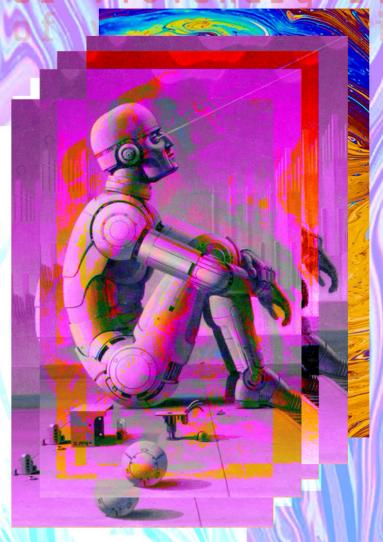
ALGORITHMS OF LATE-CAPITALISM presents

[D/R]ECONSTRUCTING AI

dreams of visionary fiction dreams of visionary fiction dreams of visionary fiction dreams of visionary fiction



ARS ELECTRONICA WORKSHOP SEPT 2020

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BY SA

[d/r]econstructing Al: dreams of visionary fiction

This zine is the result of a series of steps, instructions, and processes set out during an online workshop presented at the Ars Electronica festival 2020. It is, in a sense, the output of an algorithm. Yet, as in the cases of the algorithmic decision-making systems interrogated throughout this zine, the input processed as part of the workshop consisted of the thoughts, beliefs, perspectives, expertise, and experiences of the workshop participants themselves.

An interrogation of the nontechnological structures behind algorithmic decision-making systems that are so readily presented as neutrally non-human can be a powerful tool for imagining alternative futures and presents. The designs of these systems are normative rather than neutral and can consequently reproduce and reinforce structural discrimination in our society. Can we imagine radical design alternatives to create a more just and equitable digitally mediated world?



当ARS ELECTRONICA

This special edition of Algorithms of Late-Capitalism was created by Nushin Isabelle Yazdani and internet teapot (Karla Zavala and Adriaan Odendaal) and the participants of the workshop:

[d/r]econstructing AI – dreams of visionary fiction and zine-making

How to Become a High-Tech-Anti-Discrimination Activist Collective

Kepler's Garden - Ars Electronica, September 2020



Initial Questions on Al & descrimination

and further questions



"technologies embody social relations (power). Through a design justice lens, we might say [that...] most of the time designers unintentionally reproduce the matrix of domination (white supremacist heteropatriarchy, capitalism, and settler colonialism)." Sasha Costanza-Chock

Three cases of Machine Learning

Unemployment
Recruiting
Jurisdictional Risk Assessment

Image: https://twitter.com/schock

Case [1]

AMS Service Austria ("Classification of unemployed people")

The Public Employment Service Austria has been planning to employ an algorithmic decision-making system from this year on (it's been delayed due to COVID).



The system is supposed to classify unemployed people into three groups: high, medium and low, according to their chances of being reintegrated into the labour market.

The group classified as "high" does not need much support, the middle group has good chances and receives a lot of support, e.g. further training. The third group is considered to be difficult to reintegrate and does not receive as much support. This group has a low score.

What reduces the score: being a woman, being over 50, not having an EU passport, compulsory childcare, few days of employment.

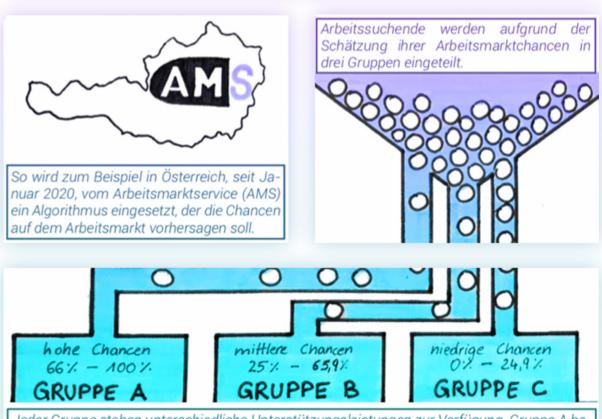
See more details here: https://paolalopez.eu



An excerpt from the AMS algorithm's documentation. (Src: Lopez, Paola - Reinforcing Intersectional Inequality via the AMS Algorithm in Austria / Holl, et. al., 2018, p. 11



In vielen europäischen Ländern wurden in den letzten Jahren immer mehr Algorithmen eingesetzt, um Erwerbslosigkeit zu organisieren. Diese Algorithmen übernehmen unterschiedliche Aufgaben: Zum Beispiel analysieren sie das Online-Verhalten bei der Arbeitssuche, ordnen Stellenangebote, Interviews und Schulungen zu, sollen Arbeitssuchende mit Firmen die Arbeiter*innen suchen passend zusammenbringen. Mitunter entscheiden Algorithmen sogar über Arbeitslosenhilfe und Unterstützungsleistungen.



