

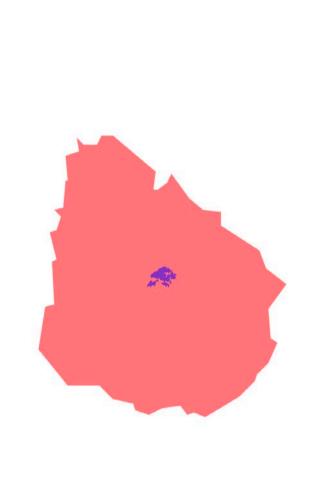
Dr. Tomás Laurenzo

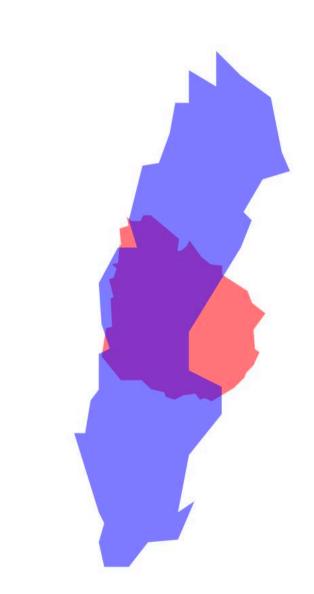
http://laurenzo.net tomas@laurenzo.net @krahd Associate Professor Dept. of Critical Media Practices University of Colorado at Boulder

Visiting Associate Professor Computer Science Institute Universidad de la República



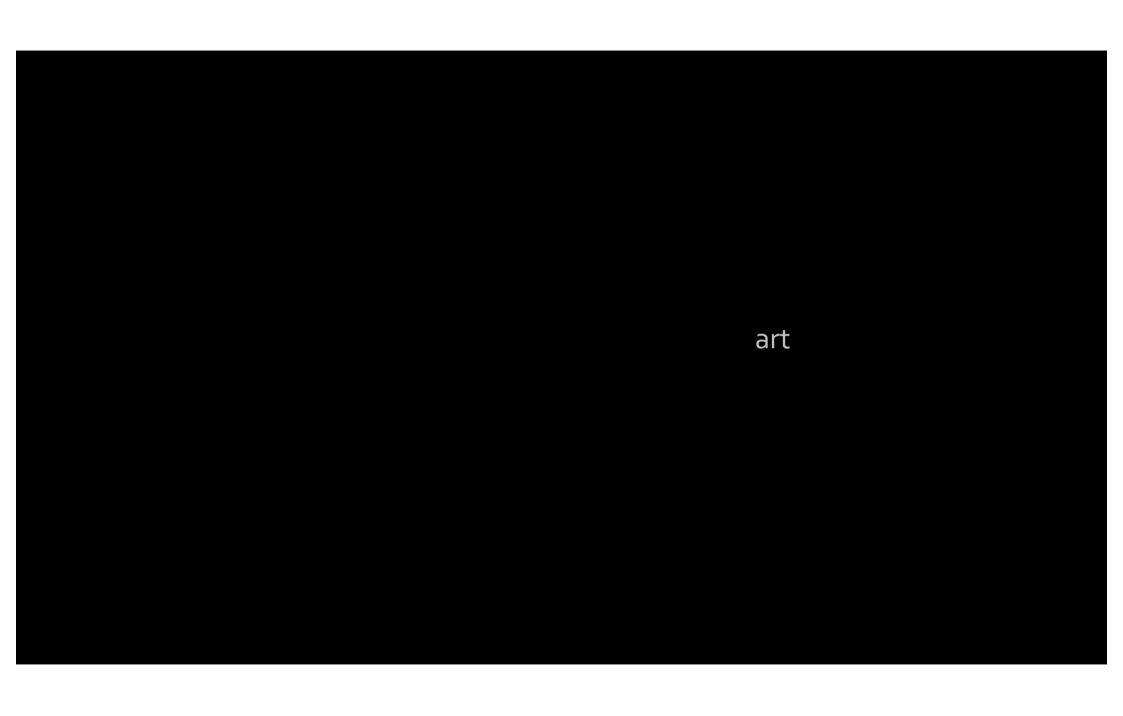


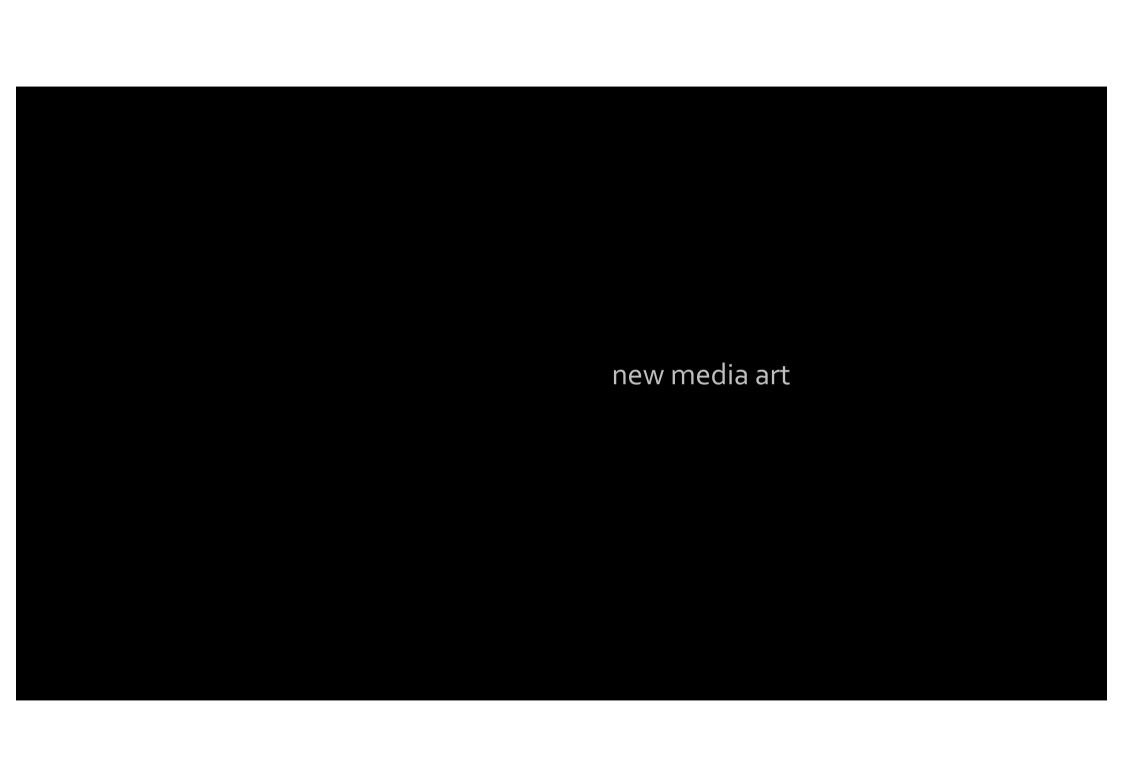








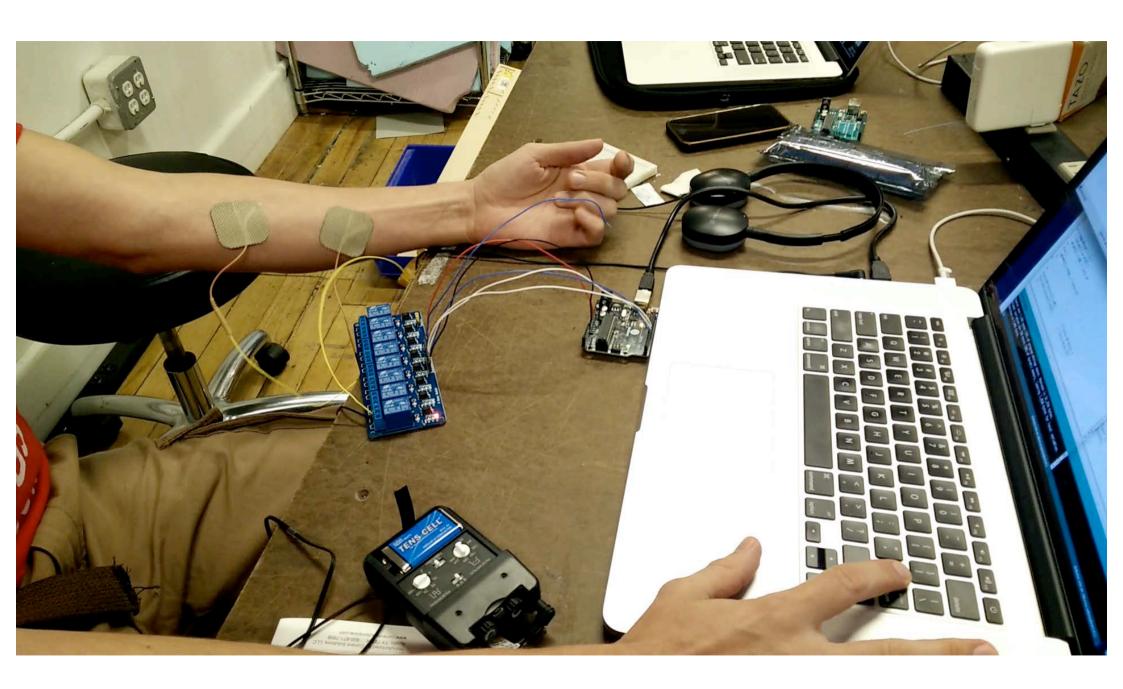




new media art art that becomes possible when artists appropriate the knowledge behind technology new media art art that becomes possible when artists appropriate the knowledge behind technology

