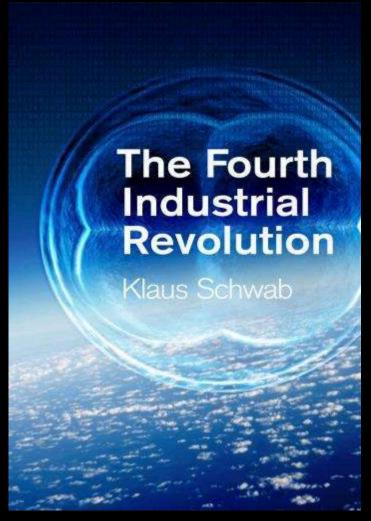


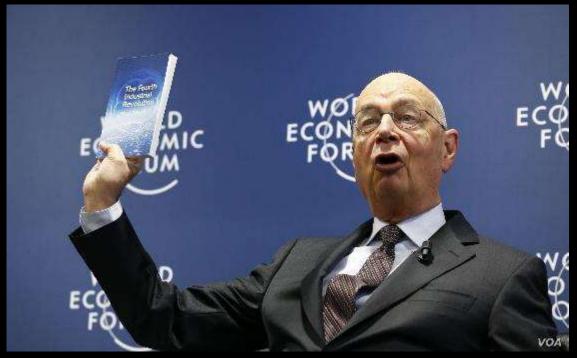
## Design Justice & Smart-Enough Cities

Sasha Costanza-Chock (pronouns: they/them or she/her)

Associate Professor of Civic Media, Massachusetts Institute of Technology

@schock
#DesignJustice
#SCEWC2019
Slides: https://bit.ly/DJ-SCEWC2019





Klaus Schwab, Founder & Executive Chairman, World Economic Forum (2015 article, 2017 book)

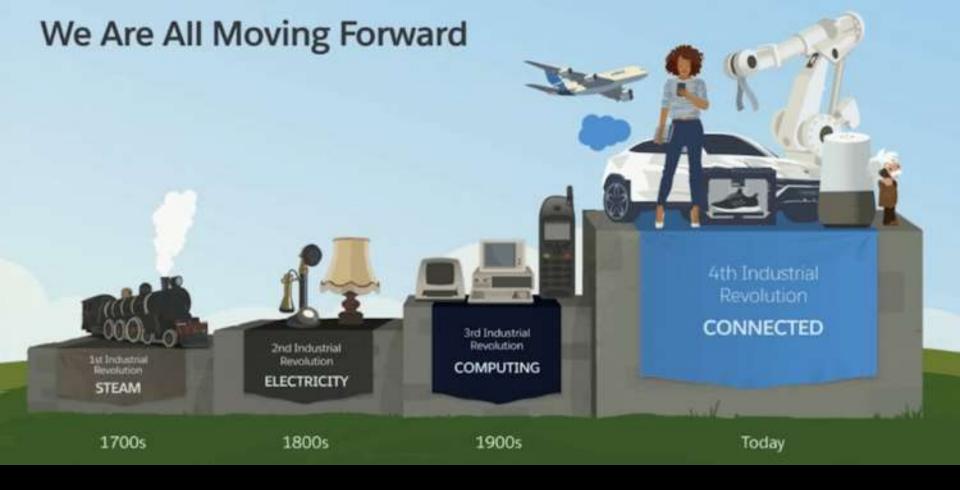
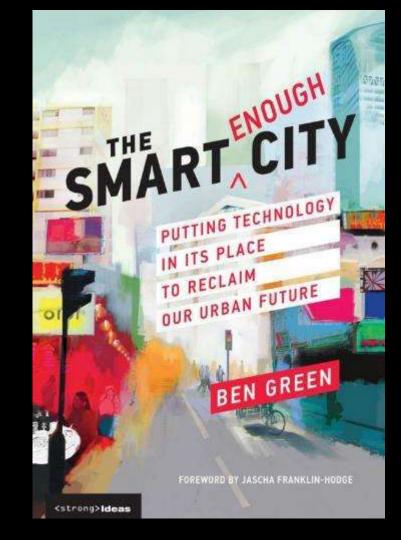
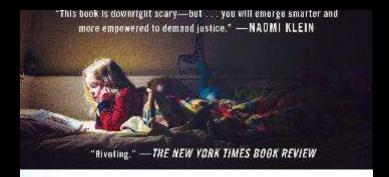