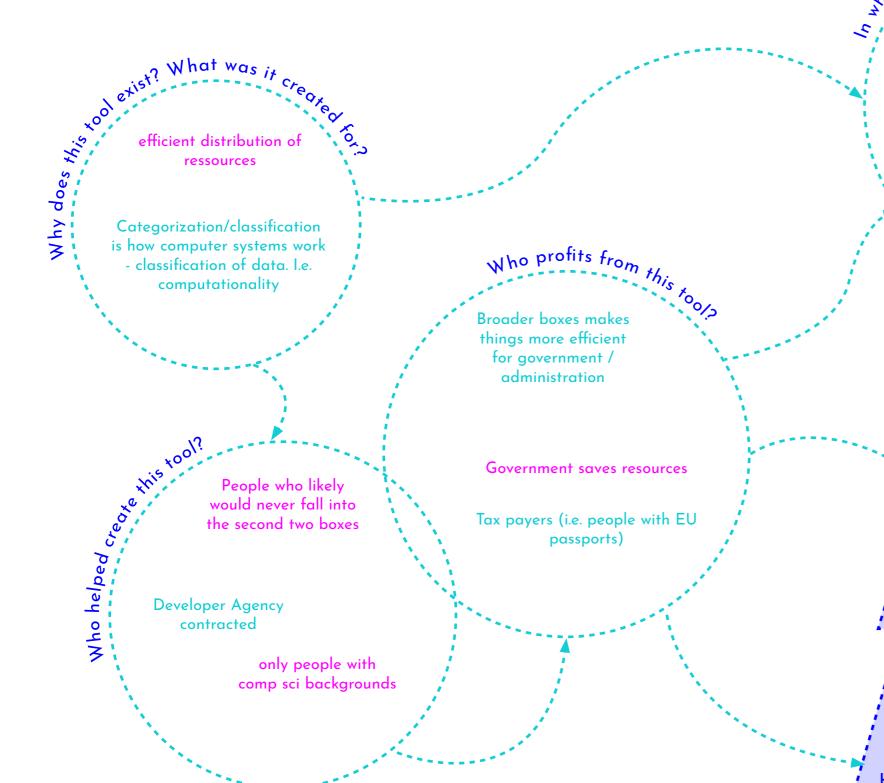
Jeder Gruppe stehen unterschiedliche Unterstützungsleistungen zur Verfügung. Gruppe A bekommt weniger Unterstützung, weil davon ausgegangen wird, dass sie leicht eine Arbeit finden. Der Hauptfokus des AMS liegt auf der Gruppe B, die die meisten Unterstützungsleistungen vom AMS bekommt. Gruppe C wird aus den AMS internen Ressourcen ausgeschlossen. Diese Personen bekommen, dann wesentlich weniger Unterstützung, zumindest keine vom AMS, sondern werden an eine andere Institution ausgelagert.

Excerpt from the AMS comic by Anna Kraher, created during the "Data Justice" class by Nushin Yazdani and Jasmin Grimm at Humboldt University, 2020.

/* [D/R]econstructing AI */

Case[1]

AMS Service Austria ("Classification of unemployed people")



This method is inspired by the Design Justice Network, the Stop LAPD Spying Coalition and Free

Acceleration of inequality ("reproduction and reinforcement of inequality")

quick fix solutionism

people who need the most help don't get it: In the long run it doesn't solve the problem they are trying to solve, as they would just create more poverty and people who need state support

constrained already

Who is harm

people with children, lots of household tasks might not be able to attend all meetings (teilnahme)

people not fitting the efficient normative system

How does racism, sexism, classism, ableism, homomisia, transmisia... ON THE INSTITUTIONAL LEVEL play a part in

enough) - people with disabilities might need more support at the workplace (because workplaces often aren't built

How does racism, sexism, classism, ableism, homophobia, transphobia... ON THE SOCIETAL LEVEL play a part in this?

/* [D/R]econstructing AI */

Radicals, by Patricia Hill Collins and Kimberlé Crenshaw

Case[2]

Predicting a worker's mindset with one click on their LinkedIn

The Berlin start up bunch.ai promised to assess people based on their LinkedIn profile - with only 1 click.

