Ethics and Al continued

INFR11158/11230 Usable Security and Privacy

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21/03/2025

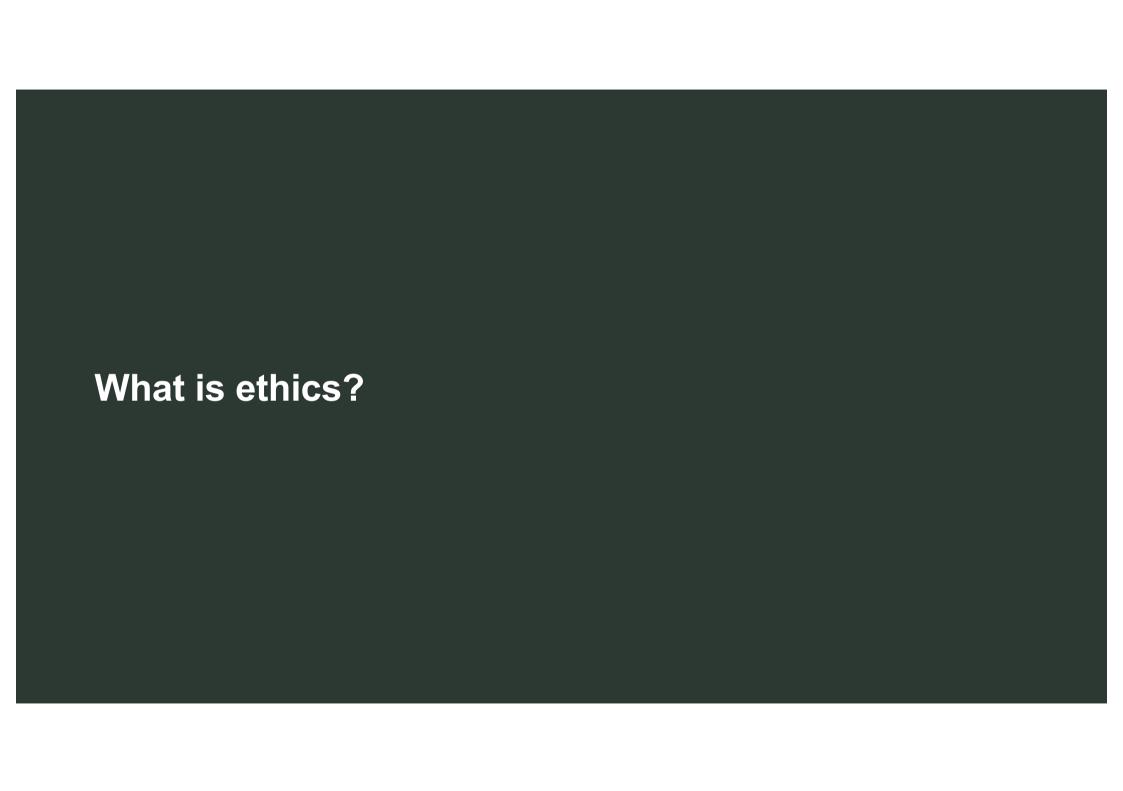


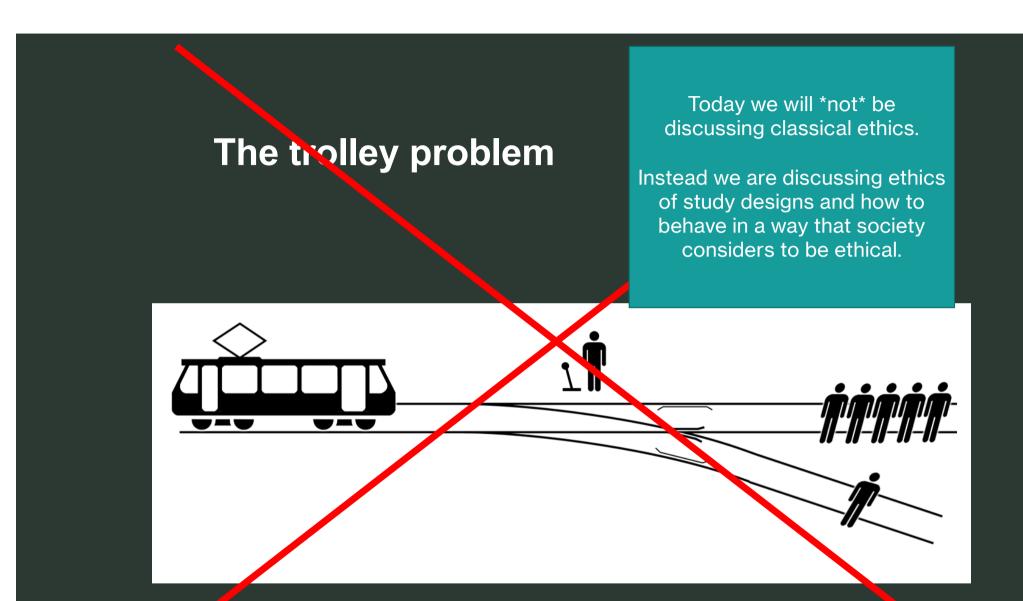
Overview

- Warm-up
- Ethics intro
- Guest lecture



https://www.youtube.com/watch?v=cFM6BTgFYdE







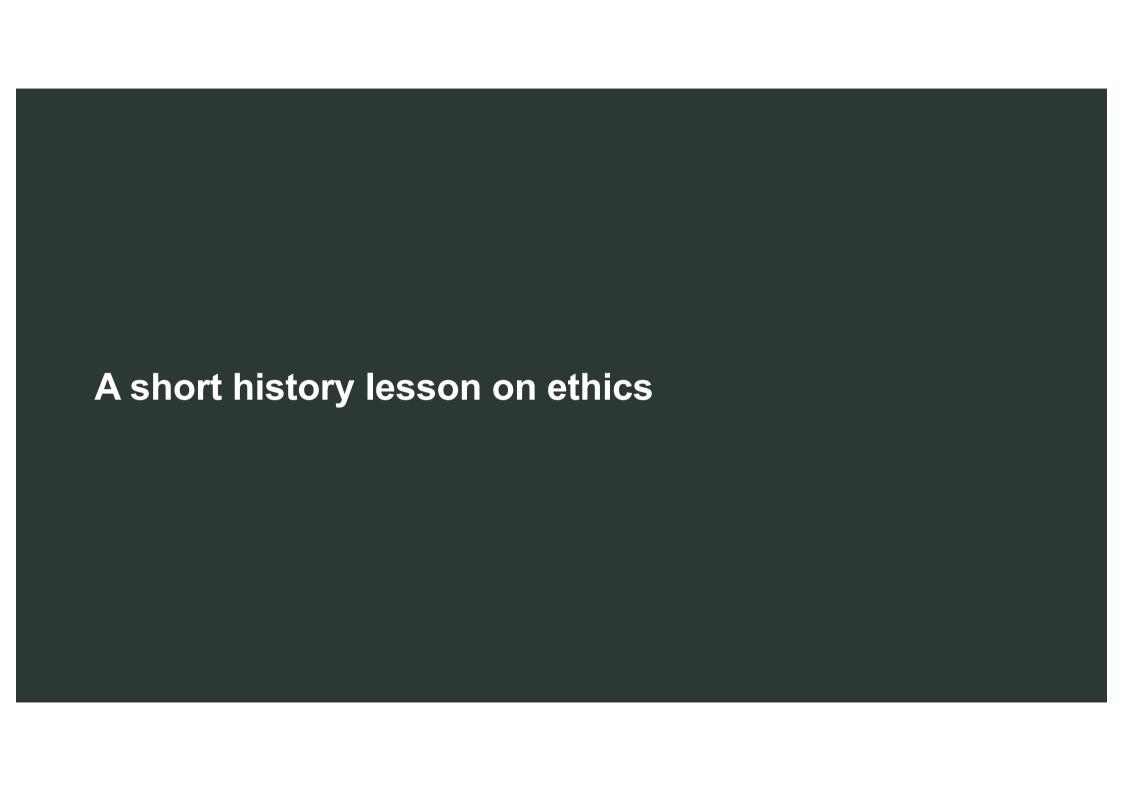
The Menlo Report

Ethical Principles Guiding Information and Communication Technology Research

August 2012



The only real way to know if your interface works is to test it on humans. Which means that we are regularly performing human experiments. Which naturally leads to ethics issues...



Tuskegee Syphilis Experiment

- Between 1932 and 1972 the US Public Health Service conducted a study on untreated syphilis
- 600 African American men in Alabama were given free medical care and food for participating
- They were told it was a 6 month study on "bad blood", but it actually lasted 40 years
- They were never told that they had syphilis, even though the researchers knew that they did
- A cure was found in the 1940's, but Tuskegee patients were prevented from gaining access to it
- 28 participants died of syphilis, 100 died of related complications, 40 wives contracted syphilis, and 19 children were born with congenital syphilis

History of ethics

- 1972 Tuskegee study ended
- 1974 US Congress created a commission to study research ethics and write regulations around ethics
- 1978 Belmont Report officially released detailing a set of guidelines around what "ethical" research on humans looks like
- 1981 Common Rule went into effect in the US regarding biomedical and behavioral research involving human subjects.
- 2010 All researchers working on US funded grants must go through ethics training
- 2012 Menlo Report officially published. Update to the Belmont Report focusing on ICT research