Image source: Salesforce Blog https://www.salesforce.com/blog/2018/12/what-is-the-fourth-industrial-revolution-4IR.html

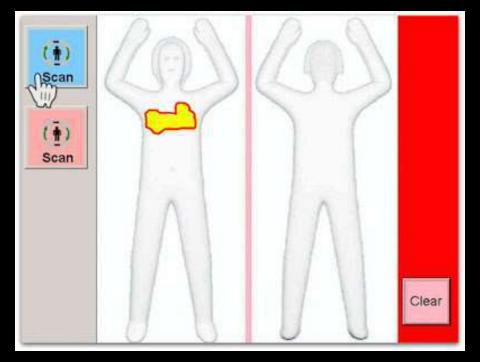




#### AUTOMATING INEQUALITY

HOW HIGH-TECH TOOLS PROFILE, POLICE, AND PUNISH THE POOR





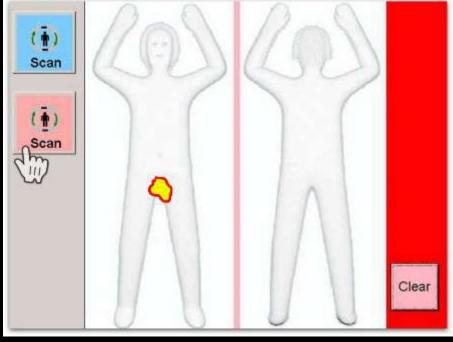
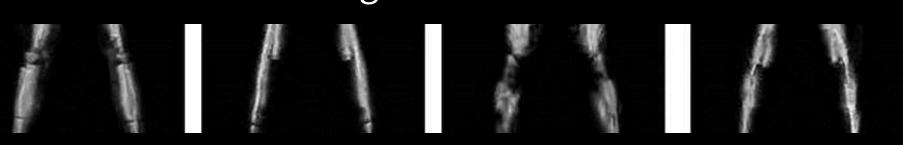
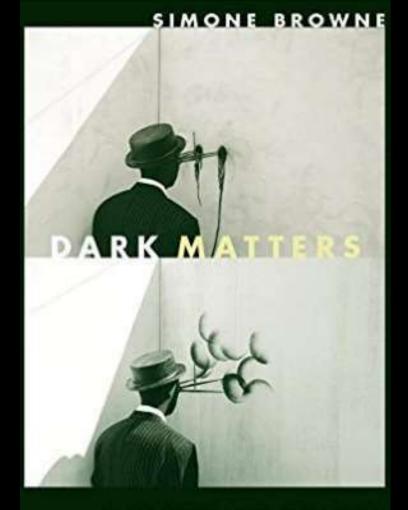


Image: 'Anomalies' highlighted in millimeter wave scanner interface, from "Traveling While Trans: The False Promise of Better Treatment," by Dr. Cary Gabriel Costello (2016). transadvocate.com/the-tsa-a-binary-body-system-in-practice\_n\_15540.htm









#### Joy Buolamwini

**Computer Scientist and Digital Activist** 



Our individual encounters with bias embedded into coded systems - a phenomenon I call the "coded gaze" are only shadows of persistent problems with inclusion in tech and in machine learning. @OJTCODE