"Meet Emma, an A.I. that's able to predict a person's mindset, motivations, and working style based on 100 indicators in their public

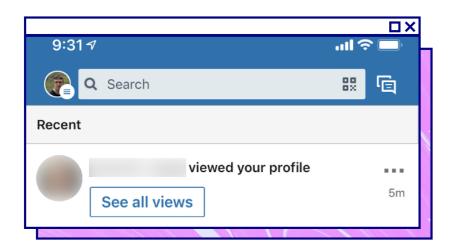


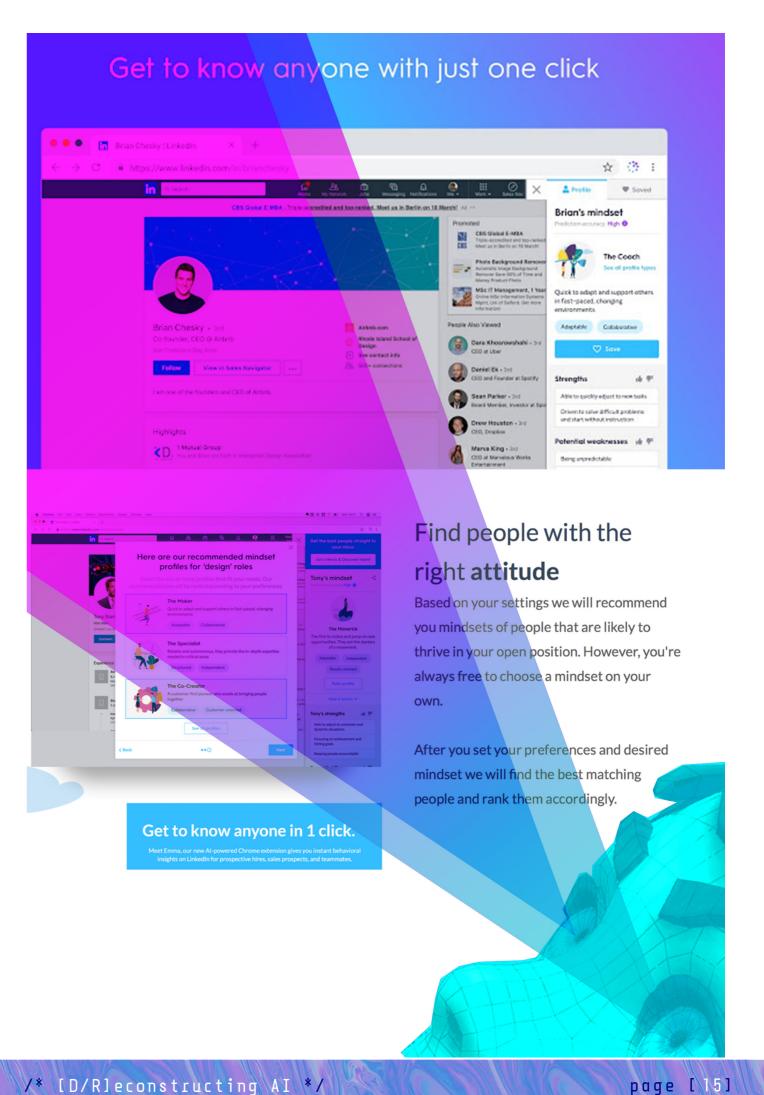
profile. Emma combines information like past employers and roles with more subtle indicators like the language candidates use to describe their work, the posts they share publicly, and the way colleagues talk about them.

The result? A more holistic picture of a person's priorities - and potential fit for the role - with 1 click."

