script

Data Governance, Ethics and the law





Ethics and law: why does it matter to computer scientists?





Costs: fines and reputation



"In encoding the discs [with copy-protection spyware] Sony and F4i have decided that their intellectual property is more deserving of protection than the intellectual property and personal information on millions of personal computers around the world"

> -- Excerpt of class-action favour plant against SONY, EMG and First 4 Internet, US Electricit court, New York, 31/14/2005





No Buy-in by needed users







Loss of trust



Remembering Mark Zuckerberg

We hope people who love Mark will find comfort in the things others sh Learn more about memorialized accounts and the legacy contact setting on Facebo













- Fines (under GDPR: a fine up to 10,000,000 EUR or up to 2% of the annual worldwide turnover of the preceding financial year in case of an enterprise, whichever is greater (Article 83, Paragraph 4 [14]))
- a fine up to 20,000,000 EUR, or in the case of an undertaking, up to 4% of the total worldwide annual turnover of the preceding financial year, whichever is higher (Article 83, Paragraph 5 &





• Damages: potentially unlimited





• Data breach notification duty:here goes your reputation









Ethics and Data science

- A bit like kissing in the school yard:
- Lots of people seem to be talking about it
- Much fewer actually do it
- Even fewer do it well







What does "data ethics" mean?

- Don't break the law?
- Don't break the spirit of the law?
- Don't do harm (non-malevolence)?
- Do good (benevolence)
- Respect autonomy?
- Be just?
- Be a "good X" (scientists, doctor, politician etc)
 - Noe be bad





What does professional ethics mean

- Being a "good X" (scientists, administartor, judge…)
- Not violating the professional rules
- Being perceived by others as exemplary
- Being a "virtuous" X



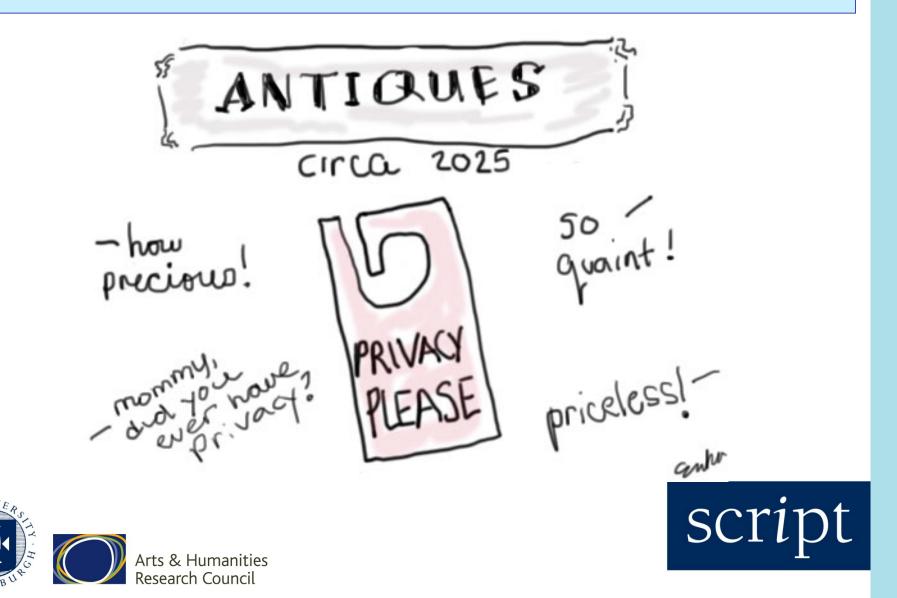


The knowledge trifeca

- Known risks ("known kowns")
- Known possible risks ("known unkown")
- Unknown but real risks (unkonwn unkowns")







Known risks and the law

- Privacy
- Property (IP)
 - Commercialisation and independence
 - Benefit sharing
- Openness
 - FOI
 - Funding council guidelines: open access, replicability





Risk Management and planning tools I

- SWOT
 - strengths, weaknesses, opportunities, threats
- PEST
 - political, economic, social and technological
- PESTLE
 - political, economic, social, tech; legal; ethical
- STEEPLE (D)
 - Environemntal and demographic
- SPELIT,
 - legal and intercultural factors