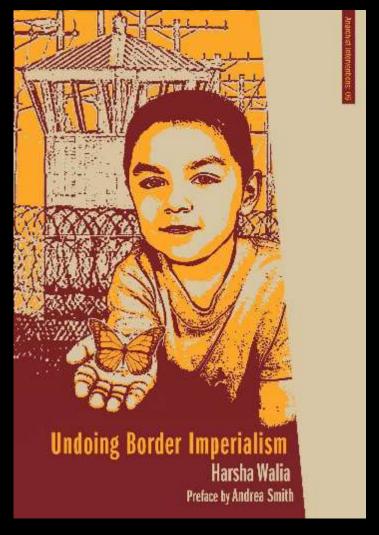
ON THE SURVEILLANCE OF BLACKNESS

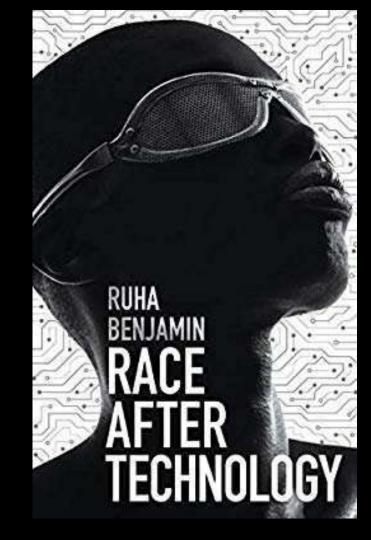




Vasco Núñez de Balboa in 1513, setting his dogs to devour 40 Quarequa thirdgender people (presentday Panama) who he read as men in women's clothing.

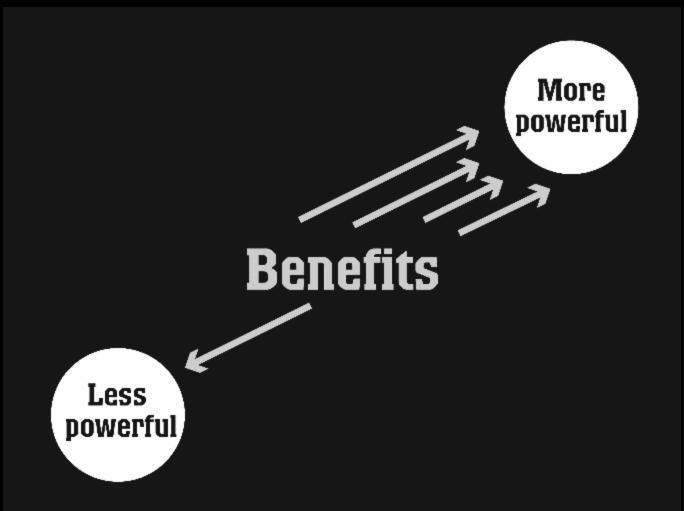
Pub. 1594 by Theodor deBry in *Americae Pars Qvarta*. Source: Marcia Ochoa, colorado.edu/genders/2016/05/19/los-huecos-negros-cannibalism-sodomy-and-failure-modernity-tierra-firme

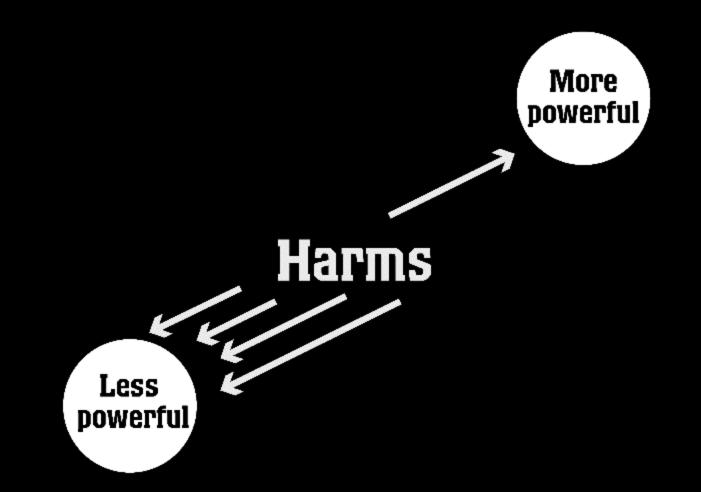




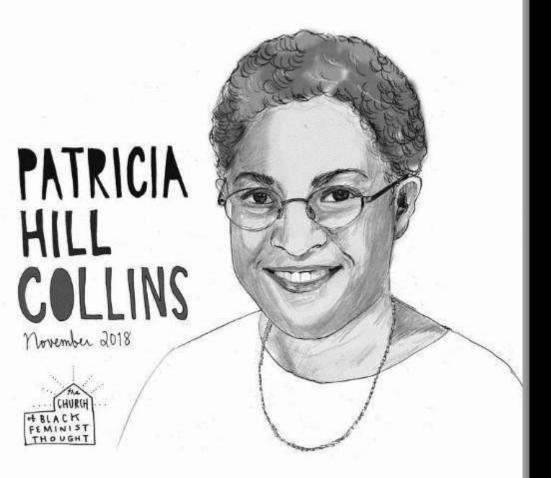


Design justice is a framework for analysis of how the design of sociotechnical systems influences the distribution of benefits and burdens between various groups of people.