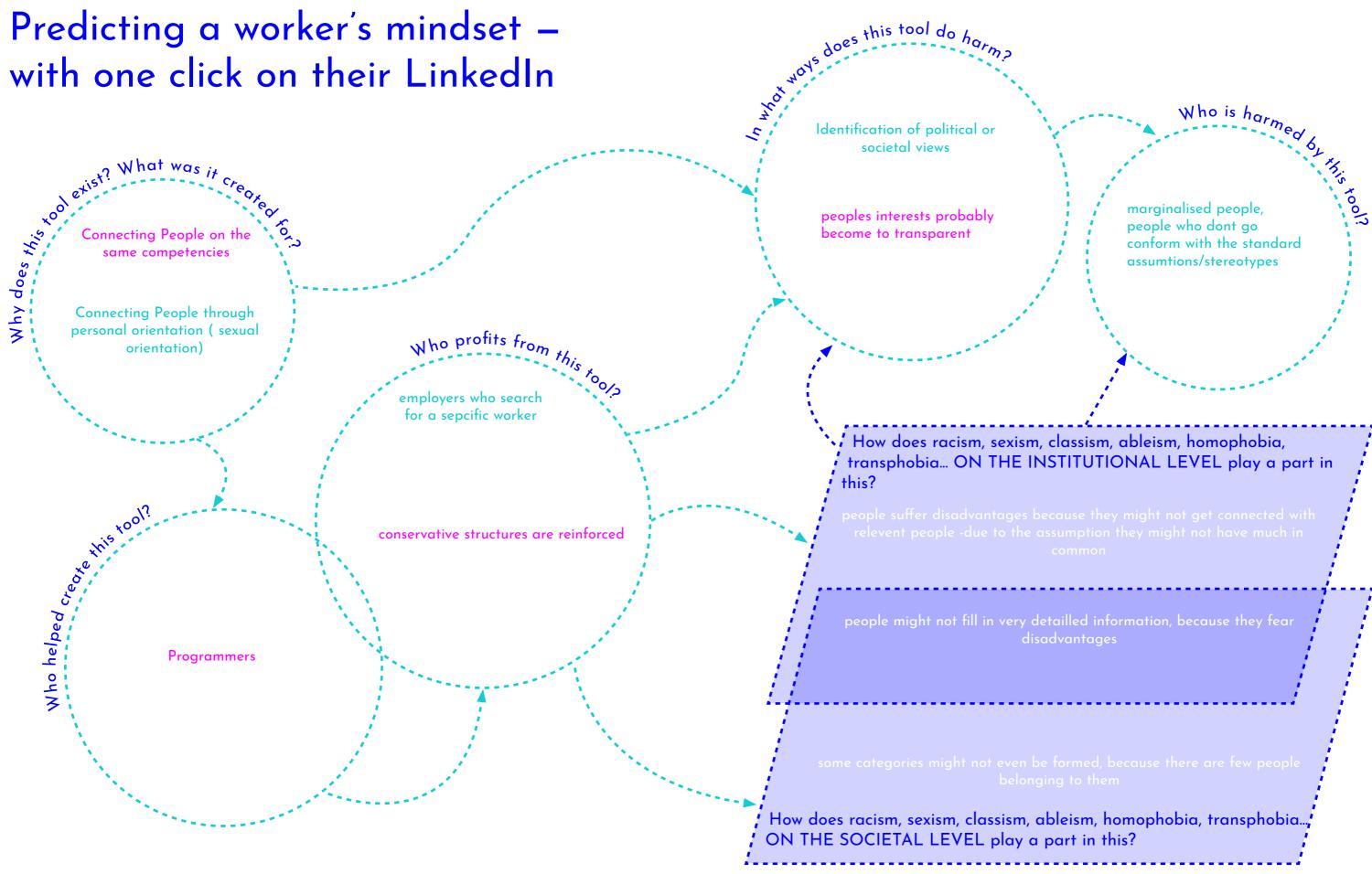
Status Quo: LinkedIn asked Bunch. ai to make several changes to their software, and Bunch.ai had to abandon their service - for good? Who knows.

See more details here: https:// bunch.ai/blog/meet-emma-ai/





Case[2]



Case[3]

Jurisdictional risk assessment -Likely to re-offend?

The jurisdiction in many of the US states relies on algorithms to support decisions during every stage of the criminal justice system. These risk assessment tools are used to predict a defendant's likelihood to reoffend. The resulting score from low to high risk effects decisions regarding probations, bond amounts and even the length of jail time in criminal sentencing.

In 2016, the US nonprofit newsroom ProPublica assessed one of the most widely used commercial risk assessment tools, called COMPAS (developed by the forprofit company Northpointe, now Equivant).

ProPublica found that Black defendants were more likely to be misclassified as higher risk while white defendants were more often misclassified as low risk. Black folks were

inaccurately identified as future criminals at almost twice the rate as white defendants.

When comparing the "Risk of Violent Recidivism" scores to the actual recidivism rates of defendants, they found the prognoses to be "remarkably unreliable" only 20% of the people predicted to commit violent crimes actually did.

How does COMPAS work? An important part of it is a questionnaire consisting of 137 questions that are either answered by the defendant or drawn from their criminal record. The questions are not only directly related to risk but also comprise the topics "criminal personality," "social isolation," "substance abuse" and "residence/stability," where defendants are each ranked low, medium or high risk.

"These histograms show that scores for white defendants were skewed toward lower-risk categories, while black defendants were evenly distributed across scores." (Src: ProPublica)

"Race" is not one of the categories. Instead, questions such as "Was one of your parents ever sent to jail or prison?", "How many of your friends/acquaintances are taking drugs illegally?", "How often do you have contact with your family?", "How often have you moved in the last twelve months?", "Do you have an alias (do you sometimes call yourself by another name)?", "How many times did you skip classes while in school?", "How often did you get in fights while at school?" and "How hard is it for you to find a job above minimum wage compared to others?" are asked.