appropriation of the processes of creation of new knowledge



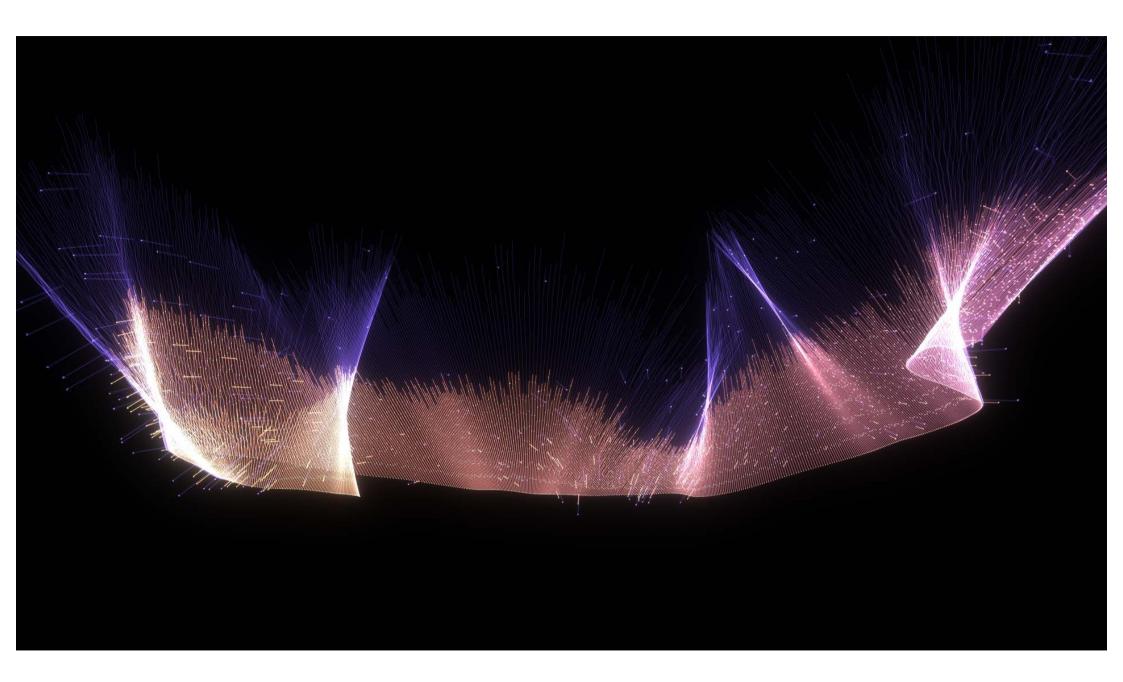


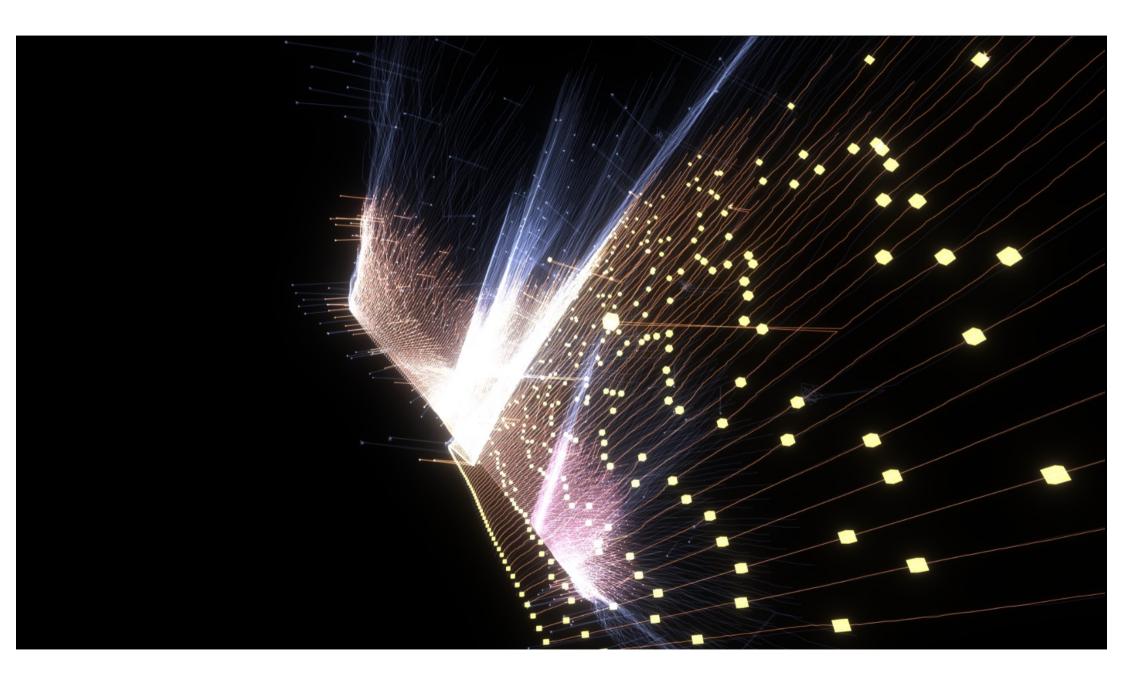














The New York Times

Wielding Rocks and Knives, Arizonans Attack Self-Driving Cars



A Waymo autonomous vehicle in Chandler, Ariz., where the driverless cars have been attacked by residents on several occasions. Caitlin O'Hara for The New York Times

By Simon Romero

Dec. 31, 2018







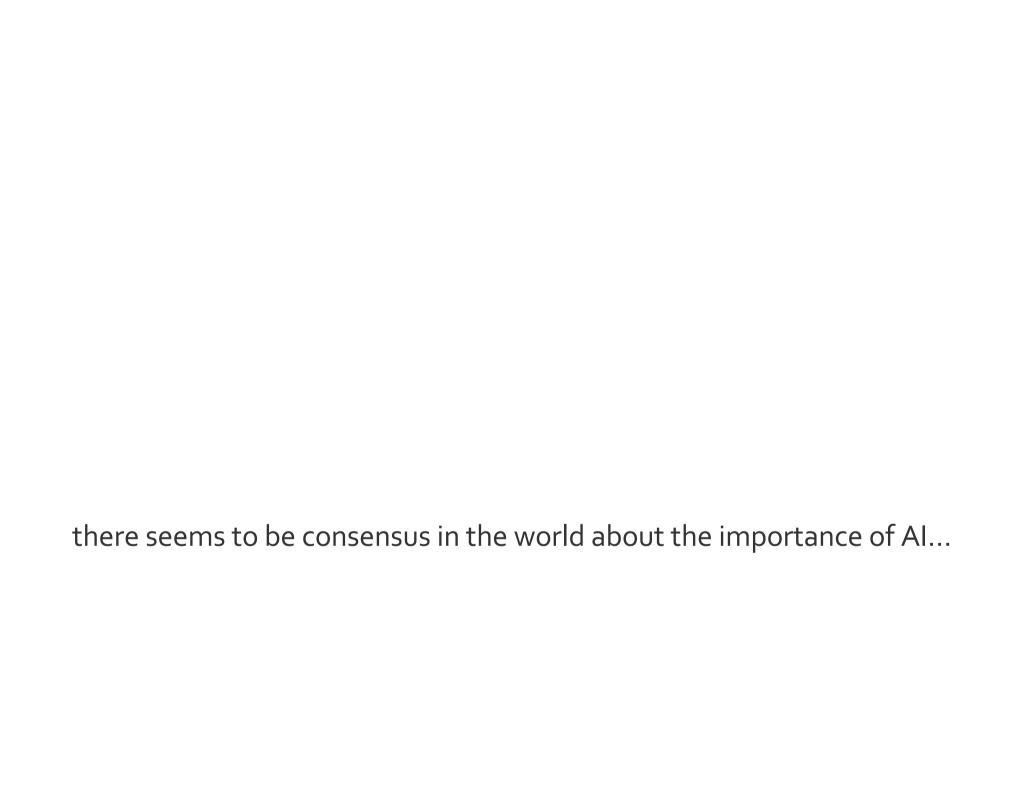




- i) hype
- ii) tech
- iii) impact
- iv) critical design

Hype

reality is political, not technological Al is the new electricity



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Against Nation-State Cyberthreats



Cybersecurity Threats Are



Board's Role When It Comes to Cybersecurity



Really Worry About the Banks' Cybersecurity



Learne Breach



BUSINESS | JOURNAL REPORTS: LEADERSHIP

How Artificial Intelligence Will Change Everything

Baidu's Andrew Ng and Singularity's Neil Jacobstein say this time, the hype about artificial intelligence is real











From The Experts

Companies Hate to Sell Business Units. That's a Big Mistake. -





My Company's Single Most Crucial Hire -



Bosses Say They Want Employee Input. Then They Ignore It.

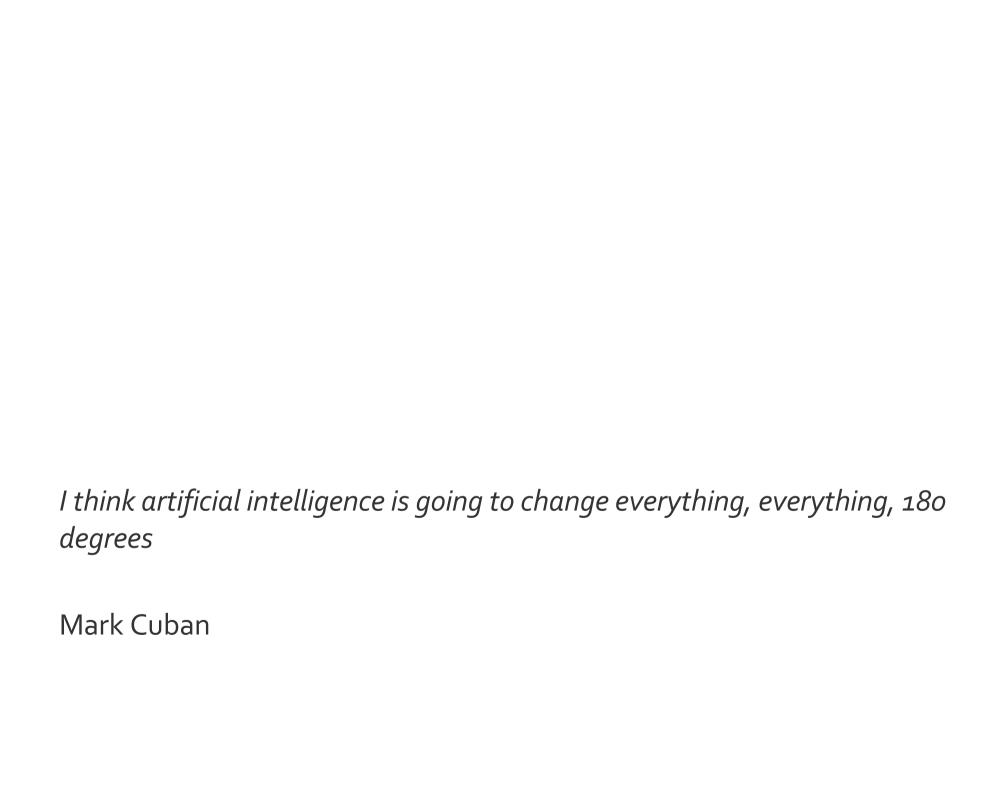


A Simple Way to Retain the Best Employees



Get Ready for Food as a Management Tool

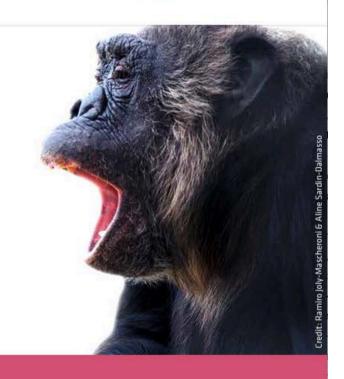








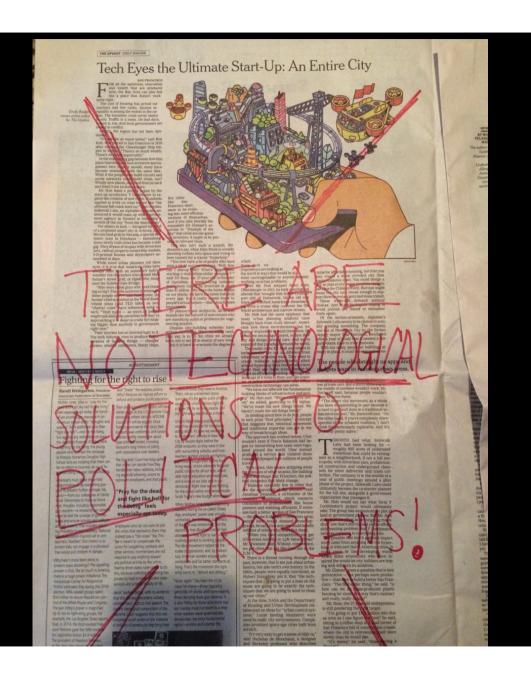




ARS ELECTRONICA

Festival for Art, Technology and Society **POSTCITY Linz, September 7-11, 2017**

reality is political, not technological Al is the new electricity











Greta Thunberg @GretaThunberg · 4m

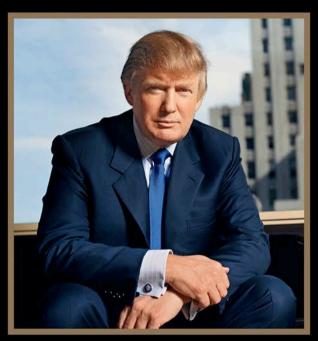
The climate- and ecological crisis can no longer be solved within today's political and economic systems. That's not an opinion. It's just simple maths.

#ClimateEmergency

Al brings technology t political campaigns...