The Belmont Report (1974)

Respect for persons

 Protecting the autonomy of all people and treating them with courtesy and respect and allowing for informed consent. Researchers must be truthful and conduct no deception

Beneficence

• The philosophy of "Do no harm" while maximizing benefits for the research project and minimizing risks to the research subjects

Justice

 Ensuring reasonable, non-exploitative, and well-considered procedures are administered fairly — the fair distribution of costs and benefits to *potential* research participants — and equally.

The Menlo Report (2012)

	Principle	Application
ResBerJusRes		Participation as a research subject is voluntary, and follows from informed consent; Treat individuals as autonomous agents and respect their right to determine their own best interests; Respect individuals who are not targets of research yet are impacted; Individuals with diminished autonomy, who are incapable of deciding for themselves, are entitled to protection.
	Beneficence	Do not harm; Maximize probable benefits and minimize probable harms; Systematically assess both risk of harm and benefit.
	Justice	Each person deserves equal consideration in how to be treated, and the benefits of research should be fairly distributed according to individual need, effort, societal contribution, and merit; Selection of subjects should be fair, and burdens should be allocated equitably across impacted subjects.
	Respect for Law and Public Interest	Engage in legal due diligence; Be transparent in methods and results; Be accountable for actions.

Guest Lecturer:
Jack West, Ph.D. student at University of Wisconsin-Madison
Research focus: User privacy, security, OS, reverse engineering
Talk: Al Models On Mobile Phones: What they do,

Why they're there, and How They Work