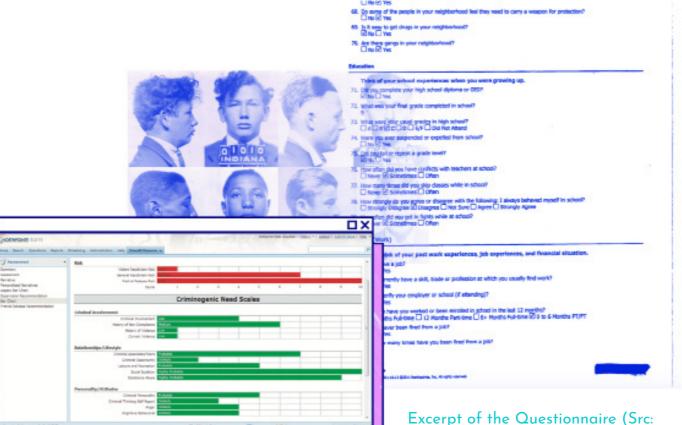
An interesting factor is the change of use: COMPAS was originally developed to provide judges with an understanding of

the defendant's rehabilitation needs. For instance, it should help them decide on how much mental health counseling they have to offer if the defendant is put on probation or if it is likely that they are "unsuitable" for treatment.

Question to think about: How likely is it for the judge to decide against the recommendation of the tool?

See more details here: https://www. propublica.org/article/machine-bias-riskassessments-in-criminal-sentencing

https://www.propublica.org/article/how-weanalyzed-the-compas-recidivism-algorithm

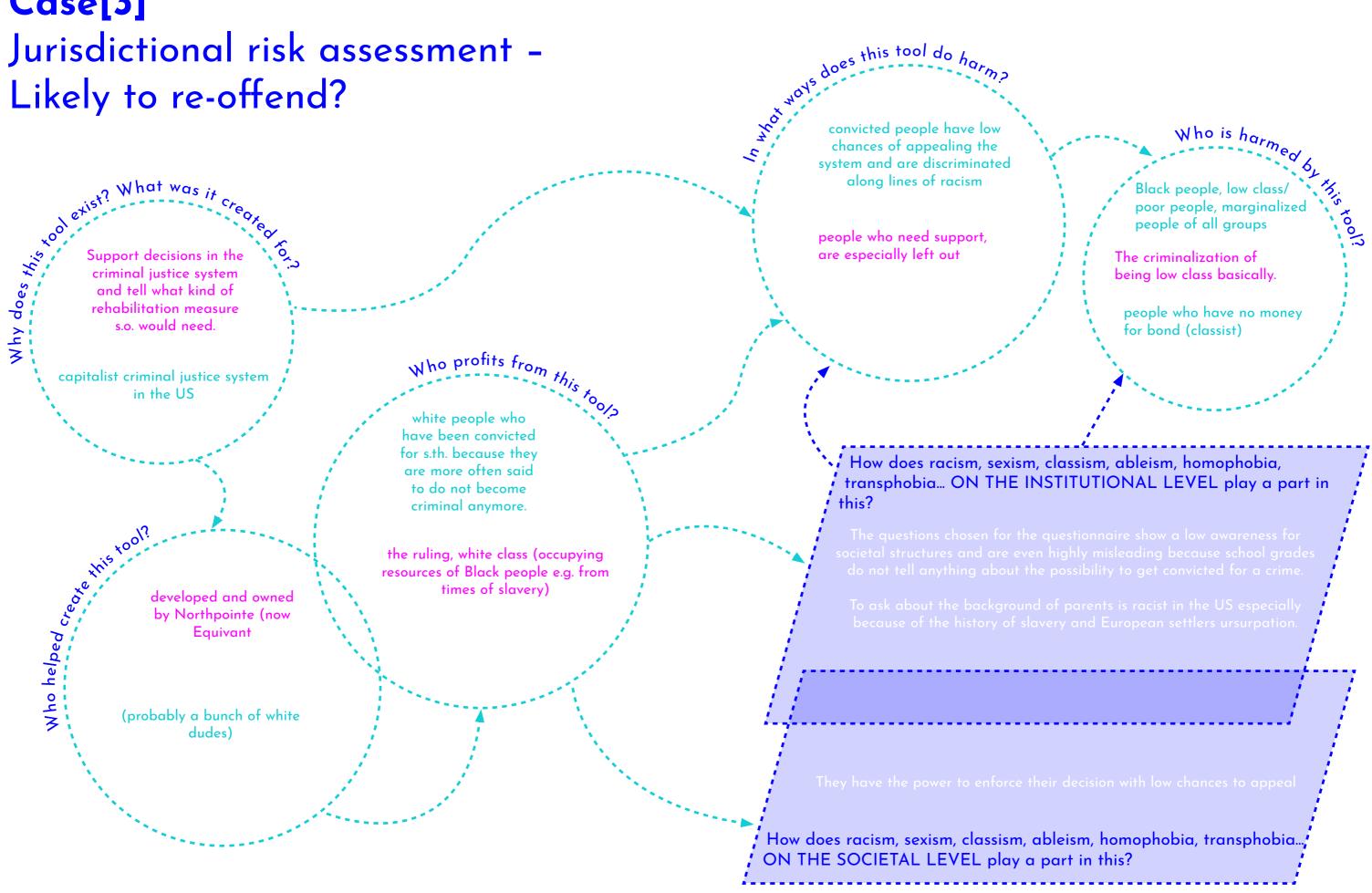


Northpointe Suite's COMPAS Assessment Bar Chart

/* [D/R]econstructing AI */

https://assets.documentcloud.org/ documents/2702103/SampleRisk-AssessmentCOMPASCORE.pdf)

