

DATA ETHICS LECTURE 2

RECAP DATA COLLECTION

PREVIEW PROMISES

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March 17, 2022

ROADMAP FOR TODAY

- Administrivia
- Recap Data Collection
- Preview Promises
- Discuss 1 or 2 promises
- Preview readings for 1-2 topics

ADMIN-Y THINGS

- **Canvas**

everyone should have access now, if that's not the case then let me know!

- **Readings**

More readings available on Canvas as PDFs

- **Reading time check**

How long did readings take?

→ google docs noisy survey

check the zoom chat for a link

DATA COLLECTION (RECAP)

CONSENT

legally
ambiguous data
collection



The illustration depicts a red mobile application screen. At the top, there are two white buttons: "What Is Depression?" on the left and "Message Us" on the right. Below these are two larger white buttons: "Message A Crisis Counselor On WhatsApp" in the center and "Text A Crisis Counselor" on the left. To the right of the center button is a partially visible button labeled "Symptoms". The background is a textured red color.

POLITICO

TECHNOLOGY

Suicide hotline shares data with for-profit spinoff, raising ethical questions

The Crisis Text Line's AI-driven chat service has gathered troves of data from its conversations with people suffering life's toughest situations.

By ALEXANDRA S. LEVINE
01/28/2022 04:30 AM EST
Updated: 01/27/2022 05:16 PM EST

f t e ...

Crisis Text Line is one of the world's most prominent mental health support

CONSENT

legally
ambiguous data
collection

June 15, 2021 12:00AM EDT

Available In English [\[more\]](#)

UN Shared Rohingya Data Without Informed Consent

Bangladesh Provided Myanmar Information that Refugee Agency Collected

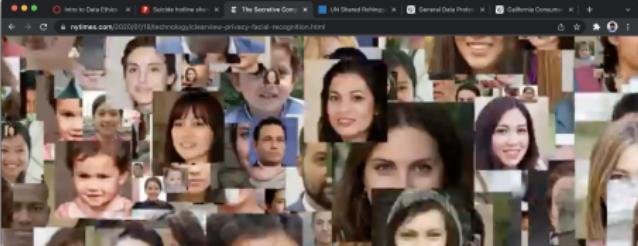
[f](#) [t](#) [g](#) [e](#) [\[share\]](#)



Rohingya refugees headed to Bhasan Char island prepare to board navy vessels from the southeastern port city of Chittagong, Bangladesh on February 15, 2021. © 2021 AP Photo

CONSENT

legally
ambiguous data
collection



Adam Ferriss

The Secretive Company That Might End Privacy as We Know It

A little-known start-up helps law enforcement match photos of unknown people to their online images — and “might lead to a dystopian future or something,” a backer says.

Give this article   1.2K

 By **Kashmir Hill**

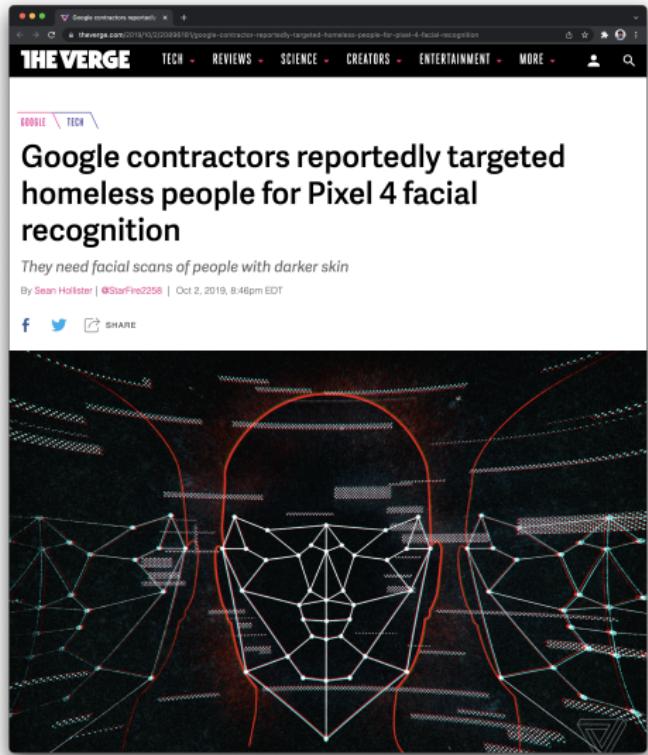
Published Jan. 18, 2020 Updated Nov. 2, 2021

