who are old, unemployed or disabled, and all people have the right to be cared for.

26

The Right to Education.

Education is a right. Primary school should be free. We should learn about the United Nations and how to get on with others. Our parents can choose what we learn.

27

Copyright.

Copyright is a special law that protects one's own artistic creations and writings; others cannot make copies without permission. We all have the right to our own way of life and to enjoy the good things that art, science and learning bring.

28

A Fair and Free World.

There must be proper order so we can all enjoy rights and freedoms in our own country and all over the world.

29

Responsibility.

We have a duty to other people, and we should protect their rights and freedoms.

30

No One Can Take Away Your Human Rights.

like right to life, liberty, to own property + **privacy**



12

The Right to Privacy.

Nobody should try to harm our good name. Nobody has the right to come into our home, open our letters, or bother us or our family without a good reason.

like right to life, liberty, to own property + **privacy**

grows out of property rights

English common law -> "a man's home is his castle" (European basis, adopted by US)

"Every 'privacy right' violation is a violation of another right" (e.g. picture – see)



Judith J. Thompson (1929 -)

American philosopher

"Every 'privacy right' violation is a violation of another right" (e.g. picture – see)

"the control on my own self"



Jeffrey Reiman (1942 -)
American philosopher



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like right to life, liberty, to own property + **privacy**

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privacy is a prudential right (considering pros and cons for society)

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telemarketing, home calls at dinner time, disturbed %49 in 1994, %62 in 2003, "National Do Not Call Registry", 50M+ phones registered, shielding > tel. adv.

less privacy at agrarian times (religious
 oppression, society oppression), modern
 times -> rise of the individualism, (single
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The Costs Surveillance an Reputation in America Steven L. Nock

Nock: "A society of strangers is one of immense personal privacy, surveillance is the cost of that privacy." - 1993

the importance of privacy

- privacy as an individual good
- privacy as contextual integrity
- privacy as a social good essential for democracy

1970's debate, limiting govn but what about corporations?, corps are even stronger than govn today



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is privacy good because of what it leads to (enables) or is it good in itself?

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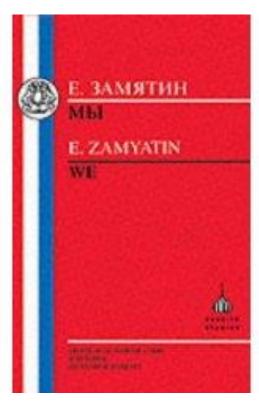
Fried(1968) friendship, intimacy and trust could not develop in societies or contexts in which individuals were under constant surveillance

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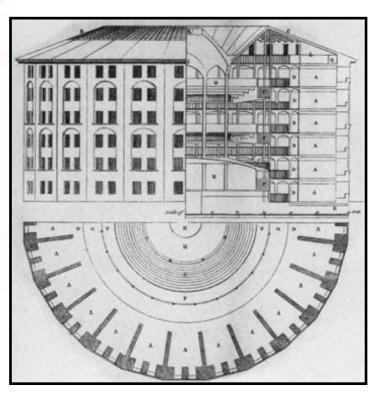
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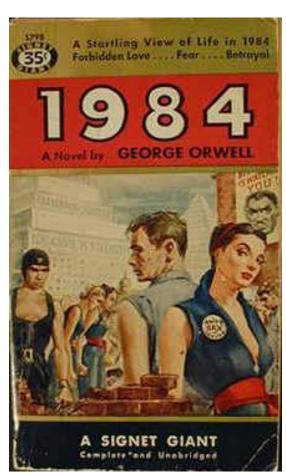
individuals are watched -> impossible to develop trust and mutual respect



Zamyatin "We" (1920)



Jeremy Bentham's "Panopticon" (1787)



George Orwell "1984" (1949)

Rachels(1975) -> importance of diversity in relationships, controlling information about us, spouse v.s. employer, no control -> no diversity, (dentist example), diversity != many options (SNS, govn, corp, police), value of diversity is important

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when we lose control of personal information, we lose control of our relationships (gossip example), noone asking us, maybe false info, noone confirming, feeling powerless