Case[3]



/* [D/R]econstructing AI */

"We have the gift and the responsibility to imagine. And yes, this is a dark age. And a darkness such as this is the perfect setting for our dreams. Visionary fiction is a way to shape dreams of justice - to understand that art is not neutral, that what we dream and create is a practice ground for the futures we need"

adrienne maree brown

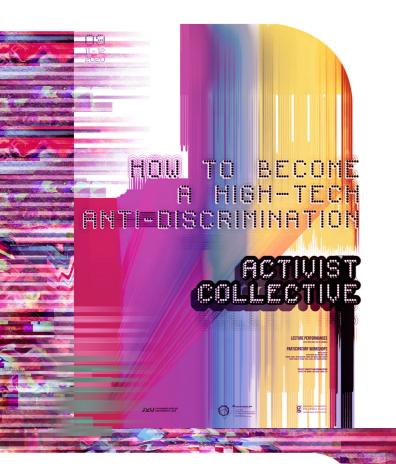


Dreams of Visionary Fiction

Redefine Remix Reimagine

Who Inspires Us?

Who are the artists, academics, critics, thinkers, thinkers, technologists who we need to look to in order to understand our technological presents and change our technological futures?



Chela Sandoval wrote a book "Methodology of the oppressed" where she explains how we all can learn from theories and strategies developed by academics and activists what she calls "US third world feminism". The point is that we can use technologies and deconstruct them and resignify them and do meta-ideologizing by redefining their use along an orientation that she calls democratics. At one point she quotes María Lugones who said that love is a requisite for anti-rcist feminism. Also Audre Lorde says that mutual love is a potential to overcome hierarchies.

Now there is the musician Björk who has made a great song "all is full of love" with a very great video showing two robots in really erotic loving interactions. For one time these robots are not fighting machines or machines for profit maximation but for inspiring loving interaction on a quite non hierarchical plane. Computer science classes and video games might inspire more for such loving interaction, if social meanings and ethical values are discussed.





MUTALE NKONDE

AI FOR THE PEOPLE

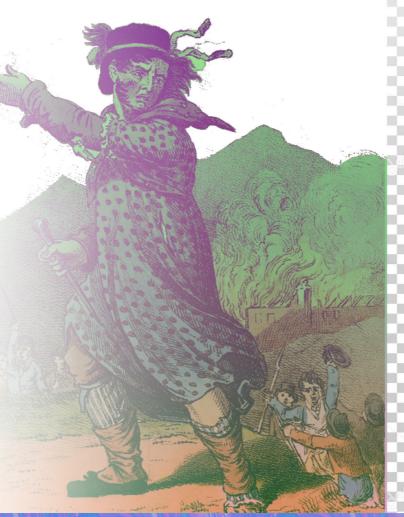
In order to create a truly equitable future, public interest technologists should be critical of the asymmetrical power systems that lead to the weaponization of technological systems against vulnerable communities.