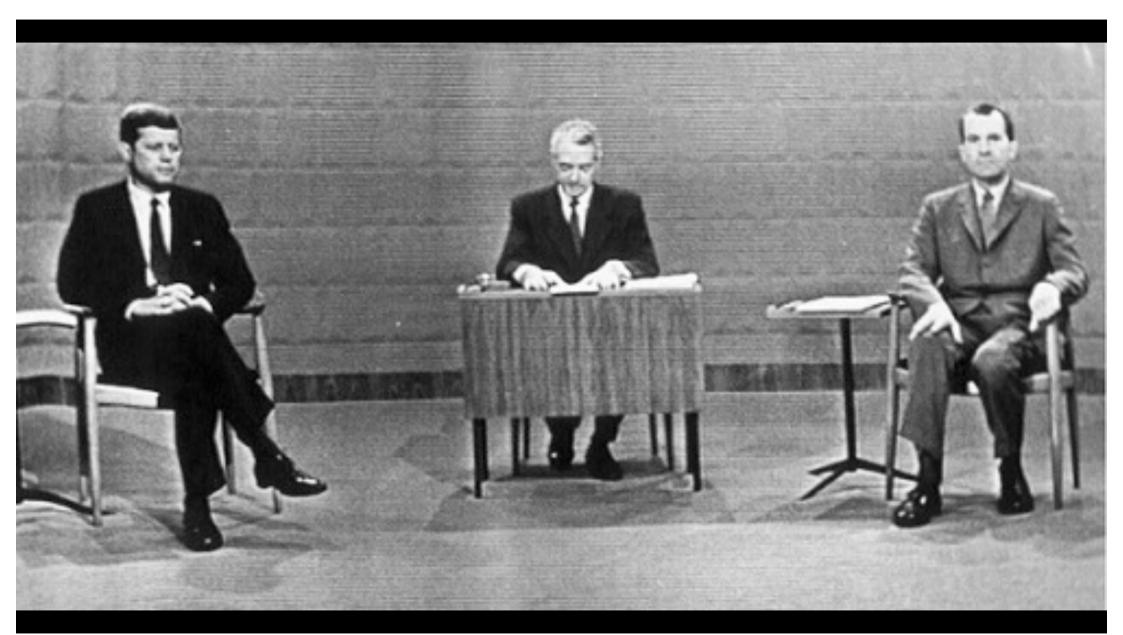
#1 NATIONAL BESTSELLER

TRUMP THE ART OF THE DEAL



"Trump makes one believe for a moment in the American dream again." —The New York Times

DONALD I. TRUMP with TONY SCHWARTZ



SARAH LAI STIRLAND SECURITY 11.04.08 08:25 PM

PROPELLED BY INTERNET, BARACK OBAMA WINS PRESIDENCY



Barack Obama was elected the 44th president of the United States

Tuesday night, crowning an improbable two-year climb that owes much of its success to his command of the internet as a fundraising and organizing tool. Both Obama and Republican rival John McCain relied on the net to bolster their campaigns. But Obama's online success dwarfed his opponent's, and proved key to his winning the presidency. Volunteers used Obama's website to organize a thousand phone-banking events in the last week of the race – and 150,000 other campaign-related events over the course of the campaign.

Supporters created more than 35,000 groups clumped by affinities like geographical proximity and shared pop-cultural interests. By the end of the campaign, myBarackObama.com chalked up some 1.5 million accounts. And Obama raised a record-breaking \$600 million in contributions from more than three million people, many of whom donated through the web.

"He's run a campaign where he's used very modern tools, spoke to a new coalition, talked about new issues, and along the way, he's reinvented the way campaigns are run," says Simon Rosenberg, president and founder of the nonprofit think-tank NDN, and a veteran of Bill Clinton's first presidential campaign. "Compared to our 1992 campaign, this is like a multi-national corporation versus a non-profit."

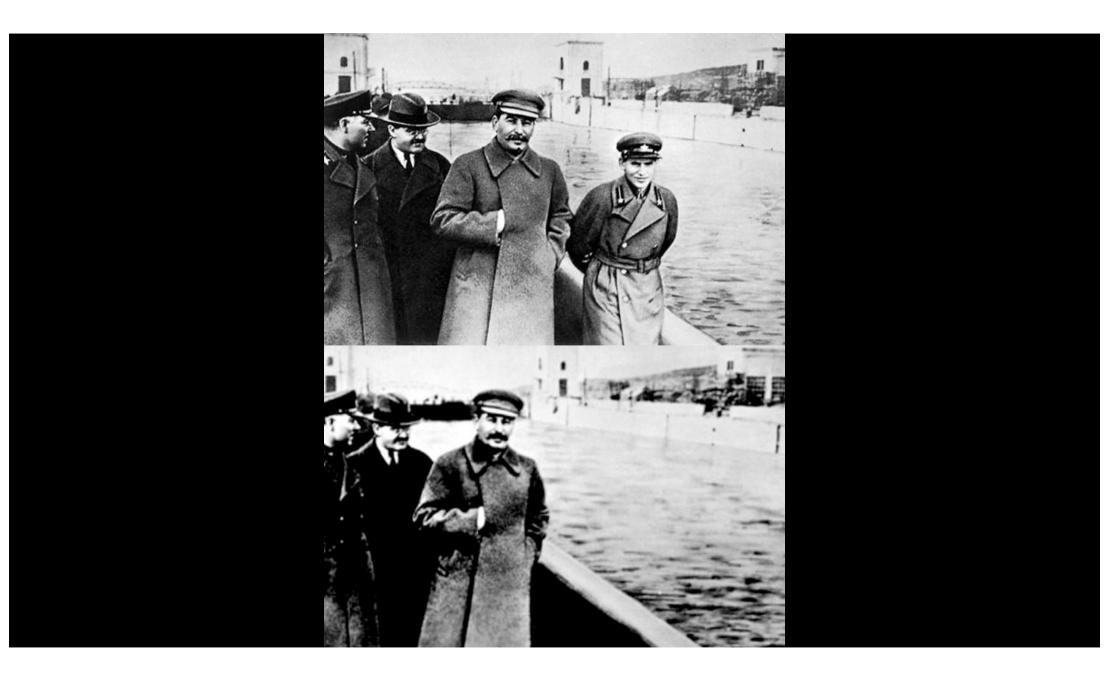
...but AI creates believable "fake news"



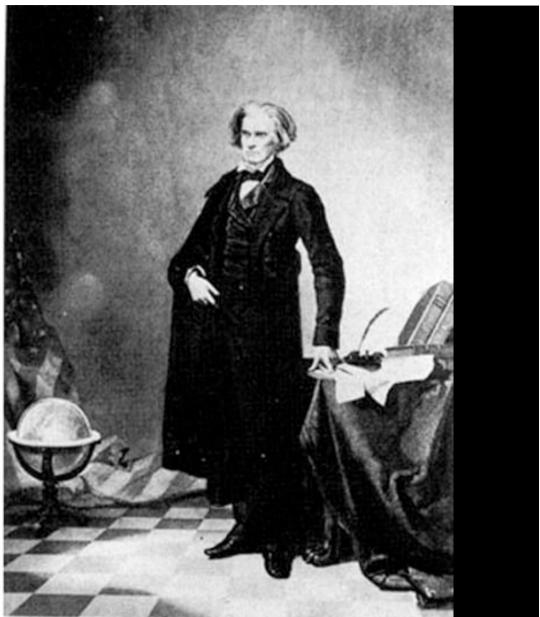
Back in the mid-1700s, during the height of the Jacobite rebellion in Great Britain, seditious printers printed fake news, even going so far as to report that King George II was ill, in an attempt to destabilize the establishment. Such fake news was picked up by more reputable printers and republished, making it difficult to tell fact from fiction.

http://www.thesocialhistorian.com/fake-news/











Composite photos -







COULD HAPPEN ONLY IN AMERICA! Fantastic Details Of Mass Hysteria

New YORK, October 31.—All day to-day reports came to hand adding more fantastic details to the already seemingly over-fantastic story of individuals' reaction to a radio story of the invasion of the earth by Martians.

...but AI is the (technological) future



Samsung sued by rights groups over alleged use of child labour in its Chinese factories

French campaigners alleged that children had been found in Chinese plants producing Samsung products and other staff faced severe health problems

PUBLISHED: Thursday, 11 January, 2018, 5:01pm UPDATED: Thursday, 11 January, 2018, 8:12pm



...but AI is New Media

"It would not have been possible for us to take power or to use it in the ways we have without the radio. ... It is no exaggeration to say that the German revolution, at least in the form it took, would have been impossible without the airplane and the radio. ... [Radio] reached the entire nation, regardless of class, standing, or religion.