- 2. privacy -> contextual integrity
- 3. autonomy -> democracy

Nissenbaum(2004) information norms in every domain of life

- 1. what kinds of information are appropriate and inappropriate?
- 2. how that information will be distributed?
- norms violated -> privacy violated



Nissenbaum(2004) information norms in every domain of life

- 1. what kinds of information are appropriate and inappropriate?
- 2. how that information will be distributed?
- norms violated -> privacy violated
- 1.loan at bank -> salary, debts etc., not medical history, political affiliations, ethnic background; medical aid -> medical history, maybe ethnic background, sexual preference, not financial status, political affiliations

2.purchase over \$10k must be reported, criminal records access (safe harbor), medical records access limited, credit reports widely distributed to who pay

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information norms -> both formal and informal

"how much money you make?", informal norms may differ dramatically in different countries

privacy as contextual integrity

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IT expands -> norms change

e.g. users have discovered that Google can and does search email for content yet many still using services

privacy as contextual integrity

privacy is so difficult to protect, esp. with IT

IT tools often invisible in domains and usually adopted and used without public announcement

privacy as contextual integrity

privacy is so difficult to protect, esp. with IT

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customers, clients and citizens are unaware of information norms in many contexts, no way to inquire, no way to find out norms.

one doesn't know whether one is being treated appropriately or not

privacy as a social good essential for democracy

so far individual interest -> hard to convince for whole?

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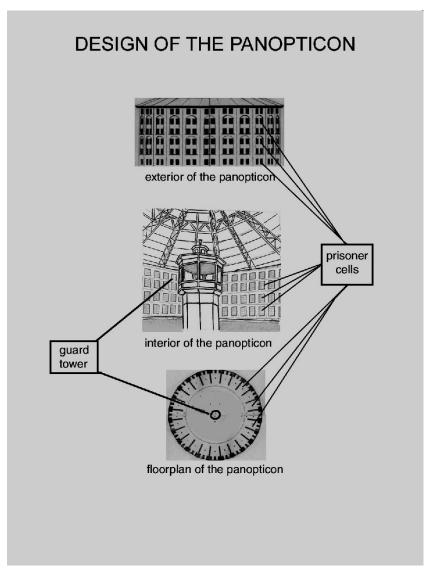
U.S. Patriot Act, Reagan(1995) balancing privacy against social good -> personal privacy loses, the need for social good focus



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focus on autonomy -> essential for democracy



surveillance: continuous observation

what might observer think of me? -> people become to see themselves as their watchers see them -> behaving to watcher's norms

surveillance: continuous observation

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be not only careful about obeying law, taxes and debts... also on Facebook, Google, phone calls, sexual preference, drinking habits, religion etc. ...

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freedom (3), democratic citizenship (3)

Reiman(1995) -> being publicly acceptable, self-discovery and creativity is lost, not temptation to walk away from beaten path (ants?)

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democracy -> autonomy... finally democracy
 will be lost

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democracy -> autonomy... finally democracy
 will be lost

privacy isn't only instrumental to autonomy and democracy, is <u>essential</u> to both

allowing people to have at least some privacy is better than denying all privacy at all

electronic trails in DBs

electronic trails in DBs

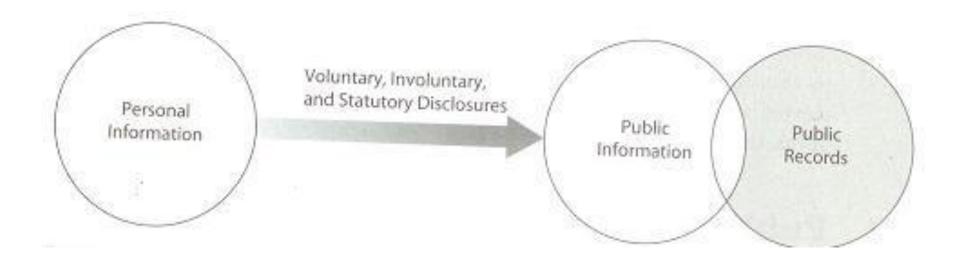
public record: incident or action reported to govn to inform public (birth certificates, marriage licenses, motor vehicle records, criminal records, deeds to property)

electronic trails in DBs

public record: incident or action reported to govn to inform public (birth certificates, marriage licenses, motor vehicle records, criminal records, deeds to property)

public information: information you have provided to an org that has right to share it with other orgs (tel.dir. listing)

personal information becomes public information or public record through a voluntary, involuntary or statutory disclosure



the path from personal info -> public info

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1. rewards or loyalty programs (market card, 100+ years, burden is on people who aren't using them)