Design justice focuses explicitly on how design reproduces and/or challenges the matrix of domination (Patricia Hill Collins): white supremacy, heteropatriarchy, capitalism, ableism, settler colonialism, and other forms of structural inequality.



# BLACK FEMINIST THOUGHT

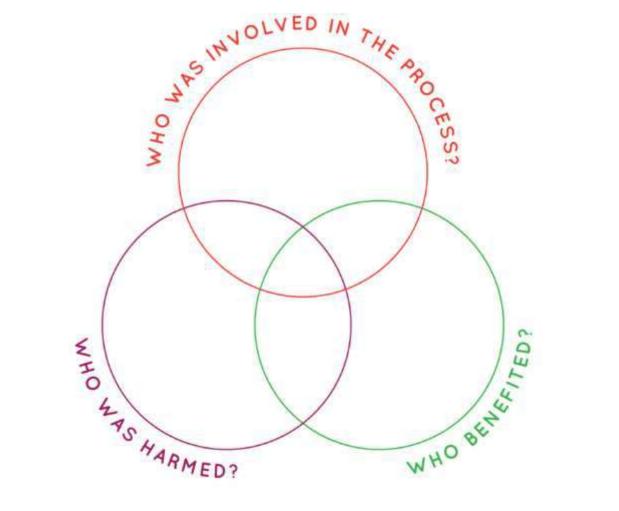


Knowledge, Consciousness, and the Politics of Empowerment

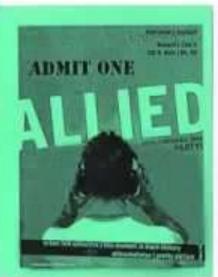
SECOND EDITION

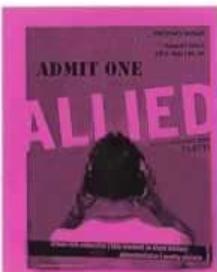
**Patricia Hill Collins** 

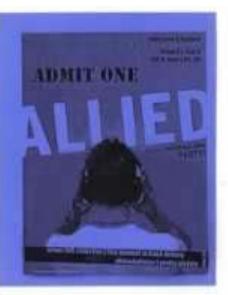
Design justice is a growing community of **practice** that focuses on the equitable distribution of design's benefits and burdens; meaningful participation in design decisions; and recognition of communitybased, indigenous, & diasporic design traditions, knowledge, and practices.





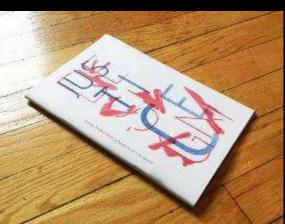


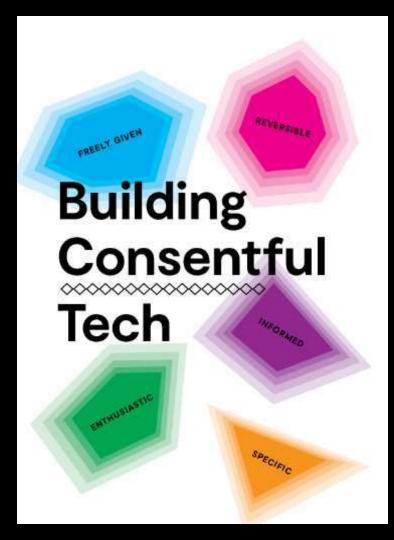












## Consent from the ground up

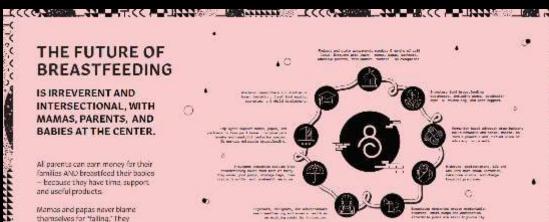
How might the technologies we are most reliant upon look if they were designed with consent at their core? What if, before writing a single line of code, the following questions were asked:

Are people **Freely** giving us their consent to access and store parts of their digital bodies? Can potentially harmful personal information about a person be displayed or stored without their consent?