Joseph Goebbels

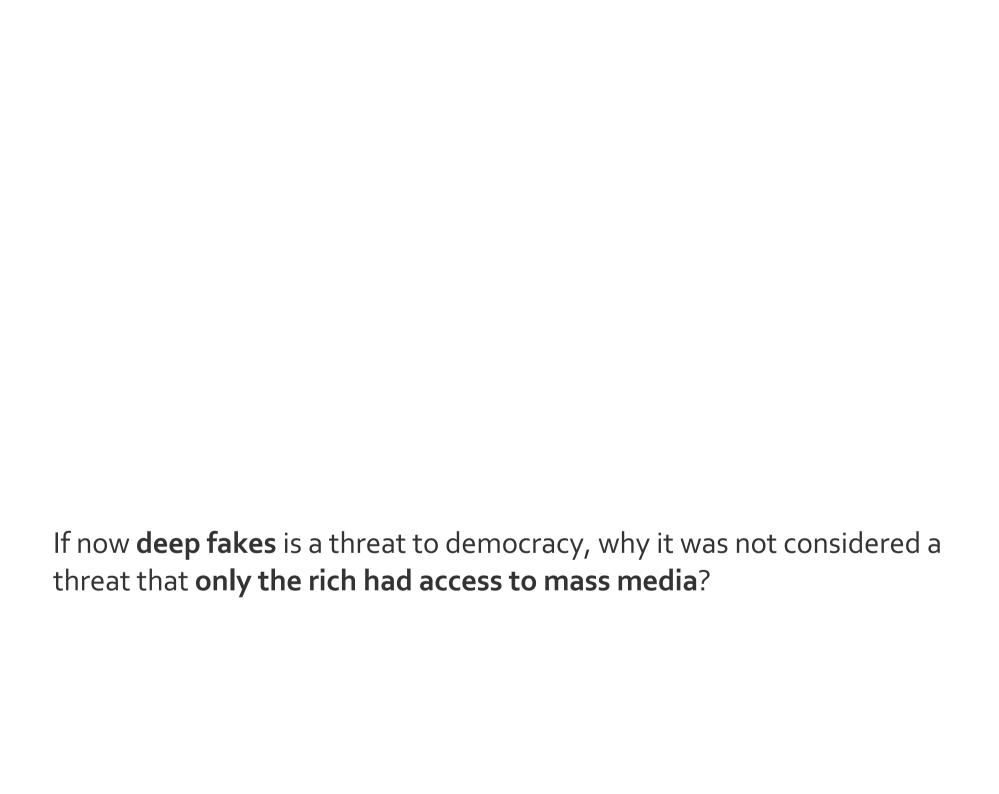






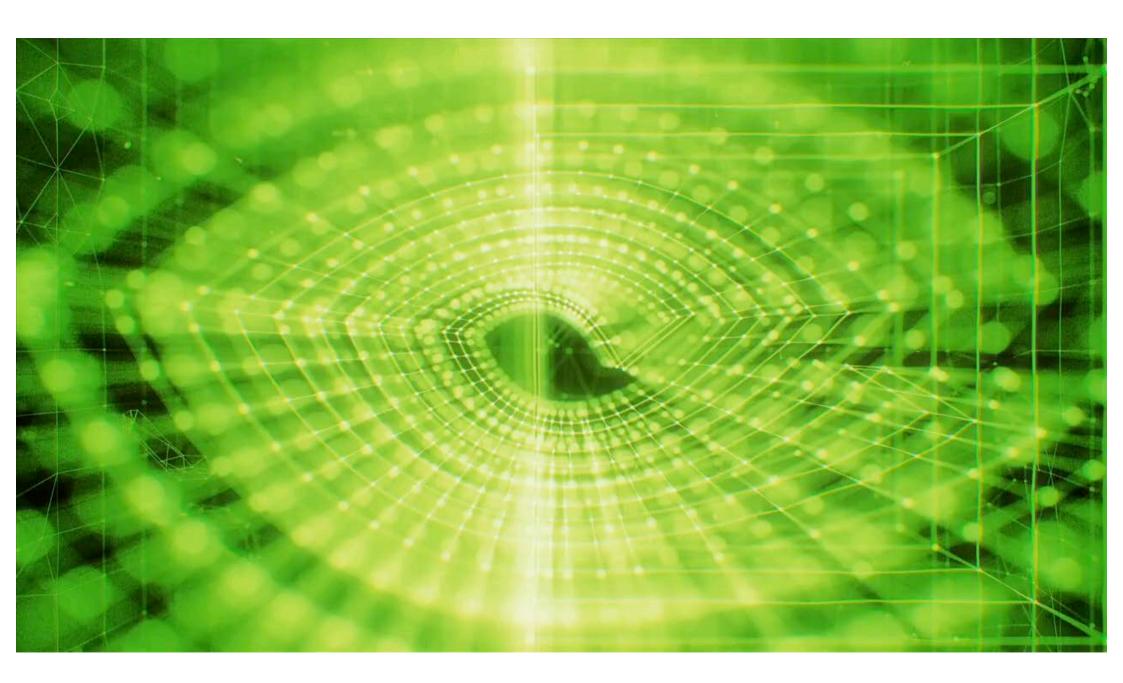




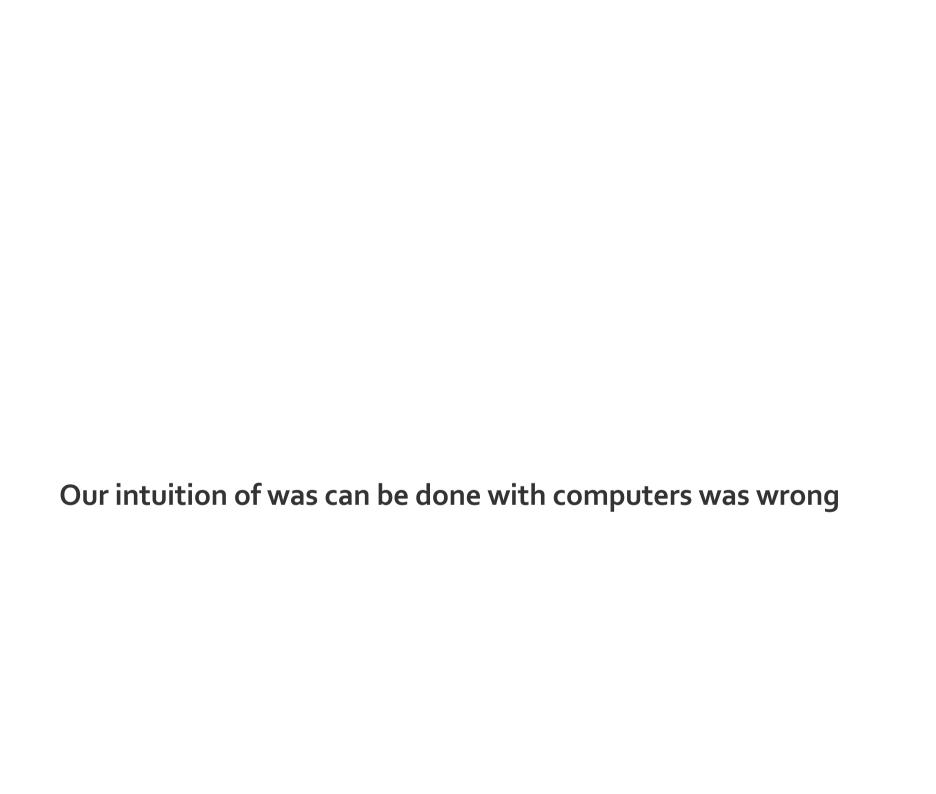


The Tech

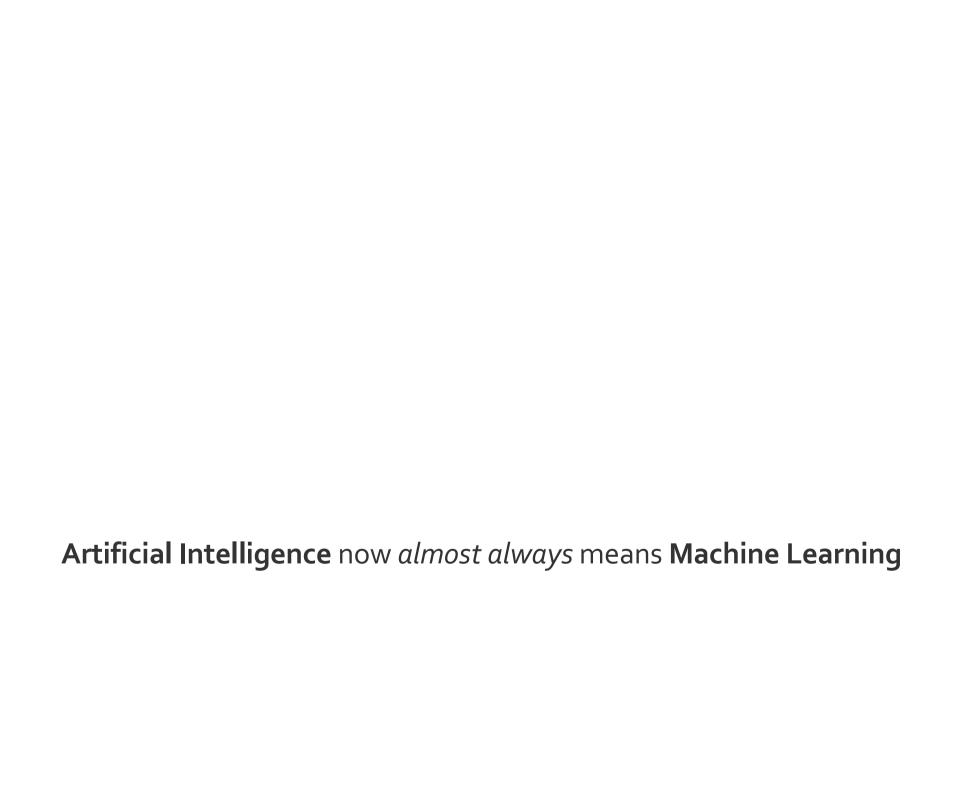




New Electricity



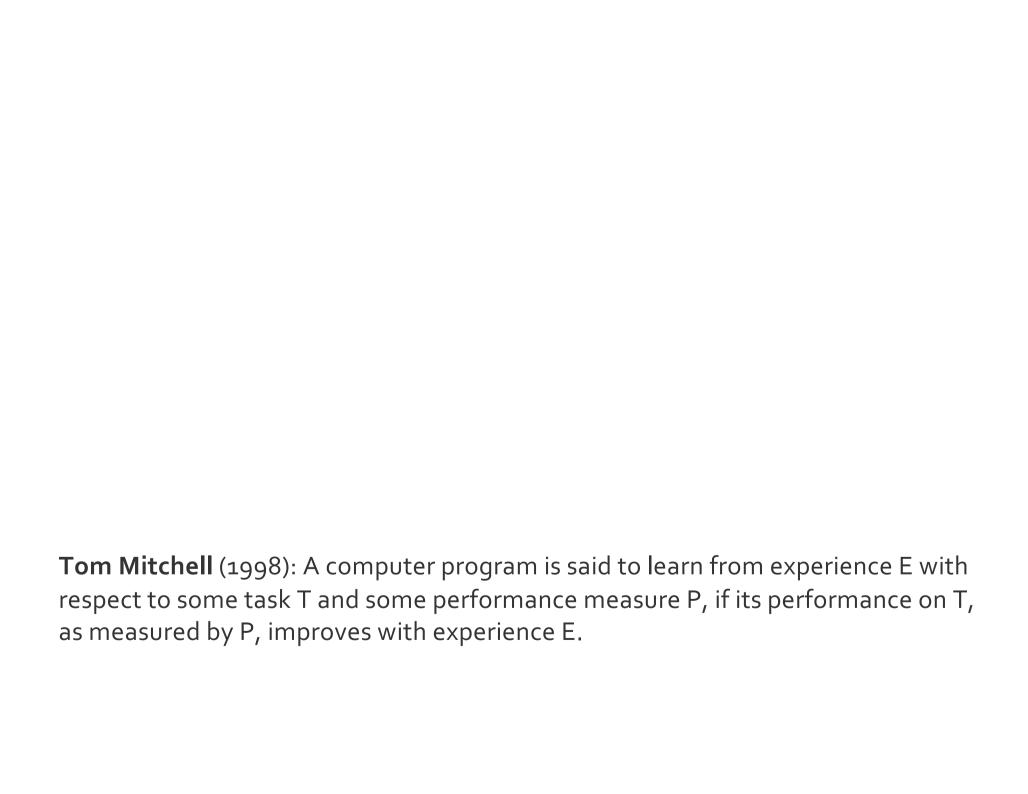
Implicit modelling



Concept Learning	1967
Decision Trees	1984
Artificial Neural Networks	1958
Genetic Algorithms	1960
Reinforcement Learning	1977
Inductive Programming	1970

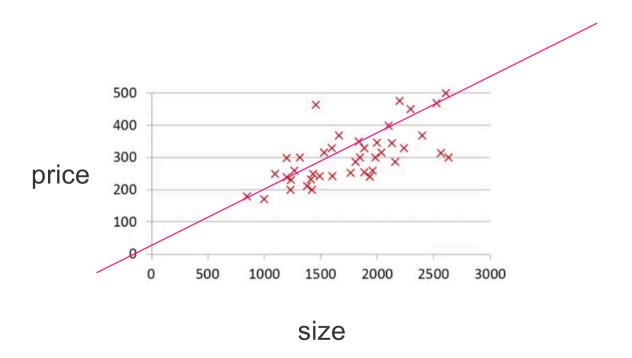
Machine Learning coined by Arthur Samuel in 1959 at IBM

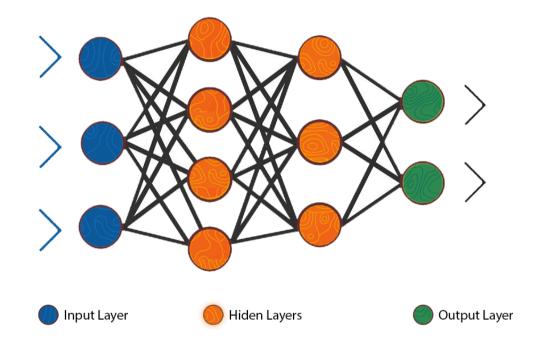
machine learning explores the study and construction of algorithms that can **learn** from and make predictions on data – such algorithms overcome following strictly static program instructions by making **data-driven predictions or decisions**, **through building a model from sample inputs**

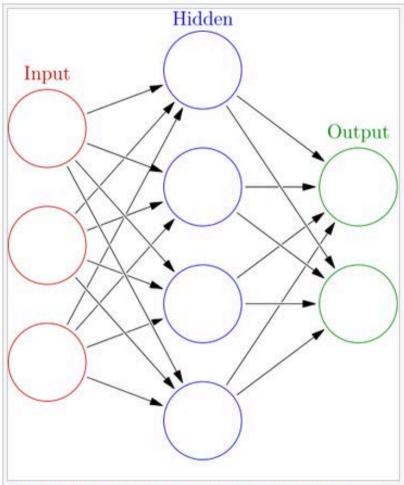


There are many different machine learning algorithms: linear regression, SVMs, neural networks, random forests, etc.
supervised learning and unsupervised learning.

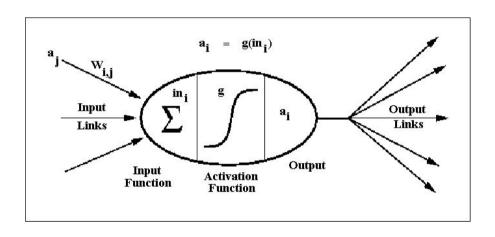
house market







An artificial neural network is an interconnected group of nodes, akin to the vast network of neurons in a brain. Here, each circular node represents an artificial neuron and an arrow represents a connection from the output of one neuron to the input of another.