Leer en español

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collection



The Verge

TECH ▾ REVIEWS ▾ SCIENCE ▾ CREATORS ▾ ENTERTAINMENT ▾ MORE ▾

GOOGLE ▾ TECH ▾

Google contractors reportedly targeted homeless people for Pixel 4 facial recognition

They need facial scans of people with darker skin

By Sean Hollister | @StarFire2258 | Oct 2, 2019, 8:46pm EDT

f t SHARE

CONSENT

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ambiguous data
collection

Screenshot of a web browser showing the Wikipedia page for "General Data Protection Regulation". The page title is "General Data Protection Regulation" and it is described as "From Wikipedia, the free encyclopedia". The page content discusses the GDPR as a regulation in EU law on data protection and privacy in the European Union (EU) and the European Economic Area (EEA). It highlights the GDPR's importance as a privacy law and its relationship to other EU laws like the Charter of Fundamental Rights of the European Union. The page also notes the GDPR's supersession of the Data Protection Directive 95/46/EC.

The right side of the screen displays a summary of the "Regulation (EU) 2016/679" (GDPR) under the heading "Regulation (EU) 2016/679". The summary includes sections for "Title", "European Union regulation", "Text with EEA relevance", "Title", "Regulation on the protection of natural persons with regard to the processing of personal data of individuals and on the free movement of such data, and repealing Directive 95/46/EC (Data Protection Directive)", "Made by", "European Parliament and Council of the European Union", "Journal reference", "L119, 4 May 2016, p. 1–88⁶", "History", "Date made", "14 April 2016", "Implementation date", "25 May 2018", "Preparative texts", "Commission proposal", "COM(2012)010 final – 2012/010 (CDD)", "Other legislation", "Replaces", "Data Protection Directive", and "Current legislation".

CONSENT

legally
ambiguous data
collection

Screenshot of a Wikipedia page about the California Consumer Privacy Act (CCPA) on a Mac OS X system.

The page title is "California Consumer Privacy Act". The sidebar on the left contains links such as Main page, Contents, Current events, Random article, About Wikipedia, Contact us, Donate, Contribute, Help, Learn to edit, Community portal, Recent changes, Upload file, Tools, What links here, Related changes, Special pages, Permanent link, Page information, Cite this page, Wikipedia logo, Print/export, Download as PDF, Printable version, Languages, Esperanto, Français, Português, 中文, and Edit links.

The main content area starts with a brief summary: "The California Consumer Privacy Act (CCPA) is a state statute intended to enhance privacy rights and consumer protection for residents of California, United States. The bill was passed by the California State Legislature and signed into law by Jerry Brown, Governor of California, on June 28, 2018, to amend Part 4 of Division 3 of the California Civil Code.^[1] Officially called AB-375, the act was introduced by Ed Chau, member of the California State Assembly, and State Senator Robert Hertzberg.^{[3][4]}"

It continues to describe the act's history, mentioning amendments in 2019 and its effective date in January 2020. It also notes the passage of Proposition 24 in November 2020, which amends and expands the CCPA.^[5]

A sidebar on the right provides detailed legislative information:

California Consumer Privacy Act	
	
California State Legislature	
Full name	California Consumer Privacy Act of 2018 ^[1]
Introduced	January 3, 2018
Signed into law	June 28, 2018
Governor	Jerry Brown
Code	California Civil Code
Section	1796.100
Resolution	AB-375 (2017–2018 Session)
Website	Assembly Bill No. 375 ^[6]
Status: Current legislation	

The "Status: Current legislation" row is highlighted in green.

The "Intention of the Act" section is expanded, stating: "The intentions of the Act are to provide California residents with the right to: 1. Know what personal data is being collected about them."

SURVEILLANCE

coercive
settings

The New York Times

CRITIC'S NOTEBOOK

Dance, I Said — Dance! And Leave the Package on the Porch.

The combination of next-day delivery, Ring surveillance footage and TikTok has put a spotlight on Amazon drivers. But it's also created a new main character: the package itself.