- the path from personal info -> public info
- 1. rewards or loyalty programs (market card)
- 2. body scanners (clothing)



the path from personal info -> public info

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- 4. automobile "black boxes" (+ OnStar e.g. chase)







the path from personal info -> public info

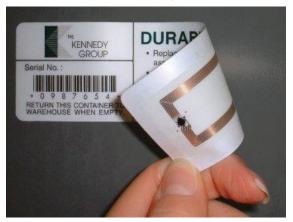
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- 4. automobile "black boxes" (OnStar)
- 5. enhanced 911 service (cell phone location what if sold or shared?)

Canada's new free digital home phone service.



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- 6. RFIDs (not removed!)





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- 7. implanted chips (esp. for medical)





VeriChip's implantable RFID device.

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- 9. medical records (who has access?)

```
the path from personal info -> public info
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Android security: 0.04% of downloads on Google Play in 2018 were 'potentially harmful apps'

Comr

keeping transaction private is more difficult than making it public

Google's personalized search (e.g. bass – secondary use, cookie, 180 days)



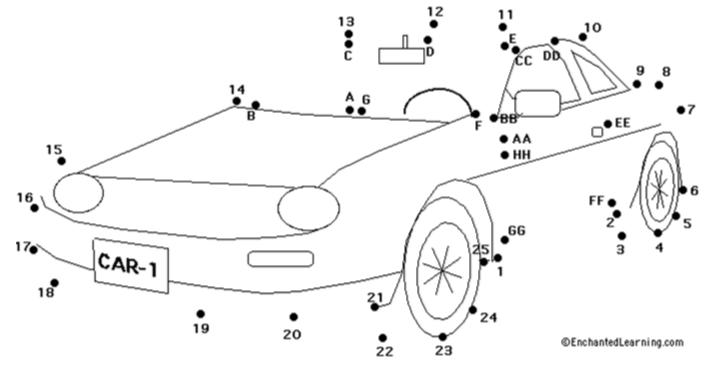
collaborative filtering, large numbers of people



credit reports, microtargeting, etc...

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connecting the dots (example - transponder id, date, time, location, charge - govn agency-> credit card company -> banks)



data mining, social sorting and discrimination

invisibility of watching, evaluation and treatment