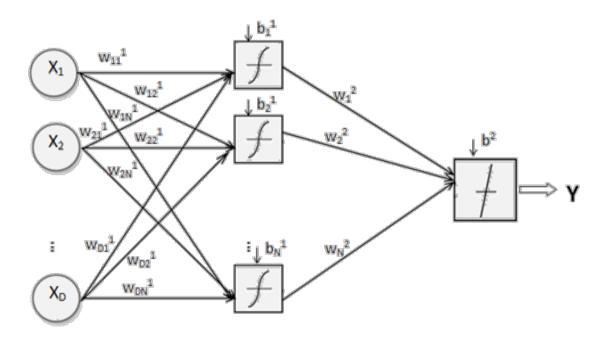


supervised and unsupervised learning

classification and regression

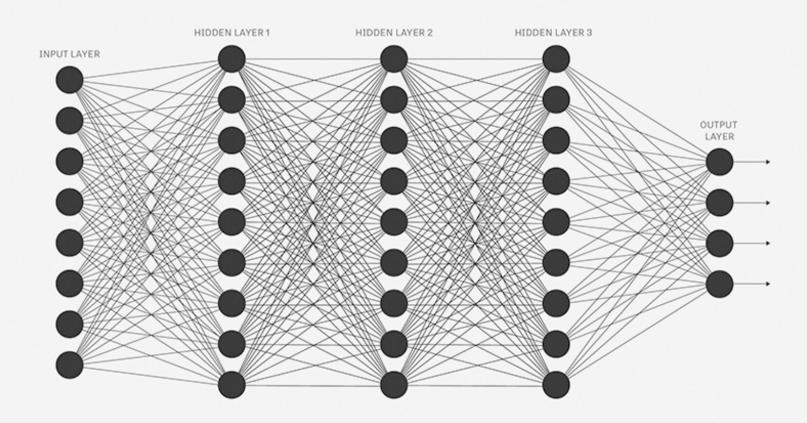
training and test data

overfitting

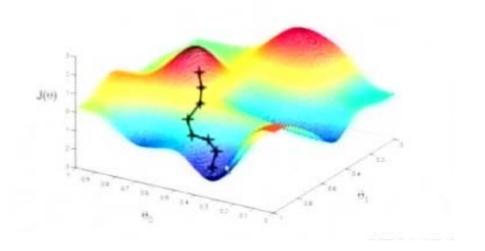


Deep LearningParallelism (processing power, GPU)Big Data

Deep neural network



Gradient Descent

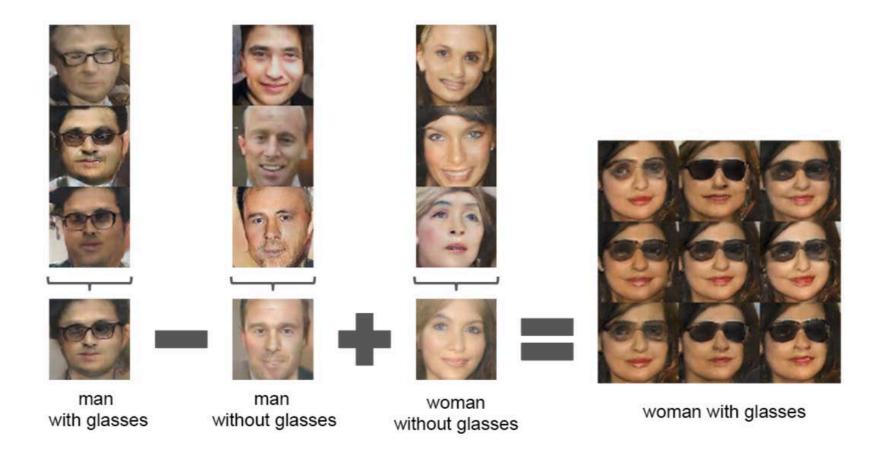


Backpropagation and gradient descent

There are different machine learning architectures applicable to different inputs and classification / prediction / generation tasks.

Convolutional Neural Networks
Recurrent Neural Networks
Long Term Short Memory Networks
Generative Adversarial Networks

Consciousness, modelling, and general Al



Impact



Are there any areas that are immune to a ML approach?

Are there any dangers, caveats inherent to ML?

Do ML systems only replicate existing social problems or do they introduce new ones?

Science

Artifically intelligent 'judge' developed which can predict court verdicts with 79 per cent accuracy





A statue representing the scales of justice at the Old Bailey, Central Criminal Court in London

FOLLOW TELEGRAPH SCIENCE & TECH







A computer 'judge' has been developed which can correctly **predict** verdicts of the European Court of Human Rights with 79 per cent accuracy. Computer scientists at University College London and the University of Sheffield **developed an algorithm which can not only weigh up legal evidence, but also moral considerations**.

As early as the 1960s experts predicted that computers would one day be able to predict the outcomes of judicial decisions. But the new method is the first to predict the outcomes of court cases by automatically analysing case text using a machine learning algorithm.

"We don't see AI replacing judges or lawyers, but we think they'd find it useful for rapidly identifying patterns in cases that lead to certain outcomes," said Dr Nikolaos Aletras, who led the study at UCL Computer Science.

"There is this popular view that if you can automate one piece of the work, the rest of the job is toast. That's just not true, or only rarely the case."

Frank Levy (MIT)

Sent to Prison by a Software Program's Secret Algorithms

Sidebar

By ADAM LIPTAK MAY 1, 2017



Chief Justice John G. Roberts Jr., center, recently said that the day of using artificial intelligence in courtrooms was already here, "and it's putting a significant strain on how the judiciary goes about doing things." Stephen Crowley/The New York Times

When Chief Justice John G. Roberts Jr. visited Rensselaer Polytechnic Institute last month, <u>he was asked a startling question</u>, one with overtones of science fiction.

Sidebar

Coverage and consideration of developments in the world of law.

Why Gorsuch May Not Be So Genteel on the Bench	APR 17
Trump's Precedent for Claiming Immunity? Clinton v. Jones	APR 3
Will Gorsuch Join Justices in Time to Matter This Term?	MAR 20
Did the Supreme Court Base a Ruling on a Myth?	MAR 6
On Free Press, Supreme Court Pick at Odds With Trump	FEB 20

See More »

The report in Mr. Loomis's case was produced by a product called **Compas**, sold by Northpointe Inc. It included a series of bar charts that **assessed the risk that Mr. Loomis would commit more crimes**.

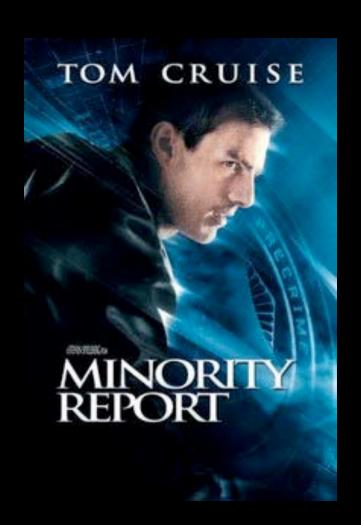
The Compas report, a prosecutor told the trial judge, showed "a high risk of violence, high risk of recidivism, high pretrial risk." The judge agreed, telling Mr. Loomis that "you're identified, through the Compas assessment, as an individual who is a high risk to the community."

[...]

In the end, though, Justice Bradley allowed sentencing judges to use Compas. They must take account of the algorithm's limitations and the secrecy surrounding it, she wrote, but said the software could be helpful "in providing the sentencing court with as much information as possible in order to arrive at an individualized sentence."

Justice Bradley made Compas's role in sentencing sound like the consideration of race in a selective university's holistic admissions program. It could be one factor among many, she wrote, but not the determinative one.

https://www.nytimes.com/2017/05/01/us/politics/sent-to-prison-by-a-software-programs-secret-algorithms.html





Wisconsin Department of Corrections

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About

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COMPAS Assessment Tool

The DOC uses COMPAS as its statewide automated risk and needs assessment and unified case planning system. This actuarial risk assessment system contains offender information specifically designed to determine their risk and needs and inform dynamic case plans that will guide the offender throughout his or her lifecycle in the criminal justice system. The lifecycle is a framework for how an offender moves through the Wisconsin criminal justice system and the decision points informed by COMPAS along the way. From the time of arrest through eventual discharge, DOC will use the lifecycle as a framework for establishing meaningful practices and interventions across jurisdictions.

Evidence Based Practices clearly state that having a sound assessment that accurately identifies an offender's risk to reoffend is the cornerstone of effective supervision. Without a proper assessment, appropriate interventions and services cannot be delivered. The limited dollars available for such services should be reserved for moderate to higher-risk offenders who are likely to reoffend if appropriate interventions are not taken. Research shows low risk offenders are less likely to commit new crimes and should be given minimal services and be excluded from intensive treatment and supervision.

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Victim Resources Office of Victim Services & Programs **Notification Services** Restorative Justice

Community Resources Find an Offender WI Sex Offender Registry Probation and Parole Community Partners Prison Rape Elimination Act FAQ

Employment Employment Opportunities Career Paths FAQ



Wisconsin Department of Corrections

3099 E. Washington Ave. P.O. Box 7925 Madison, Wisconsin 53707-7925

Phone: 608-240-5000, 5 docweb@wi.gov

Our analysis found that:

- Black defendants were often predicted to be at a higher risk of recidivism than
 they actually were. Our analysis found that black defendants who did not
 recidivate over a two-year period were nearly twice as likely to be misclassified
 as higher risk compared to their white counterparts (45 percent vs. 23 percent).
- White defendants were often predicted to be less risky than they were. Our analysis found that white defendants who re-offended within the next two years were mistakenly labeled low risk almost twice as often as black reoffenders (48 percent vs. 28 percent).
- The analysis also showed that even when controlling for prior crimes, future recidivism, age, and gender, black defendants were 45 percent more likely to be assigned higher risk scores than white defendants.
- Black defendants were also twice as likely as white defendants to be misclassified as being a higher risk of violent recidivism. And white violent recidivists were 63 percent more likely to have been misclassified as a low risk of violent recidivism, compared with black violent recidivists.
- The violent recidivism analysis also showed that even when controlling for prior crimes, future recidivism, age, and gender, black defendants were 77 percent more likely to be assigned higher risk scores than white defendants.

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

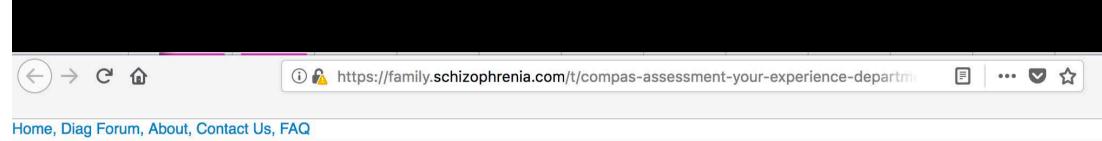


Historical bias

"Historical bias is a fundamental, structural issue with the first step of the data generation process and can exist even given perfect sampling and feature selection." – Suresh et. al. 2019

Prediction Fails Differently for Black Defendants		
	WHITE	AFRICAN AMERICAN
Labeled Higher Risk, But Didn't Re-Offend	23.5%	44.9%
Labeled Lower Risk, Yet Did Re-Offend	47.7%	28.0%

Harini Suresh @harini824



schizophrenia.com

COMPAS Assessment - Your experience? (department of corrections)

Family



Mary

2 / Feb 20

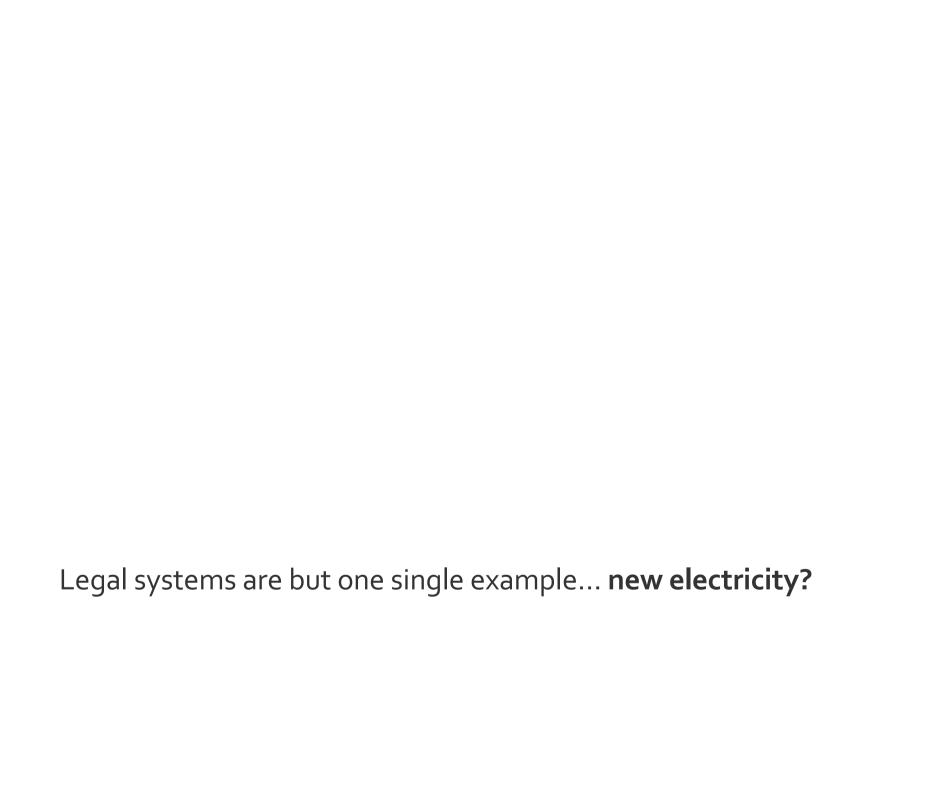
My son received a letter from the DA's office to have a COMPAS assessment done. It's an assessment that the dept of corrections in my state has Have any of you heard of this as I'm a little wary of this as they state my son has a choice on whether or not to go through this assessment. We meet with the public defender tomorrow so just want to get some opinions from all of you regarding this assessment before this meeting. Thanks so much!