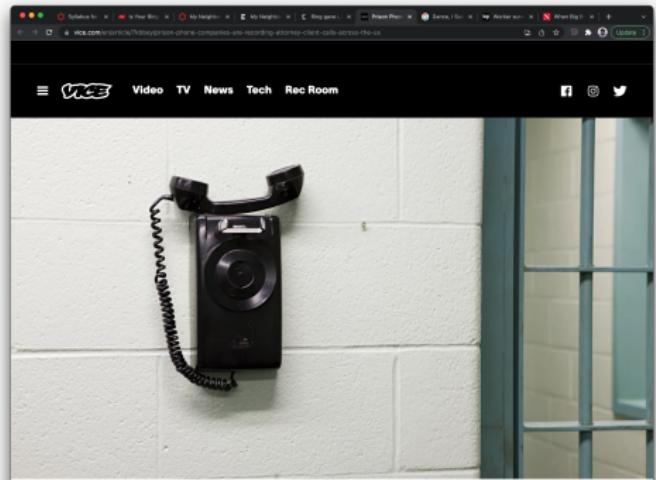
09:22

Give this article 29

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A black telephone is mounted on a light-colored brick wall in a prison setting. The phone has a handset connected by a coiled cord. To the right, a metal jail cell door is visible.

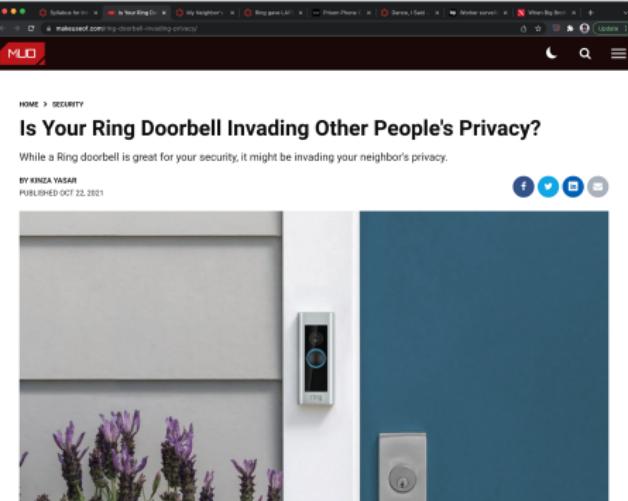
MOTHERBOARD
TECH BY VICE

Prison Phone Companies Are Recording Attorney-Client Calls Across the US

Lawyers say their conversations with incarcerated people are being recorded and analyzed by private companies in at least nine US states.

SURVEILLANCE

coercive
settings



HOME > SECURITY

Is Your Ring Doorbell Invading Other People's Privacy?

While a Ring doorbell is great for your security, it might be invading your neighbor's privacy.

BY KINZA YASAR
PUBLISHED OCT 22, 2021

A doctor in the UK recently won a case and a possible £100,000 pay-out after a judge ruled that a neighbor's Ring doorbell breached her right to privacy.

Most homeowners want to secure their homes from burglars and thieves. As a result, the use of outdoor surveillance camera systems including Ring doorbells is mushrooming around neighborhoods. But sadly, many people do not take their neighbors into consideration when installing high-tech gadgets around their properties.

So, does a Ring doorbell actually risk other people's privacy, and how? Should there be rules regarding the way your Ring doorbell is installed so it doesn't infringe on your neighbor's privacy?

[Can Your Ring Doorbell Invade Other's Privacy?](#)

SURVEILLANCE

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settings

The New York Times

ASK REAL ESTATE

My Neighbor's Door Camera Faces My Apartment. Is That Legal?

Rental tenants typically cannot install cameras — or anything else — in common hallways. But landlords can.

Give this article 311



Nadia Pilon

By Ronda Kaysen

Aug. 28, 2021

Q: I live in a six-story rental building in Washington Heights, with five apartments per floor. My neighbor across the hall installed a [Ring camera](#) that captures the entire floor. It faces my apartment directly, providing a clear view inside whenever I open the door. Aside from the fact that it's uncomfortable knowing that all my comings and goings are being recorded, I wonder if this is legal. What can I do about it?