Patriot Act -> norms are hidden for security corps -> no rationale on personal info prot.







data mining, social sorting and discrimination

invisibility of watching, evaluation and treatment

Patriot Act -> norms are hidden for security

corps -> no rationale on personal info prot.

CCTV in Britain -> only %3 street robbery drop

data mining, social sorting and discrimination

invisibility of watching, evaluation and treatment

Patriot Act -> norms are hidden for security

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CCTV in Britain -> only %3 street robbery drop

"name of the game" -> "prediction"

conundrum -> prediction + prejudice and
injustice

stereotyping X individuals

conundrum: muamma

data mining, social sorting and discrimination

sorting -> inequality, different individuals are
treated differently



crude categories

imagine: even crudest categories are prohobited!?

"all default"



crude categories

imagine: even crudest categories are prohobited!?

"all default"

- more privacy because using personal data is forbidden
- individuals as autonomous beings
- individuals are treated as to be <u>changeable</u>

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from objects -> to persons

is privacy over? strategies for shaping data flow

"privacy is over; forget it"

"wouldn't you want the medical staff to be able to access your medical records wherever they are?"

strategy -> specifying policies for particular domains

fair information practices

"Code of Fair Information Practices" (1973)

- personal data record-keeping, secret existence
- individual, what info, used how
- prevent for one purpose to another purpose
- individual to correct information