Does our system allow for **Reversible** consent? How easy is it for people to withdraw both their consent and their data?

How are we fully and clearly **Informing** people about what they're consenting to? Is important information about the risks a user might be exposed to buried in the fine print of the terms & conditions?

How are we making sure that the consent is Enthusiastic? Is there an option not to use this technology, which means that people use it because they prefer to use it? In many places one can only access social service benefits online. Declining to register with these online services is not an option for those who need these benefits most.





demand and get more from the broken systems around them.

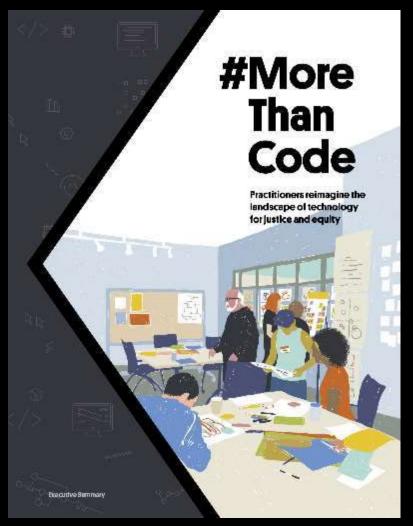


MATERIAL PROPERTY.





Make the Breast Pump Not Suck Hackathon & Policy Summit





## Nothing About Us Without Us

Adopt Co-Design Methods and Concrete Community Accountability Mechanisms.

2. From Silver Bullets to Useful Tools

Change the Narrative, Lead with Values, and Recognize Multiple Frames and forms Across the Separation.





#RealDiversityNumbers

Adopt proven strategies for diversity and inclusion.

4.
Developers,
Developers?

Recognize Offerent Rober and Expertise in Rech Work, and Support Alternative Pathways to Participation





Coops, Collectives, and Networks, Oh Myl

> Support Alternative Models Beyond Startups, Government Offices, and Incorporated Nonprofits.

#### co-design

civic media: collaborative design studio





codesign.mit.edu

### #TechWontBuildIt





Googlers Against Transphobia





#NOPRIDEINYT



NO GCP 4 CBP



#### #NoTechForICE

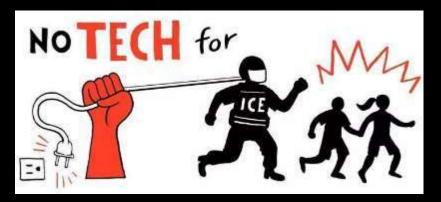














Atlantic Plaza Towers residents protest doorway facial recognition. (Brooklyn Legal Services)

## Somerville City Council could ban government agencies from using facial recognition technology

Posted May 11, 2019



Somerville City Councilor Ben Ewen-Campen proposed a ban on facial recognition technology.



https://blog.tenthamendmentcenter.com/2019/05/san-francisco-committee-passes-ordinance-to-ban-facial-recognition/

https://www.masslive.com/police-fire/2019/05/somerville-city-council-could-ban-government-agencies-fromusing-facial-recognition-technology.html



## The Design Justice Network Principles



We use design to **sustain, heal, and empower** our communities, as well as to seek liberation from exploitative and oppressive systems.



We center the voices of those who are directly impacted by the outcomes of the design process.



We **prioritize design's impact on the community** over the intentions of the designer.



We view **change as emergent from an accountable, accessible, and collaborative process**, rather than as a point at the end of a process.



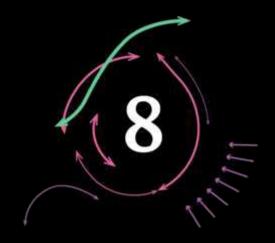
We see the role of the **designer as a facilitator rather than an expert.** 



We believe that **everyone is an expert based on their own lived experience**, and that we all have unique
and brilliant contributions to bring to a
design process.



We **share design knowledge and tools** with our communities.



We work towards **sustainable**, **community-led and** - **controlled** outcomes.