A: Your neighbor does not have the right to place anything in the hallway, including a door camera, without the landlord's consent.

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The illustration features a white and black Ring video doorbell camera in the foreground, angled towards the right. Superimposed over the background are several screenshots of email correspondence. One prominent screenshot shows a circular badge for a 'POLICE OFFICER LOS ANGELES POLICE' with a star in the center. Another screenshot displays an email from 'Jordan Martinez' to 'Ring Support' dated April 26, 2016, at 10:47 PM, discussing a promotional offer for Ring cameras to LAPD officers. Other emails show discussions about Ring's 'neighbors' feature and its potential use in law enforcement. The overall theme is the intersection of consumer surveillance technology and law enforcement.

(Los Angeles Times Illustration; photograph by Rick Meyer / Los Angeles Times)

BY JOHANA BHUYIAN | LOS ANGELES TIMES EXCLUSIVE

JUNE 17, 2023 5 AM PT

FOR SUBSCRIBERS

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SURVEILLANCE

coercive
settings

The Washington Post logo is visible at the top right of the browser window.

Tech at Work

Keystroke tracking, screenshots, and facial recognition: The boss may be watching long after the pandemic ends

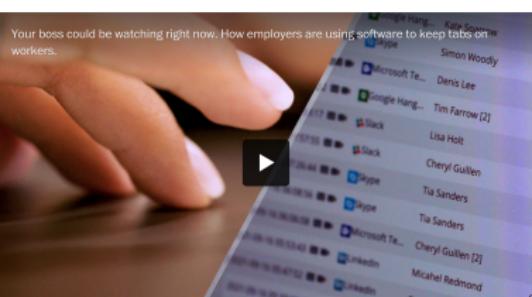
What workers should know about corporate surveillance software as companies consider permanent remote work policies

By Danielle Abril and Drew Harwell

September 24, 2021 at 7:00 a.m. EDT

Listen to article 8 min

Your boss could be watching right now. How employers are using software to keep tabs on workers.



Businesses are turning to software that can track remote employees' productivity. But the tools can also record their keystrokes, screens and even audio. (Jonathan Borba/The Washington Post)

Share, Print, Email icons at the bottom.

CONTEXT

data without
context

The New York Times

Why Stanford Researchers Tried to Create a 'Gaydar' Machine

Give this article    69



Michal Kosinski and Yilun Wang, co-authors of a study that claims to show that a computer program can detect sexual orientation from photos of faces. Christie Hemm Klok for The New York Times

By Heather Murphy

CONTEXT

data without
context

Screenshot of a news article from the Thomson Reuters Foundation website.

The article title is: **Sentenced for a selfie: Middle East police target LGBTQ+ phones**.

The byline reads: **by Maya Gebelly and Avi Asher-Schapiro | [@GebellyM](#) | Thomson Reuters Foundation**

The date is: **Monday, 7 March 2022 01:00 GMT**



A photograph showing two individuals sitting on a bench outdoors. They are positioned in front of a large, horizontal rainbow flag. The flag is composed of several distinct horizontal stripes of different colors. The people appear to be in a public space, possibly a park or a street, with some foliage visible in the background.

WhatsApp, Grindr and Facebook were once a place that gay, bisexual and trans Arabs could find

CONTEXT

data without
context

See Through Walls with Wi-Fi!

Fadel Adib and Dina Katabi
Massachusetts Institute of Technology
[fadel,dk]@mit.edu

ABSTRACT

Wi-Fi signals are typically information carriers between a transmitter and a receiver. In this paper, we show that Wi-Fi can also extend our senses, enabling us to see moving objects through walls and behind closed doors. In particular, we can use such signals to identify the presence of people and objects in locations far from their locations. We can also identify simple gestures made behind a wall, and combine a sequence of gestures to communicate messages to a wireless receiver without carrying any transmitting device. The paper introduces two main innovations. First, it shows how one can use MIMO antennas to eliminate reflections from metallic objects and focus the receiver on a moving target. Second, it shows how one can track a human by creating a motion of a human body as an antenna array and tracking the resulting RF beam. We demonstrate the validity of our design by building it into USRP software radio and testing it in office buildings.