1 Reply ✓

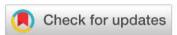




There is a major qualitative change due to not having to **explicitly model** a problem



♠ > Current Issue > vol. 108 no. 17 > Shai Danziger, 6889–6892



Extraneous factors in judicial decisions

Shai Danziger^{a,1}, Jonathan Levav^{b,1,2}, and Liora Avnaim-Pesso^a

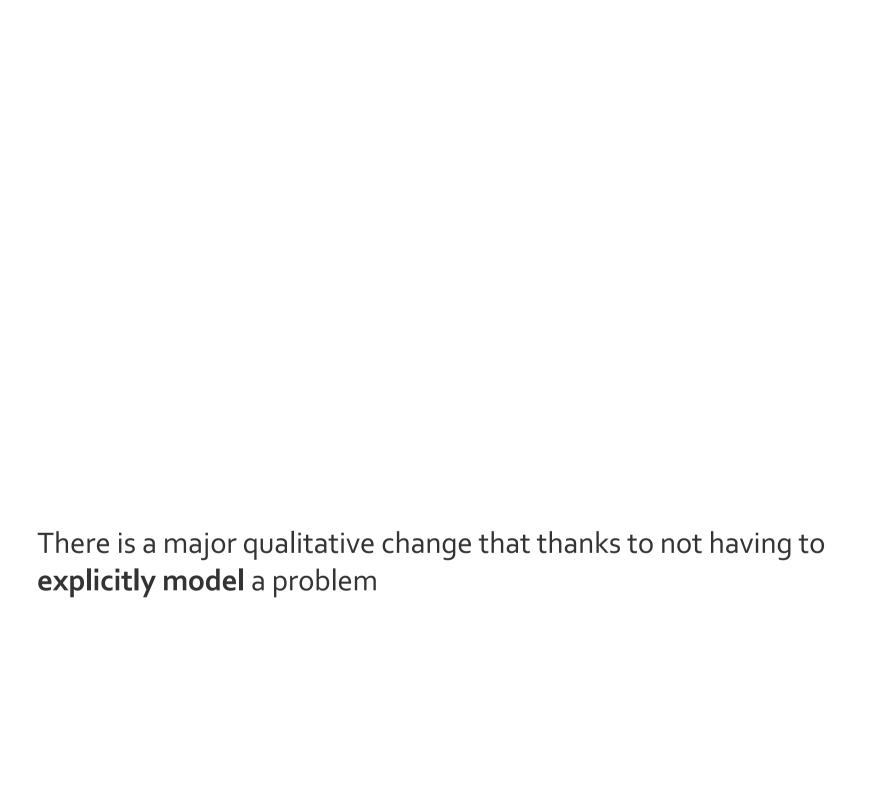
Edited* by Daniel Kahneman, Princeton University, Princeton, NJ, and approved February 25, 2011 (received for review December 8, 2010)

Abstract

Are judicial rulings based solely on laws and facts? Legal formalism holds that judges apply legal reasons to the facts of a case in a rational, mechanical, and deliberative manner. In contrast, legal realists argue that the rational application of legal reasons does not sufficiently explain the decisions of judges and that psychological, political, and social factors influence judicial rulings. We test the common caricature of realism that justice is "what the judge ate for breakfast" in sequential parole decisions made by experienced judges. We record the judges' two daily food breaks, which result in segmenting the deliberations of the day into three distinct "decision sessions." We find that the percentage of favorable rulings drops gradually from ≈65% to nearly zero within each decision session and returns abruptly to ≈65% after a break. Our findings suggest that judicial rulings can be swayed by extraneous variables that should have no bearing on legal decisions.

^aDepartment of Management, Ben Gurion University of the Negev, Beer Sheva 84105, Israel; and

^bColumbia Business School, Columbia University, New York, NY 10027



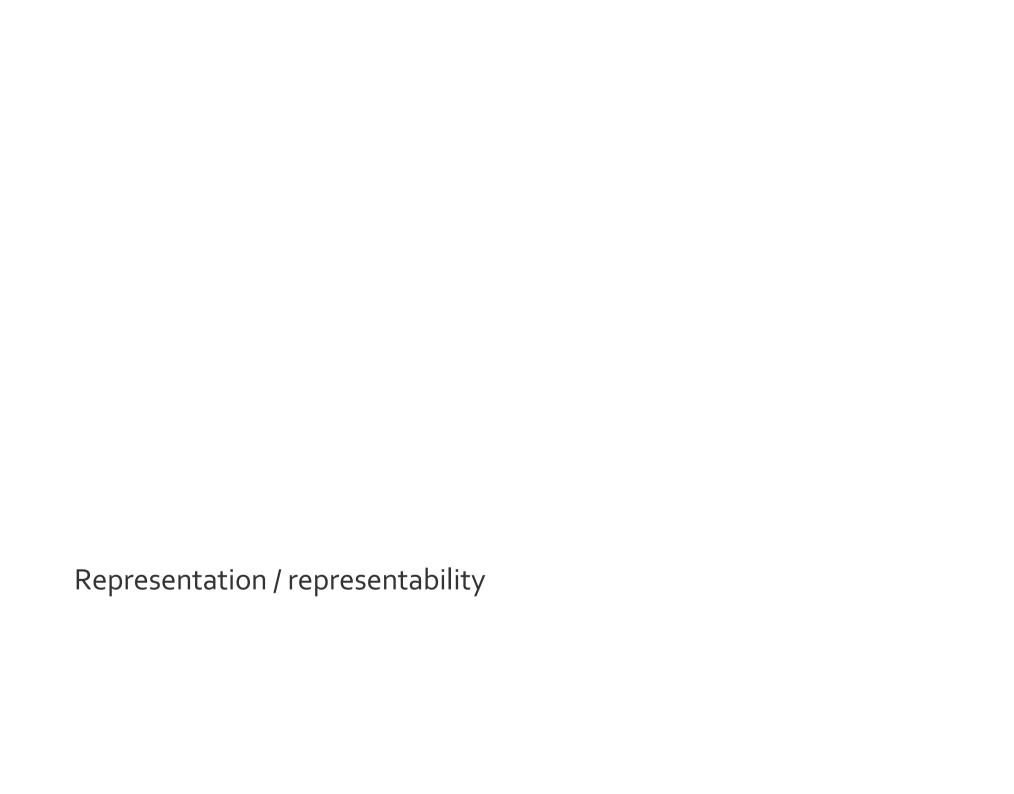
How AI can help diagnose mental disorders:

https://www.theatlantic.com/health/archive/2016/08/could-artificial-intelligence-improve-psychiatry/496964/

Machine learning could train software to spot verbal tics associated with schizophrenia, depression, and bipolar disorder. This model focused on tell-tale verbal tics of psychosis: short sentences, confusing, frequent use of words like "this," "that," and "a," as well as a muddled sense of meaning from one sentence to the next.

Socially Sensitive AI Software Coaches Call-Center Workers:

https://www.technologyreview.com/s/603529/socially-sensitive-ai-software-coaches-call-center-workers/ (teaching humans being more humane)



What is classification?

What can be predicted?

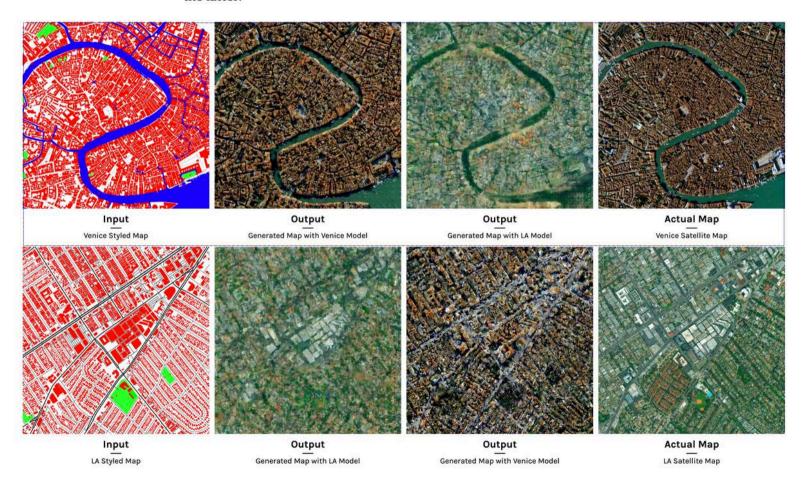


"A Neural Algorithm of Artistic Style", Leon Gatys et al., originally released to Arxiv 2015

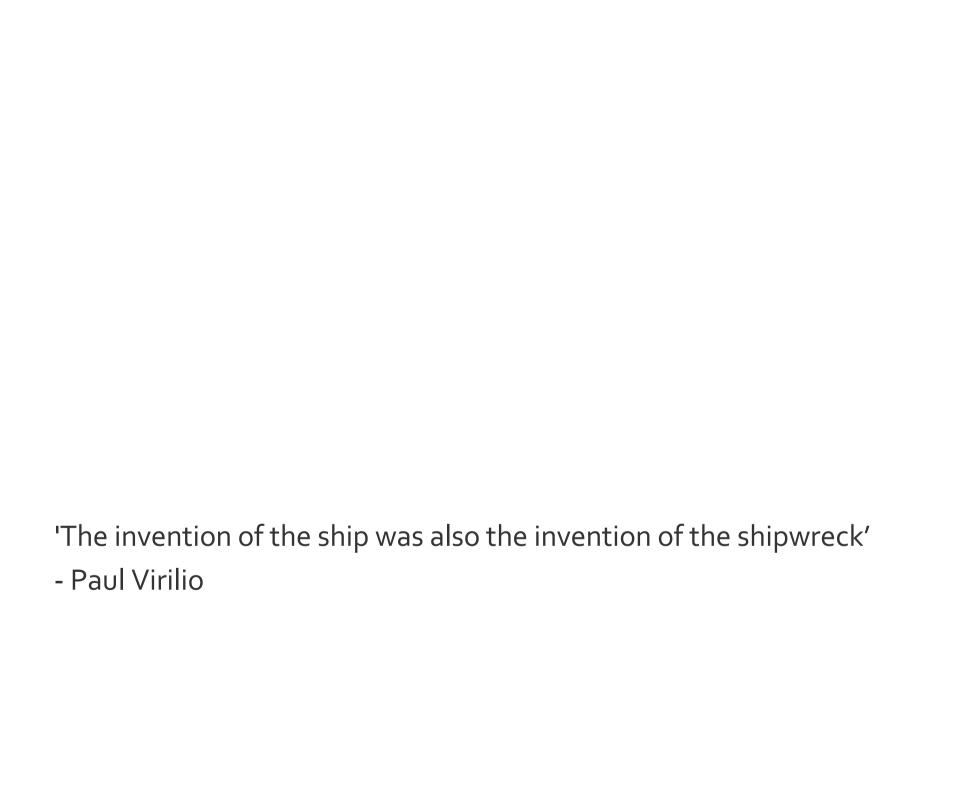
Gallery

City style transfer

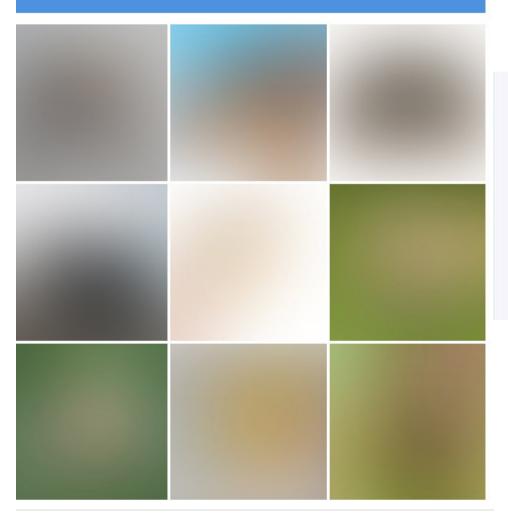
With this technique, we fed map tiles of one city to the generative model of another city, producing satellite imagery of the former in the style of the latter.



Critical Design

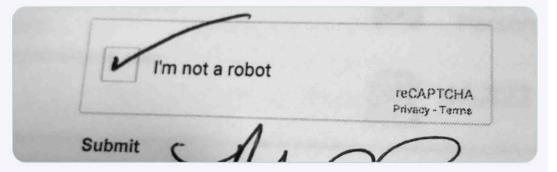


Select all squares with **spiders**





I bought a car today, and the dealership had me check off — with a pen, on paper — that I'm not a robot.



Is this ML model doing good?
How is this ML model shifting power?