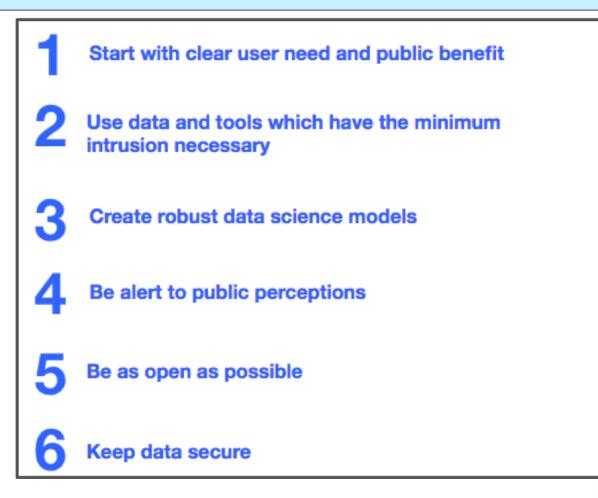
Risk management and planning tools II

- Privacy Impact Assessment
- Cabinett Office Big Data Analysis Tool



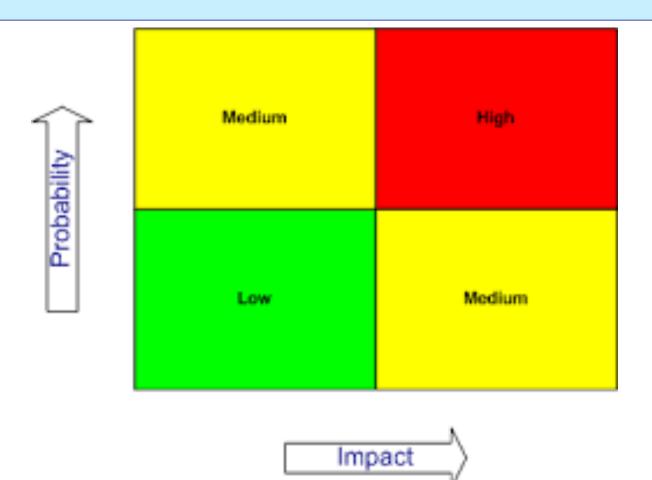


Cabinett Office Data Ethics Tool





















The bad

- US university applicants apply for federal grants
- One section of the application form asks them to rank their universities by preferences

Step Six (Student): Indicate which colleges you want to receive your FAFSA information.

Enter the six-digit federal school code and your housing plans. You can find the school codes at **www.fafsa.gov** or by calling 1-800-4-FED-AID. If you cannot get the code, write in the complete name, address, city and state of the college. For state aid, you may wish to list your preferred college first. To find out how to have more colleges receive your FAFSA information, read **What is the FAFSA?** on page 10.

	101.a	TST FEDERAL SCHOOL CODE	NAME OF COLLEGE	HOUSING PLANS	
			ADDRESS AND CITY	with parent 2 2 off campus 3	
	101.c	2ND FEDERAL SCHOOL CODE	NAME OF COLLEGE ADDRESS AND CITY	STATE 101. d on campus 1 with parent 2	2
	101 e	3RD FEDERAL SCHOOL CODE	NAME OF	off campus () 3	
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- Form is then shared with universities
- ...which in some cases use this to reject candidates that did not list them first
- Maybe worse, offered less financial suport to candidates who listed them second
- Combined with browsing data from ranking websites





- Data minimisation?
- Data sharing?
- Consent, secondary use/purpose binding principle
- Harming your clients?
- Non-sustainable/harming your future data access





- Privacy
- Harm to the person who supplies the data





The racist sentencing support system

The Legal System Uses an Algorithm to Predict If People Might Be Future Criminals. It's Biased Against Blacks.

And it's terrible at predicting future crimes.

BY JULIA ANGWIN, JEFF LARSON, SURYA MATTU AND LAUREN KIRCHNER, PROPUBLICA MAY 23, 2016 5:16 PM





TOP NEWS

A Black Woman Is Arguing a Big Supreme Court Case Today.



- Discrimination
- Violation of laws
- Hidden biases
- Wider social harm





The ugly

Facebook's mood study: How you became the guinea pig

That controversial research into how posts affect users' emotions is just latest in a long line of privacy flaps -- and apologies -- for the social networking giant.







- Privacy
- Autonomy
- Benefits? Justice?











Citizen science – where could be the harm in that?

- Citizens record noise levels on mobile phones
- City makes planning decisions on that basis
 - (traffic calming/redirection measures)







- Who is heard and who is not heard?
- Who suffers from the decision taken?











Cloudteams



menu 🗸

OUR MISSION IS TWO-FOLD

1

OPEN UP THE DEVELOPMENT PROCESS

If you are a software design & developer team, CloudTeams will offer useful tools to collaborate with potential customers, get their feedback and stream it effectively into the work cycle. We believe this will help you become more competitive and offer great applications to the world. 2

ENJOY BETTER APPLICATIONS

If you think software applications should be meaningful and enjoyable, CloudTeams will offer you a way to actively collaborate with creators to shape up any type of software application. We believe that with the right set of tools, transparency & control people like you can make a difference.





- Earn points while you share
- Get earlier/cheaper/free access to the apps that are developed
- Make the most of your Facebook account by combining it with CT data





Possible issues

- Is gameification appropriate for health data?
- Risk through cumulative participation with same development team
- Risk of inducing you to violate your obligations