Categorization and Subject Descriptors: C.2.2 [Computer Systems Organization]: Computer Communications; Networks; H.5.2.5 [Information Interfaces and Presentation]: User interfaces - Input devices and strategies.

Keywords: Seeing Through Walls, Wireless, MIMO, Gesture-based User Interface

1. INTRODUCTION

Can Wi-Fi signals enable us to see through walls? For many years humans have fantasized about X-ray vision and played with the concept in comic books and sci-fi movies. This paper explores the potential of using Wi-Fi signals and recent advances in MIMO communications to build a device that can capture the motion of humans behind a wall and in closed rooms. Law enforcement personnel can use the device to avoid walking into an ambush, and minimize casualties in standoffs and hostage situations. Emergency responders can use it to navigate through collapsed structures. Ordinary users can leverage the device for gaining intrusion detection, privacy-enhanced monitoring of children and elderly, or personal security when stepping into dark alleys and unknown places.

The challenge of seeing through opaque materials is similar to radar and sonar imaging. Specifically, when there is no non-metallic wall, a fraction of the RF signal would penetrate the wall, reflect off objects and humans, and come back imprinted with a signature of what is inside a closed room. By capturing these reflections, we can image objects behind a wall. Building a device that can capture such reflections, however, is difficult because the signal power after traversing the wall twice (in and out of the room) is reduced by three to five orders of magnitude [11]. Even more challenging are the reflections from the wall itself, which are much stronger than the reflections from objects inside the room [11, 27]. Reflected off the wall overwhelm the receiver's analog-to-digital converter (ADC), preventing it from registering the minute variations due to reflections from objects behind the wall. This behavior is called the "Flash Effect" since it is analogous to how a mirror in front of the camera reflects the camera's flash and prevents it from capturing objects in the scene.

So how can one overcome these difficulties? The radar community has been investigating these issues, and has recently introduced a few other techniques. One approach can involve placing a thin metal plate behind the wall, and show them as black moving in a dim background [27, 41] (see the video at [6] for a reference). Today's state-of-the-art system requires 2 GHz of bandwidth, a large power source, and a 4-8 foot-long antenna array (2.4 meters) [12, 27].

Given the bulkiness of the device, operating power in such a wide spectrum is infeasible and impractical for other applications. The requirement for multi-GHz transmission is at the heart of how these systems work: they separate reflections off the wall from reflections from objects behind the wall based on their arrival times. They also need to identify sub-microsecond differences in multi-GHz bandwidth to filter the flash effect.¹ To address these limitations, an initial attempt was made in 2012 to see Wi-Fi to see through a wall [13]. However, to mitigate the flash effect, this post proposal needs to install an additional receiver behind the wall, and connect the two receivers behind and in front of the wall to a front end via wires [13].

The objective of this paper is to enable a see-through-wall technology that is low-bandwidth, low-power, compact, and accessible to ordinary users. To this end, the paper introduces Wi-Vi, a see-through-wall device that enjoys Wi-Fi signals in the 2.4 GHz ISM band. Wi-Vi limits itself to a 20 MHz-wide Wi-Fi channel, and avoids ultra-wideband solutions used today to address the flash effect. It also dispenses of the multi-GHz bandwidth, typical in past systems, and instead uses a smaller 3-antenna MIMO.

So, how does Wi-Vi eliminate the flash effect without using GHz of bandwidth? We observe that we can adapt recent advances in MIMO communications to through-wall imaging. In MIMO, multiple antennas are used to send multiple signals to the same receiver. If the signal is nulled (i.e., sums up to zero) at a particular receive antenna, MIMO uses this capability to eliminate interference to unwanted receivers. In contrast, we use nulling to eliminate reflections from static objects, including the wall. Specifically, a Wi-Vi receiver starts with two antennas and a ground plane. Wi-Vi operates in two stages. In the first stage, it measures the channels from each of its two transmit antennas to its receive antenna. In stage 2, the two transmit antennas use the channel measurements from stage 1 to null the signal at the receive antenna. Since wireless signals (including reflections) combine linearly over the medium, only reflect-

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CONTEXT

data without
context

arXiv:1803.09010v8 [cs.DB] 1 Dec 2021

The screenshot shows a dark-themed desktop environment with a window titled "Datasheets for Datasets". The window contains the following text:

1803.09010.pdf (page 1 of 18)

Datasheets for Datasets

TIMNIT GEBRU, Black in AI
JAMIE MORGENSTERN, University of Washington
BRIANA VECCHIONE, Cornell University
JENNIFER WORTMAN VAUGHAN, Microsoft Research
HANNA WALLACH, Microsoft Research
HAL DAUMÉ III, Microsoft Research; University of Maryland
KATE CRAWFORD, Microsoft Research

1 Introduction

Data plays a critical role in machine learning. Every machine learning model is trained and evaluated using data, quite often in the form of static datasets. The characteristics of these datasets fundamentally influence a model's behavior: a model is unlikely to perform well in the wild if its deployment context does not match its training or evaluation datasets, or if these datasets reflect unwanted societal biases. Mismatches like this can have especially severe consequences when machine learning models are used in high-stakes domains, such as criminal justice [1, 13, 24], hiring [19], critical infrastructure [11, 21], and finance [18]. Even in other domains, mismatches may lead to loss of revenue or public relations setbacks. Of particular concern are recent examples showing that machine learning models can reproduce or amplify unwanted societal biases reflected in training datasets [4, 5, 12]. For these and other reasons, the World Economic Forum suggests that all entities should document the provenance, creation, and use of machine learning datasets in order to avoid discriminatory outcomes [25].

Although data provenance has been studied extensively in the databases community [3, 8], it is rarely discussed in the machine learning community. Documenting the creation and use of datasets has received even less attention. Despite the importance of data to machine learning, there is currently no standardized process for documenting machine learning datasets.

To address this gap, we propose *datasheets for datasets*. In the electronics industry, every component, no matter how simple or complex, is accompanied with a datasheet describing its operating characteristics, test results, recommended usage, and other information. By analogy, we propose that every

CONTEXT

data without
context

The screenshot shows a Mac OS X desktop with a window titled "GROUP_0001_design_fiction_Footer.pdf [page 1 of 151]". The main content of the window is a research paper. At the top right of the paper is the number "249". The title of the paper is "Ethical Considerations for Research Involving (Speculative) Public Data" by CASEY FIESLER, University of Colorado Boulder, USA. The abstract discusses the increasing prevalence of researchers having access to rich data about human behavior and how design fiction can frame current inquiry and debate into the ethics of using public data for research. Below the abstract, under "CCS Concepts", is the entry "Security and privacy → Social aspects of security and privacy". Under "Additional Key Words and Phrases" are listed: design fiction; ethics; lifelogging; privacy; public data; social computing; research ethics; research methods; quantified self. Under "ACM Reference Format", it lists: Casey Fiesler. 2019. Ethical Considerations for Research Involving (Speculative) Public Data. *Proc. ACM Hum.-Comput. Interact.* 3, GROUP, Article 249 (December 2019), 13 pages. <https://doi.org/10.1145/3370271>. A section titled "1 Author's Introductory Notes" begins with a paragraph about the challenges of research ethics in the digital age, mentioning the Facebook emotional contagion study, university researchers collecting facial recognition data, and photos mined from dating sites. It notes that while traditional notions of research ethics focused on harm to individual subjects, modern research often involves harm to groups or entire populations through direct interaction with participants. The paragraph concludes by stating that while harms may be more indirect and less foreseeable, they can still have negative consequences. The final sentence of the page reads: "One possible avenue for addressing this challenge is through design fiction, which has been used to explore the potential outcomes of new design work, including the creation of fictional stories or papers that provide a space for critique [9]. Design fiction methods can encourage anticipation of and reflection about the potential downsides of technology design, research, and implementation [64]; indeed, reflection about speculative designs has been successful in encouraging technologists to consider how their practices might play out in the future [77]. Drawing from these ideas, the fictional paper that follows tackles the issue of research ethics and possible harms by exploring a

Author's address: Casey Fiesler, University of Colorado Boulder, Department of Information Science, Boulder, CO, 80309,

LEGAL ≠ ETHICAL

LEGAL ≠ ETHICAL

...but...