- any organization manipulating data must ensure misuse of data

fair information practices

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transparency (warning), opt-in instead of optout

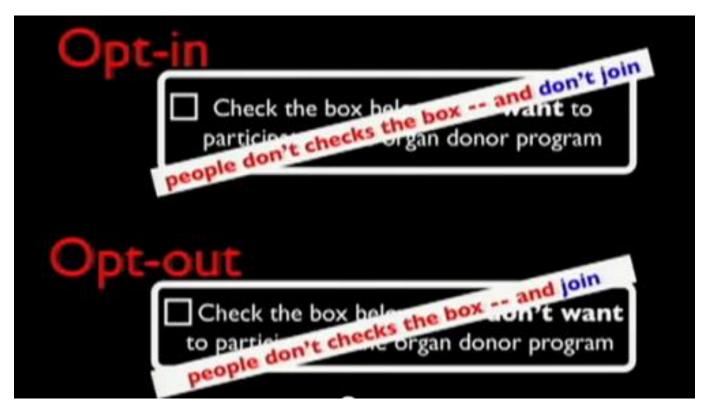
opt-in v.s. opt-out

opt-in policies are preferred by privacy advocates

opt-in v.s. opt-out

opt-in policies are preferred by privacy advocates

opt-out preferred by direct marketers because opt-in is a barrier for new businesses



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strong encryption ~ length of public key

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govn forbid export of strong encryption tech (need a "backdoor" for govn), Phil Zimmermann case 1991-1996 (PGP – Pretty Good Privacy for common people, "if privacy is outlawed, only outlaws will have privacy)

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identified electronic money system: bank can trace the money flow from customer

anonymous electronic money system: a.k.a. digital cash, cannot be tracked, relies upon blind signature, centralized online system can easily check for duplication, pseudonymous???

ACM (Association for Computing Machinery)

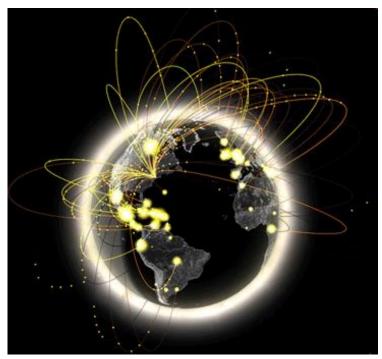
- minimize data collected
- limit authorized access to data
- provide proper security for data
- determine required retention period of the data
- ensure proper disposal of data

a note on privacy and globalization

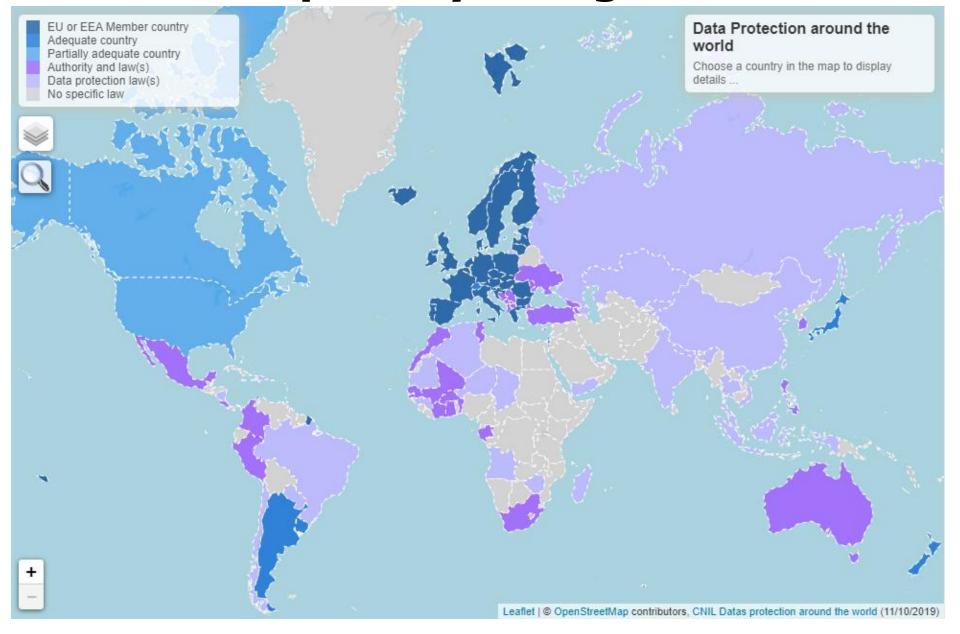
personal data moving from one set of law to

another state of law?

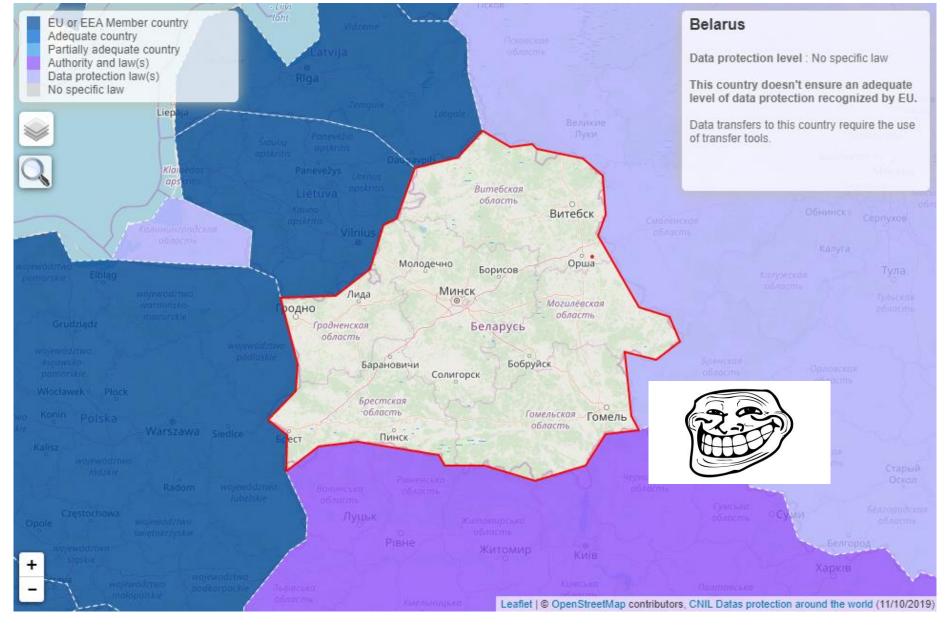




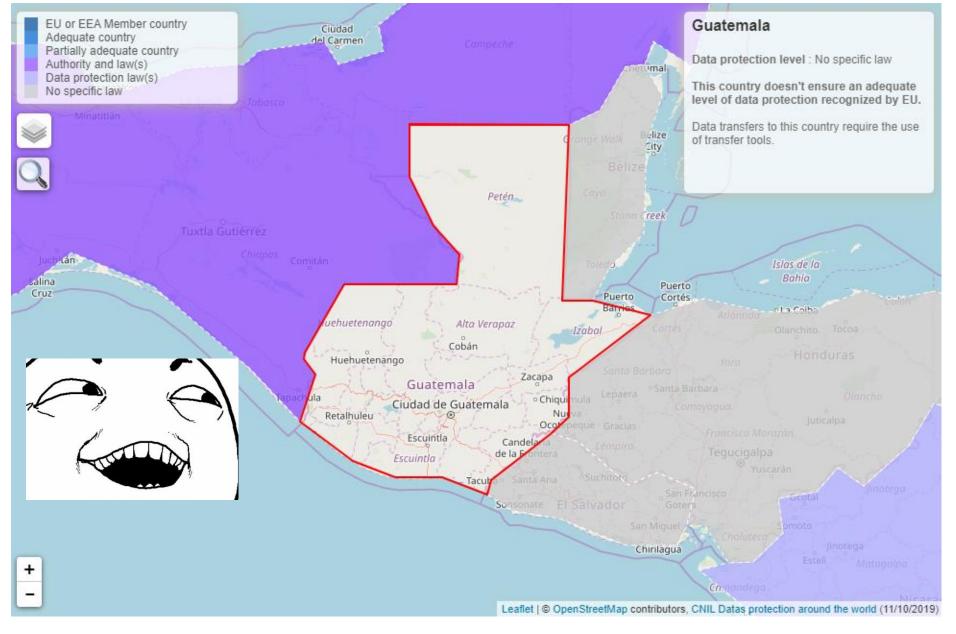
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