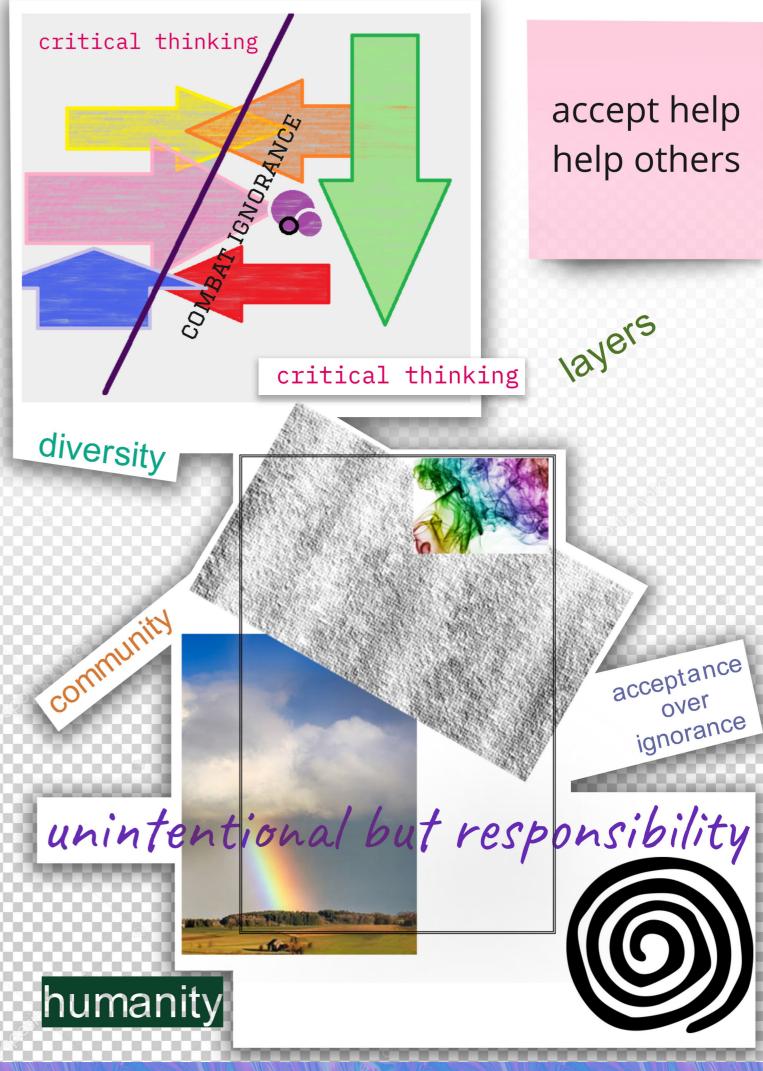
HOW WE RESIST

We aren't powerless subjects of technology as in dystopian science-fiction. We can resist, remake, and reclaim our technological futures.

Sources of Resistance:

Appropriation Artistic intervention Boycotts Civil disobedience Counter-culture Decolonialization **Design Justice** Détournement Feminism Hacktivism Indigenous knowledge **Innovation** Ludditism Public mobilization Revolution Reform Social activism Tactical Media







MANIFIESTO REMIX

*We use design to sustain, heal, and empower our communities, as well as to seek liberation from exploitative and oppressive systems.
(Design Justice Network Principle 1)

Let's actually ask WHY this tool is to be created. Is it efficiency/money? Is that really the best reason to create something that can be so dangerous?

What values are

important to us?

"Liberation of oppressive systems" is something that I haven't found in any corporate or government AI principles list, I wonder why.....

»We recognize that power is distributed unevenly, and People of Color, Black, Indigenous, Womxn, Queer, Gender Non-Conforming, Poor, Disabled, and other communities are pushed to the margins. We commit to resisting these interlocking systems of oppression, including Racism, Coloniality, Casteism, Heteropatriarchy, Capitalism, and Ableism. We commit to striving toward collective liberation.« (Radical AI Principles)

Let's imagine together what that collective liberation looks like, and also look what has already been imagined before us

There has to be the option of actually also creating NO machine learning tool – and this is to be decided by the people you could be harmed most by the tool.

»Before seeking new design solutions, we look for what is already working at the community level. We honor and uplift
"We center the voices of those who are directly impacted by the outcomes of the design process."
(Design Justice Network Principle 2)

traditional, indigenous, and local knowledge and practices.« (Design Justice Network Principle 10)

To have 1 (or more) "user interviews" is not sufficient. Who is deciding? Who is creating? Who is earning?

»Move at the speed of trust
Grow trust and move together with fluidity
at whatever speed is necessary.«
(The BlackSpace Manifesto)

If you want doctors to spend more time with their patients, is that really a question of automation? Or is the real question here if we should have a capitalist healthcare system that needs to generate income?

»We refuse the expansion of forms of data science that normalizes a condition of data extractivism and is defined primarily by the drive to monetize and hyper-individualize the human experience. We commit to centering creative and collective forms of life, living, and worldmaking that exceed the neoliberal logics and resist the market-driven forces to commodify human experience. « (Data Manifest-No)

Page 7 **Elevate emotion and embodiment** (Principles of Data Feminism)

»We work towards non-exploitative solutions that
reconnect us to the earth and to each other.«
 (Design Justice Network Principle 9)

3a

»We refuse a data regime of ultimatums, coercive permissions, pervasive cookie collecting, and blocked access. Not everyone can safely refuse or opt out without consequence or further harm. We commit to "no" being a real option in all online interactions with data-driven products and platforms and to enacting a new type of data regime that knits the "no" into its fabric.«

(Data Manifest-No)

CHECK THESE OUT

The Design Justice Network Principles
The Feminist Data Manifest-No
Blackspace Manifesto
Critical Engineering Manifesto
Archimedean Oath
Programmer's Oath
Never Again
Radical AI Principles
The Xenofeminist Manifesto
Feminist Principles of the Internet
MIT Co-Creation Manifesto
Consentful Tech
Imagining a Universal Declaration of Digital Rights

for minoritized people in ways that are consensual, reciprocal, and that understand data as always co-constituted.«
(Data Manifest-No)

»We refuse work about minoritized people. We commit

to mobilizing data so that we are working with and

"In the near future, all children are educated by robots..."