LEGAL \neq ETHICAL

...but...

law **can be** informative

LOTS OF GREAT REFLECTIONS

REPUGNANCE

REPUGNANCE
POTENTIAL FOR
HARM

REPUGNANCE
POTENTIAL FOR
HARM
MISLEADING

REPUGNANCE
POTENTIAL FOR
HARM
MISLEADING

REPUGNANCE
POTENTIAL FOR
HARM
MISLEADING
FALSE
PRETENSES

REPUGNANCE
POTENTIAL FOR
HARM

EXPLOITATION

MISLEADING
FALSE
PRETENSES

REPUGNANCE
POTENTIAL FOR
HARM
MISLEADING
FALSE
PRETENSES

EXPLOITATION
FIRING
PERSONNEL

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EXPLOITATION
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EXPLOITATION
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SPEED OF TECH

REPUGNANCE
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INTENT VS
OUTCOME

REPUGNANCE
POTENTIAL FOR
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INTENT VS
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VULNERABILITY

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PRETENSES

EXPLOITATION
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INTENT VS
OUTCOME
INCENTIVES
VULNERABILITY

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MISLEADING
FALSE
PRETENSES

EXPLOITATION
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CYA
SPEED OF TECH

INTENT VS
OUTCOME
INCENTIVES
VULNERABILITY
MISUSE

REPUGNANCE		INTENT VS
POTENTIAL FOR	EXPLOITATION	OUTCOME
HARM	FIRING	INCENTIVES
MISLEADING	PERSONNEL	VULNERABILITY
FALSE	CYA	MISUSE
PRETENSES	SPEED OF TECH	APPARENT PLAN (OR LACK OF?)

REPUGNANCE		INTENT VS
POTENTIAL FOR	EXPLOITATION	OUTCOME
HARM	FIRING	INCENTIVES
MISLEADING	PERSONNEL	VULNERABILITY
FALSE	CYA	MISUSE
PRETENSES	SPEED OF TECH	APPARENT PLAN (OR LACK OF?)

“SHOULDN’T REGULATORS HAVE GOTTEN INVOLVED?”

REPUGNANCE		INTENT VS
POTENTIAL FOR	EXPLOITATION	OUTCOME
HARM	FIRING	INCENTIVES
MISLEADING	PERSONNEL	VULNERABILITY
FALSE	CYA	MISUSE
PRETENSES	SPEED OF TECH	APPARENT PLAN (OR LACK OF?)

“SHOULDN’T REGULATORS HAVE GOTTEN INVOLVED?”

“...THE LAWS WE HAVE TODAY ARE FROM TO 1970’S?”

**THE ISSUES YOU ENCOUNTER
WILL BE REAL**

PHILOSOPHICAL FRAMEWORKS

CONSEQUENTIALISM

DEONTOLOGY

VIRTUE ETHICS

PHILOSOPHICAL FRAMEWORKS

CONSEQUENTIALISM

EVALUATE BY OUTCOMES

DEONTOLOGY

VIRTUE ETHICS

PHILOSOPHICAL FRAMEWORKS

CONSEQUENTIALISM

EVALUATE BY OUTCOMES

DEONTOLOGY

ASPIRE TO RULES

VIRTUE ETHICS

PHILOSOPHICAL FRAMEWORKS

CONSEQUENTIALISM

EVALUATE BY OUTCOMES

DEONTOLOGY

ASPIRE TO RULES

VIRTUE ETHICS

ASPIRE TO VIRTUES

PHILOSOPHICAL FRAMEWORKS

CONSEQUENTIALISM

EVALUATE BY OUTCOMES

DEONTOLOGY

ASPIRE TO RULES

VIRTUE ETHICS

ASPIRE TO VIRTUES

HOW DO THESE PHILOSOPHIES INFORM...

CTL? RING? GAYDAR? GOOGLE?