We work towards **non-exploitative solutions** that reconnect us to the earth and to each other



Before seeking new design solutions, we look for what is already working at the community level. We honor and uplift traditional, indigenous, and local knowledge and practices.

### Become a signatory

designjusticenetwork.org/network-principles/

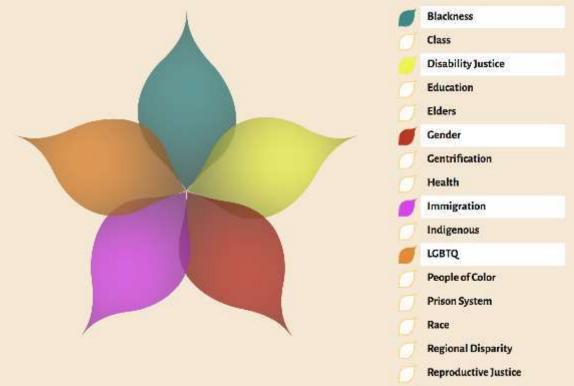


### Kthxbye!

PS: Grab a free Design Justice paper! bit.ly/dj-drs2018-ssrn

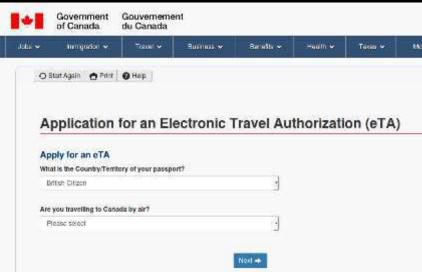
@schock





Kimberlé Crenshaw





Do you have a social media presence?

Select from the list below each social media platform you have used within the last five years. In the space next to the platform's name, enter the username or handle you have used on that platform. Please do not provide your passwords. If you have used more than one platform or more than one username or handle on a single platform, click the 'Add Another' button to list each one separately. If you have not used any of the listed social media platforms in the last five years, select 'None.'

V - SELECT ONE -

DOUBAN

FLICKR

**FACEBOOK** 

GOOGLE+ INSTAGRAM

LINKEDIN MYSPACE PINTEREST

QZONE (QQ) REDDIT

SINA WEIBO

TUMBLE

TWITTER

VINE

YOUKU

YOUTUBE

TENCENT WEIBO

VKONTAKTE (VK)

information, and interact with others. List the username, handle, screen-name, or other identifiers associated with your social media profile. (You do not need to list accounts designed for use by multiple users within a business or other organization.)

Next: Passport >

External links to other Internet sites short

Enter information

online presence, including the types of

applications and

collaborate, share

online

ive

associated with your

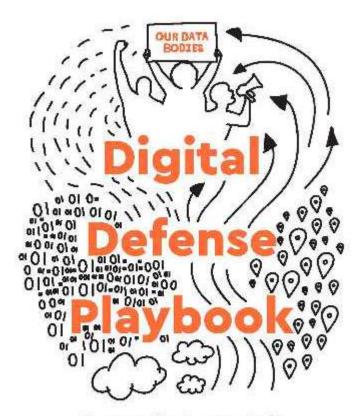
providers/platforms,

websites that you use to

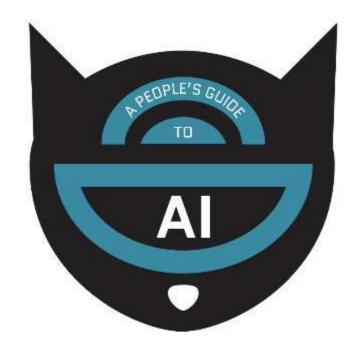
# PLATFORM CO-OPs

We connect cooperatives with the digital economy





Community Power Tools for Reclaiming Data



## ARTIFICIAL INTELLIGENCE

Mimi Onuoha and Mother Cyborg (Diana Nucera)

Introduction: #TravelingWhileTrans, Design Justice, and Escape from the Matrix of Domination 1

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#### #TechWontBuildIt

A new study of more than 1,000 tech workers in the UK (People, Power, and Technology: The Tech Workers' View) found that 59% of those who work on AI have worked on products they felt might harm society, and that more than a quarter (27%) quit their jobs as a result.

https://doteveryone.org.uk/project/industry-attitudes-to-responsible-technology