How can we reinvent our technological futures?

The "view from nowhere" is developed in Donna Haraway's Situated Knowledges

https://radicalai.net/principles

inter

We recognize that no one has a 'view from nowhere'

Conics

PARABOLI

CIRC

Let's design an

system that actively

EMPATHY

HYPERBOL

destroys biases

VER AND PRIVILEGE

20.9.2020

POWER AND PRIVILEGE WIENWOCHE

11.-20.9.2020

WIENWO

wehren uns dagegen, beobachtet, aufgenommen oder erforscht zu werden. Wir sind nicht eure Forschungsobjekte. Wir waren da, wir sind da und wir werden immer da sein. Es gibt nichts zu entdecken, nur zu lernen.

WATCH YOUR SILENCING GAZE! http://www.wienwoche.org/de/10 78/silencing_gaze



EMOTIO

HEALTH



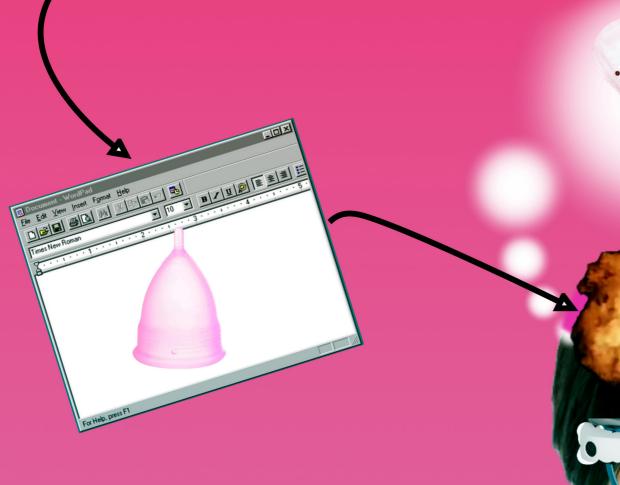








ASK YOUR BIG BROTHER WHAT YOU NEED



"With a neural implant, anyone can wirelessly access the internet with their thoughts."





Visiomary Fuhre

Sentences

"We have developed technology to digitally back-up our brains"

"Moods are controlled by brain stimulators embedded at birth"

"A corporation gets elected as president for the first time in history"

"Machines have attained equal legal status with humans"

"Most business transactions or information inquiries now involve dealing with a simulated person"

"High-resolution audio-visual cybersex has become the new sexual norm"

"All civil servants have been replaced by more efficient algorithms"

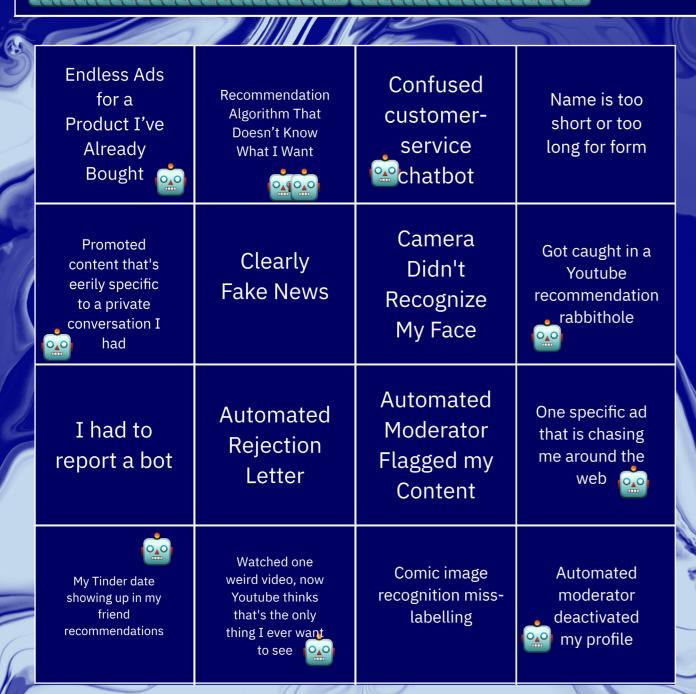


How can we reinvent our technological futures?

- 1. Use one of the sentences on the previous page as your framing future scenario. What are the possible implications of this future?
- 2. Pick two of the values to help you create a re-imagined technological future.
- 3. Create a collage on this page to convey your new future vision.

BINGO! Awkward Algorithm

Drag a TOKEN to each 'awkward algorithm' vou've encountered this week:



Credits

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