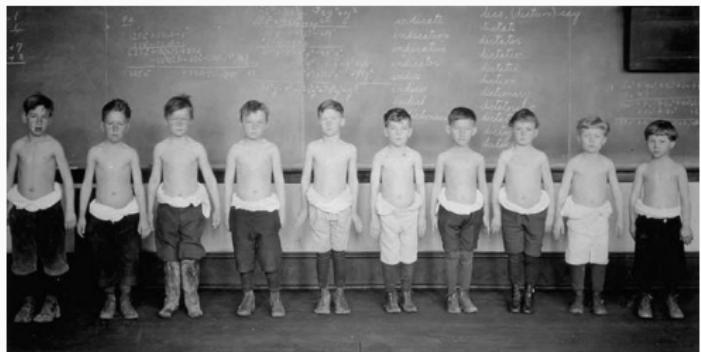
HISTORICAL CONTEXTUALIZATION

Henrietta Lacks



HISTORICAL CONTEXTUALIZATION

Quaker Oats



HISTORICAL CONTEXTUALIZATION

Tuskegee
experiments



HISTORICAL CONTEXTUALIZATION

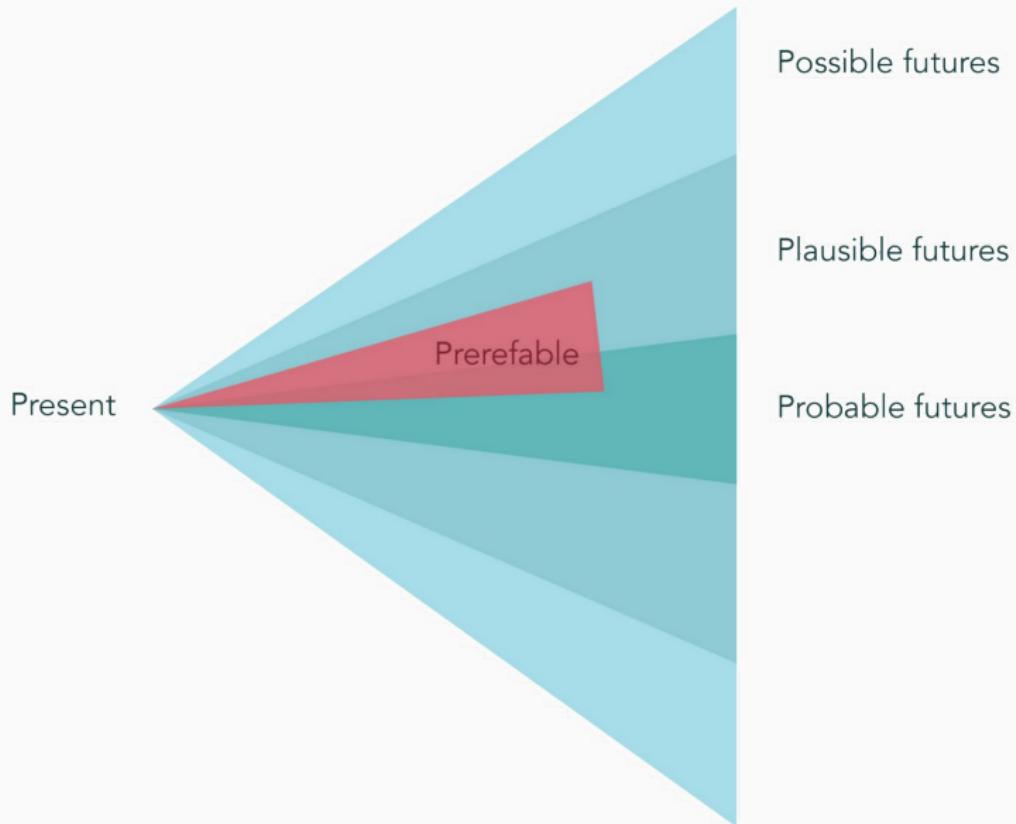
HUMAN DIGNITY AND AUTONOMY

HISTORICAL CONTEXTUALIZATION

HUMAN DIGNITY AND AUTONOMY

INFORMED CONSENT

SPECULATIVE DESIGN



SOME “PROVOCATIONS”

a quick caveat about “provocations”

SOME “PROVOCATIONS”

What are the risks of allowing the private sector to gather so much sensitive data?

Does anyone else feel uncomfortable about statements about suicide prevention efforts using phrases like “piloting a tailored solution” and “evaluating data trends”?

When do we know that an issue having to do with privacy and surveillance has been adequately addressed?

At what point do the negatives of a technology that gathers data outweigh the positives? or vice versa?

PROMISES

PROMISES OF DATA SCIENCE

- AI will **understand** the world better than humans can
- AI can make **more objective** or **fairer** decisions than people can