Ria Kalluri @radical_ai_

Why filming police violence has done nothing to stop it?

"After years of police body cams and bystander cellphone video, it's clear that evidentiary images on their own don't bring about change. What's missing is power."

Ethan Zuckerman

https://www.technologyreview.com/2020/06/03/1002587/sousveillance-george-floyd-police-body-cams/

Pattern: We watch those who are "less than." Will you spy on your superior? Or will you spy on the poor man, the person of color, the immigrant, the heretic? We watch those who are "other."

Pattern: When those "others" organize, mobilize, that watching is redoubled. Surveillance becomes a tool to stop marginalized people from achieving power.

"Privacy and Civil Rights in the Age of Facebook, ICE, and the NSA"

Professor Alvaro M. Bedoya

https://docs.google.com/document/d/1Px-Q5MFw54HGpJhY4Q_HQDoKF8qLU79wmPJXsoEpXYI/edit

Our modelling of the political impact of technology is, at best, naïve, and often willful ignorant

Steve Mann's *sousveillance*, the idea that connected cameras controlled by citizens could be used to hold power accountable has not worked.

Technology is determined by the "power vector field" where it's inserted.

It turns out that images matter, but so does power. Bentham's panopticon works because the warden of the prison has the power to punish you if he witnesses your misbehaviour.

But Bentham's other hope for the panopticon—that the behaviour of the warden would be transparent and evaluated by all who saw him—has never come to pass.

Ethan Zuckerman

https://www.technologyreview.com/2020/06/03/1002587/sousveillance-george-floyd-police-body-cams/

The filming of police violence, however, has played an important role in *informing* the society.



Derek Chauvin, murderer of George Floyd



Amazon's Ring reportedly partners with more than 200 US police departments

Law enforcement across the country works with Ring

By Colin Lecher | @colinlecher | Jul 29, 2019, 6:22pm EDT

The inequitable and brutal treatment of Black people in our country must stop.

Together we stand in solidarity with the Black community – our employees, customers, and partners – in the fight against systemic racism and injustice.

amazoi



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ACM CAREERS

Facial Recognition Software Predicts Criminality, Researchers Say

By Harrisburg University May 6, 2020

Comments

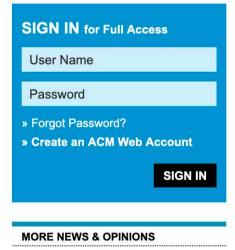
Comments





A group of Harrisburg University professors and a Ph.D. student have developed automated computer facial recognition software capable of predicting whether someone is likely to become a criminal.

With 80 percent accuracy and with no racial bias, the software can predict if someone is a criminal based solely on a picture of their face. The software is intended to help law enforcement prevent crime.



Tech Firms Seek to Head Off Bans on Facial Recognition

A group of Harrisburg University professors and a Ph.D. student have developed automated computer facial recognition software capable of predicting whether someone is likely to become a criminal.

With 80 percent accuracy and with no racial bias, the software can predict if someone is a criminal based solely on a picture of their face. The software is intended to help law enforcement prevent crime.

https://cacm.acm.org/careers/244713-facial-recognition-software-predicts-criminality-researchers-say/fulltext

"By automating the identification of potential threats without bias, our aim is to produce tools for crime prevention, law enforcement, and military applications that are less impacted by implicit biases and emotional responses," Ashby says. "Our next step is finding strategic partners to advance this mission."

"Crime is one of the most prominent issues in modern society. Even with the current advancements in policing, criminal activities continue to plague communities," Korn says. "The development of machines that are capable of performing cognitive tasks, such as identifying the criminality of person from their facial image, will enable a significant advantage for law enforcement agencies and other intelligence agencies to prevent crime from occurring in their designated areas."



We'd like to understand how you use our websites in order to improve t

Research Open Access Published: 07 January 2020

Criminal tendency detection from facial images and the gender bias effect

Mahdi Hashemi 2 & Margeret Hall

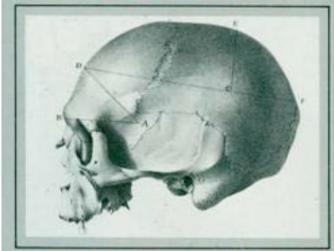
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3247 Accesses 2 Citations 63 Altmetric Metrics

Abstract

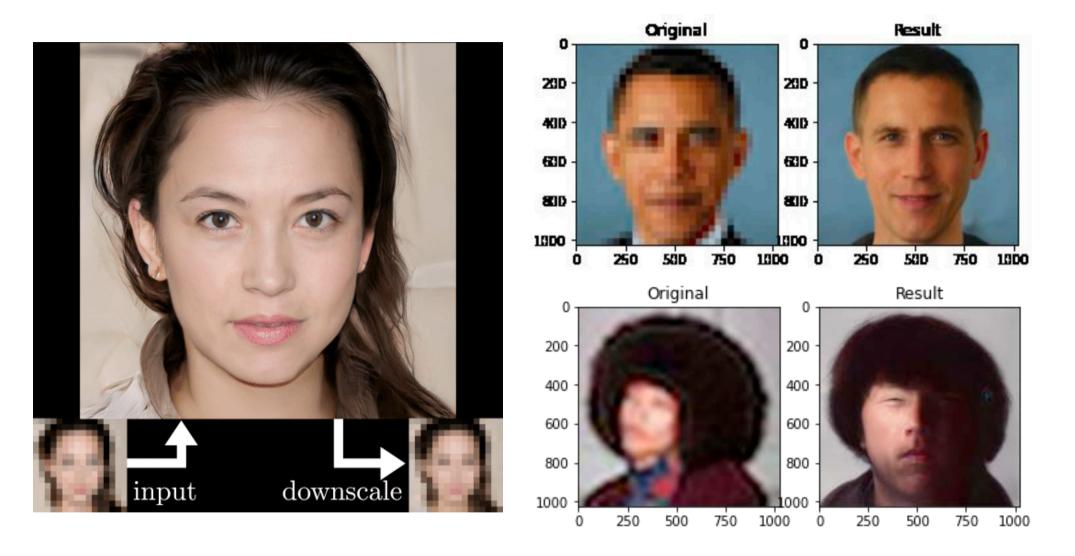
Explosive performance and memory space growth in computing machines, along with recent specialization of deep learning models have radically boosted the role of images in semantic pattern recognition. In the same way that a textual post on social media reveals individual characteristics of its author, facial images may manifest some personality traits. This work is the first milestone in our attempt to infer personality traits from facial images. With this

The Mismeasure of Man



Stephen Jay Gould

author of Ever Since Darwin and The Panda's Thumb



https://github.com/tg-bomze/Face-Depixelizer

Facial feature discovery for ethnicity recognition

Cunrui Wang^{1,2} | Qingling Zhang² | Wanquan Liu³ | Yu Liu¹ | Lixin Miao¹

¹Dalian Key Lab of Digital Technology for National Culture & Institute of System Science, Northeastern University, Dalian Nationalities University, Dalian, China

²Institute of System Science, Northeastern University, Shenyang, China

³Department of Computing, Curtin University, Perth, Western Australia, Australia

Correspondence

Cunrui Wang, Dalian Key Lab of Digital Technology for National Culture & Institute of System Science, Northeastern University, Dalian Nationalities University, China. Email: cunruiwang@qq.com

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National Natural Science Foundation of China, Grant Number: 61562093, 61772575; China Education & Research Network Innovation Project, Grant Numbers: NGII20170419, NGII20170631 The salient facial feature discovery is one of the important research tasks in ethnical group face recognition. In this paper, we first construct an ethnical group face dataset including Chinese Uyghur, Tibetan, and Korean. Then, we show that the effective sparse sensing approach to general face recognition is not working anymore for ethnical group facial recognition if the features based on whole face image are used. This is partially due to a fact that each ethnical group may have its own characteristics manifesting only in specified face regions. Therefore, we will analyze the particularity of three ethnical groups and aim to find the common characterizations in some local regions for the three ethnical groups. For this purpose, we first use the facial landmark detector STASM to find some important landmarks in a face image, then, we use the well-known data mining technique, the mRMR algorithm, to select the salient geometric length features based on all possible lines connected by any two landmarks. Second, based on these selected salient features, we construct three "T" regions in a face image for ethnical feature representation and prove them to be effective areas for ethnicity recognition. Finally, some extensive experiments are conducted and the results reveal that the proposed "T" regions with extracted features are quite effective for ethnical group facial recognition when the L_2 -norm is adopted using the sparse sensing approach. In comparison to face recognition, the proposed three "T" regions are evaluated on the olivetti research laboratory face dataset, and the results show that the constructed "T" regions for ethnicity recognition are not suitable for general face recognition.

In spite of lacking a genetic definition of race or ethnicity (which would be akin to proposing a genetic definition of nationality), it is possible to find statistical correlations between genetic composition and ethnical groups. A narrative actively marketed by personal genetic companies.

Leaving aside the fact that these tests are *wildly* inaccurate (genetic markers evolve over time, they are not always passed, and people migrate, among other complexities), these tests put forward the idea that biological differences have a deep, fundamental meaning.

This spurious correlation between genetic makeup and ethnicity transcends the personal sphere, having been co-opted by several organised racist groups that use them as a source of self-validation, as well as fuelling the implementation of state-wide policies aiming at using DNA ancestry as a form of social policing.

For example, in patented research published by Chinese government researchers, they described "ways to sort people by ethnicity by screening their genetic makeup" with the explicit intention of surveilling Uyghurs, with a system that would help in "inferring the geographical origin from the DNA of suspects at crime scenes. (*)"

(*) Wee, S.-L. https://www.nytimes.com/2019/02/21/business/china-xinjiang-uighur-dna-thermo-fisher.html

Deep neural networks are more accurate than humans at detecting sexual orientation from facial images.

Yilun Wang, Michal Kosinski

We show that faces contain much more information about sexual orientation than can be perceived and interpreted by the human brain. We used deep neural networks to extract features from 35,326 facial images. These features were entered into a logistic regression aimed at classifying sexual orientation. Given a single facial image, a classifier could correctly distinguish between gay and heterosexual men in 81% of cases, and in 74% of cases for women. Human judges achieved much lower accuracy: 61% for men and 54% for women. The accuracy of the algorithm increased to 91% and 83%, respectively, given five facial images per person.

"Imagine for a moment the potential consequences if this flawed research were used to support a brutal regime's efforts to identify and/or persecute people they believed to be gay," Ashland Johnson, Human Rights Campaign's director of public education and research, said in a statement.

"For one, I'm sure there is heavy data-set bias at work here. But since this is all not open code/data (surprise surprise), It's hard to tell. Secondly, the research makes definitive, binary statements about human sexuality - negating a very large cultural component in the *spectrum* of human sexuality."

Samim Winiger

https://www.theguardian.com/world/2017/sep/08/ai-gay-gaydar-algorithm-facial-recognition-criticism-stanford

However, **Kosinsky** (Stanford) predicts that AI algorithms will also be able to identify:

- a person's political beliefs
- whether they have high IQs
- whether they are predisposed to criminal behaviour
- whether they have specific personality traits

Kyle McDonald @kcimc · Oct 6

new work (in progress): a little-known research paper using a database of mugshots led led me into an investigation of the connection between face analysis and incarceration



Against Face Analysis

The use of mugshots in vision research, and the shift from face recognition to face attribute classification.

@ medium.com

https://medium.com/@kcimc/against-face-analysis-55066903535b

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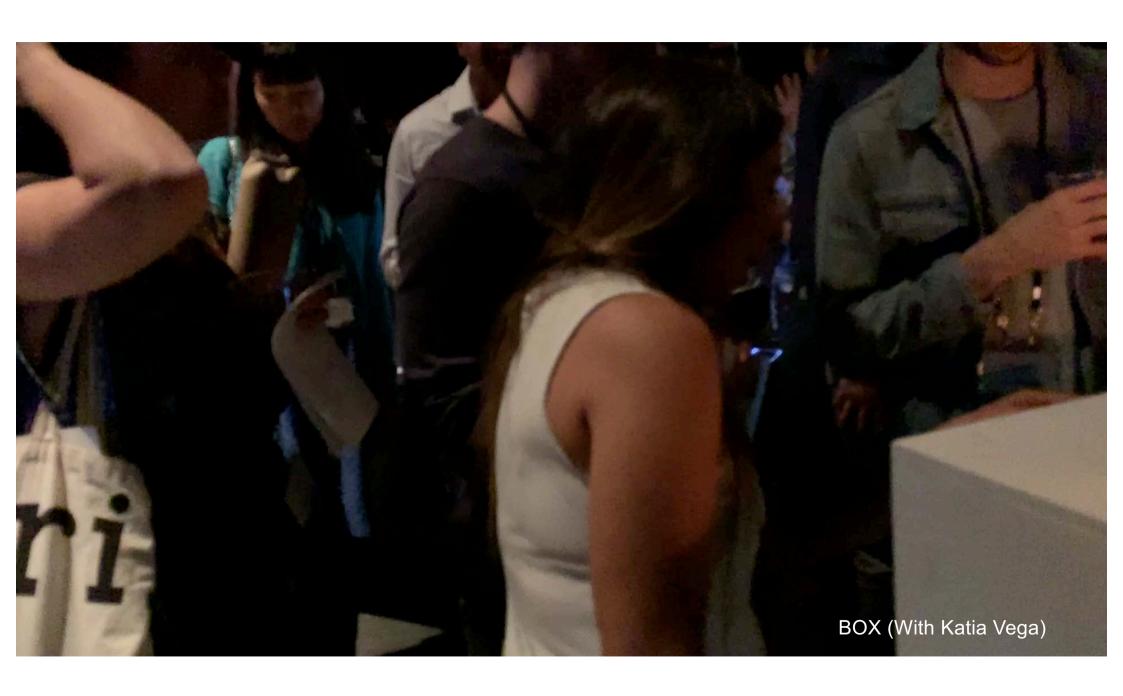










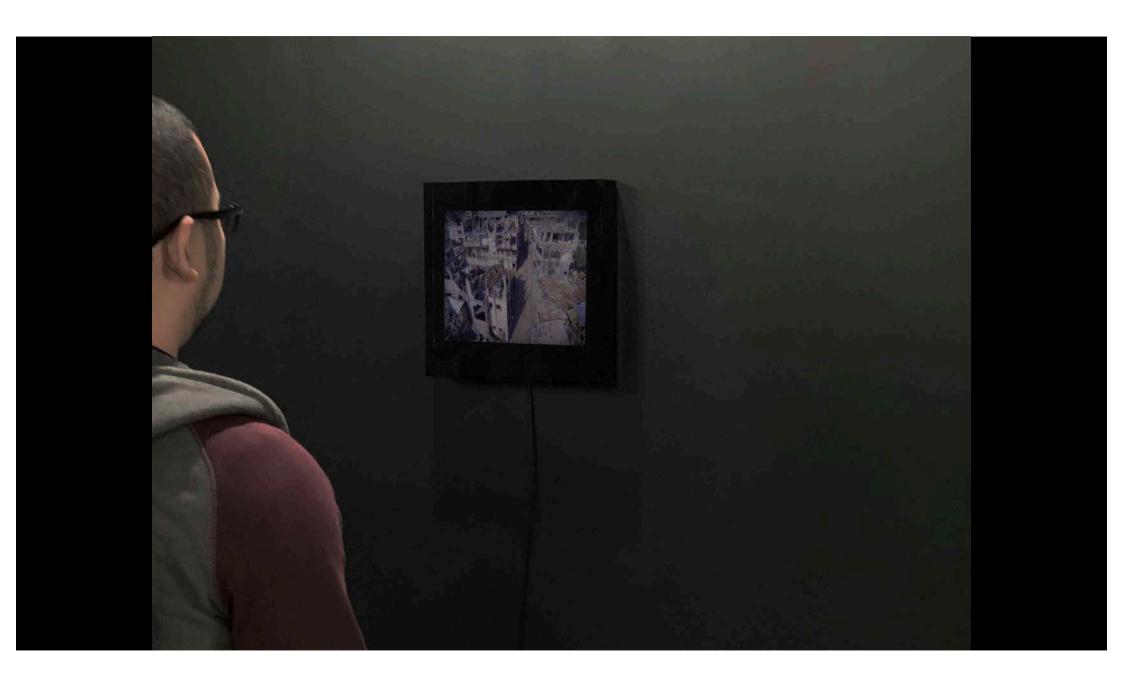


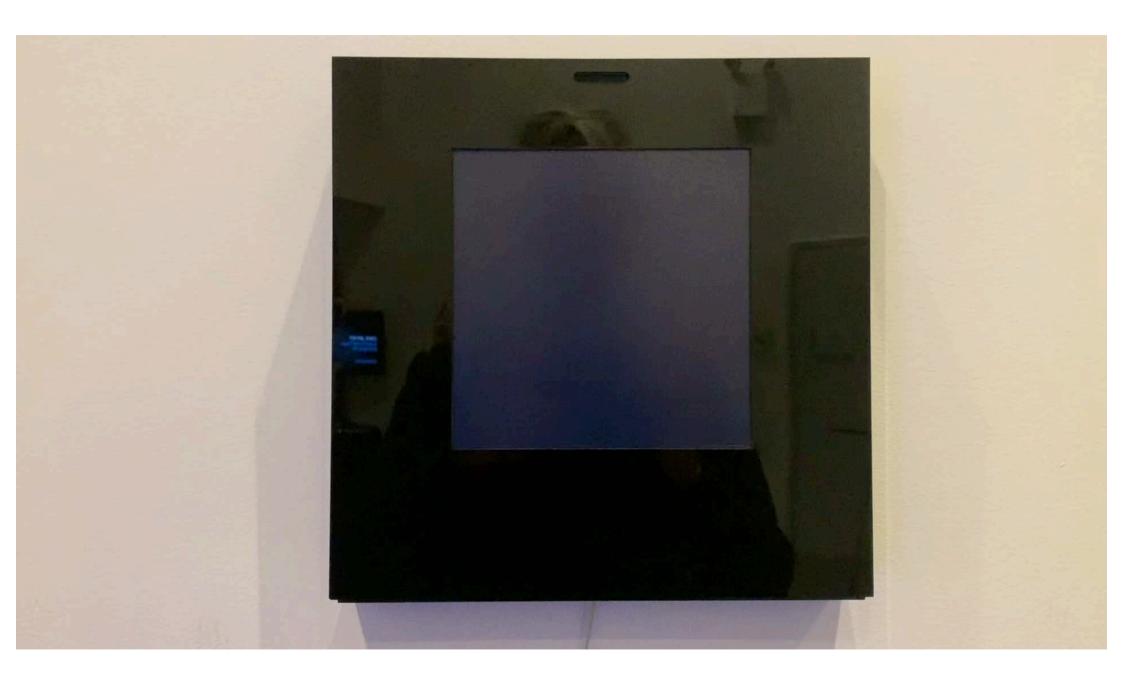


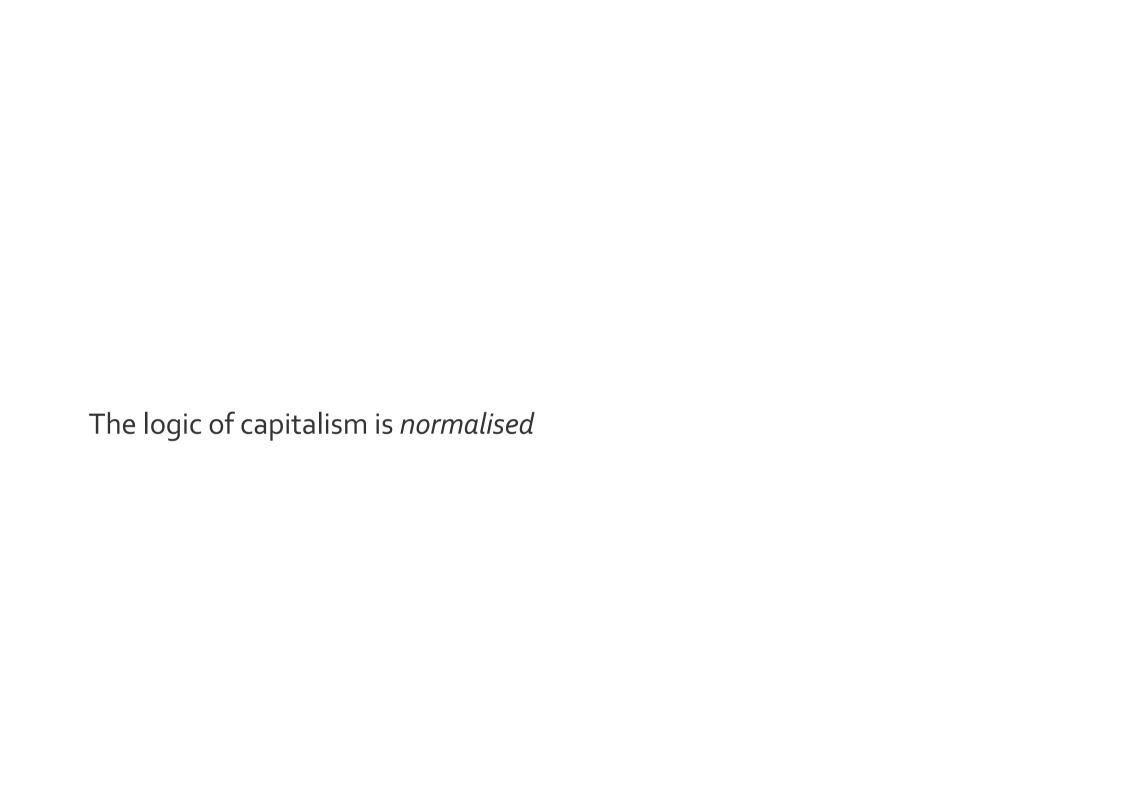




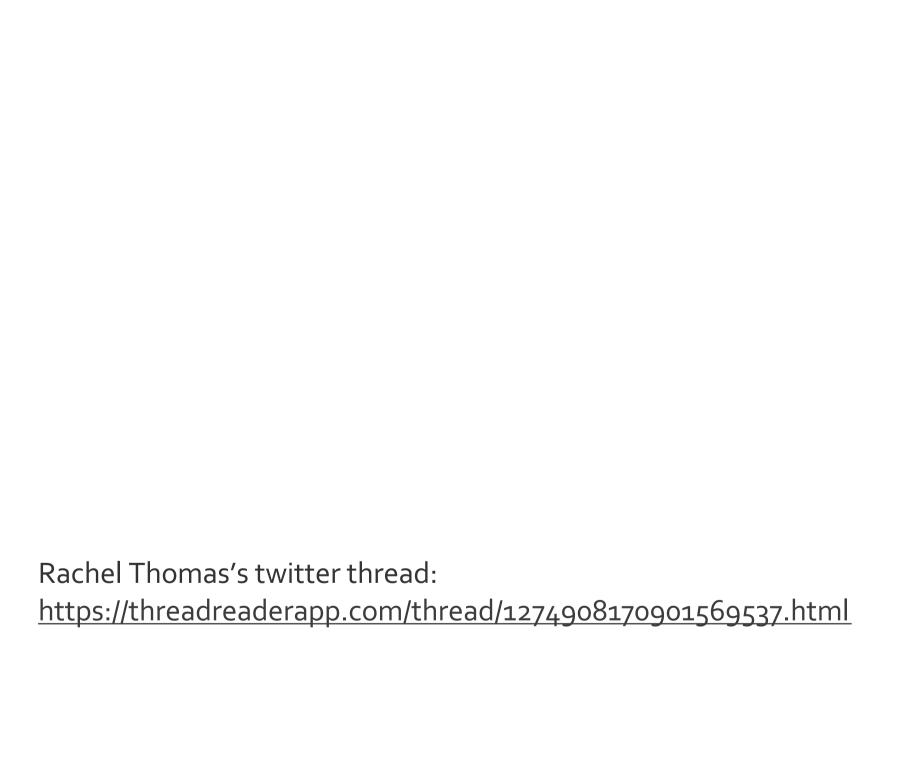








- 1. The danger of amplifying structural inequalities
- The liberation of attention
 - 1. What will happen with the industries that exist because the need of attention?
 - Human attention becomes desirable
 - on one hand you need to be rich to be given attention
 - on the other hand, automatization is marketed as an equaliser
- 3. The appearance of new ethical questions (e.g. synthetic illegal data) for which we don't have a default answer
- 4. Designing for the algorithm



Some tools to get started working directly with ML:

- ml5
- Runway (I've never used it, but I've heard very good things about it)
- Wekinator
- ML₄A (Gene Kogan)
- Tensorflow.js, Tensorflow, Pytorch, etc.

Thank you!

tomas@laurenzo.net

http://laurenzo.net

@krahd