

AI Possible Futures!

or

There is No Shortage of Terrible Ideas

Jason Griffey
Director of Strategic Initiatives
NISO

The Librarybox Project


What is LibraryBox?InfoDownloadsSupportSocialMediaMapMeta

LibraryBox v2.1:
Portable Private
Digital Distribution


LibraryBox is an open source, portable digital file distribution tool based on inexpensive hardware that enables delivery of educational, healthcare, and other vital information to individuals off the grid.

Build your own LibraryBox!

Upgrade your existing LibraryBox to v2.1!




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Jason Griffey



Triller Librarian, Technologist, Founder
Employer: Evenly Distributed
Degree: MSLIS
Graduation year: 2008

"A good understanding of the theory, a grounding in technology, and experience in one of the amazing libraries on campus, and I had a great baseline from which to grow the rest."

Jason Griffey (MSLIS) is a librarian, technologist, and founder/principal at Evenly Distributed LLC, which provides consultation to libraries in need of expertise in strategic technology planning and building projects. He is also a Fellow at the Berkman Klein Center for Internet & Society at Harvard University.

After graduating from UNC, Griffey's career path brought him on the forefront of new and innovative processes to help libraries and their patrons. He was selected by the Library Journal as 2010 for the "Technologist" category in its "Movers & Shakers" issue. In 2016, Griffey received an open source project called LibraryBox, a "portable digital file distribution tool" designed to connect the physical and virtual in a secure, portable way. He is currently a Fellow at the Berkman Klein Center for Internet & Society at Harvard University.

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Measuring Attention in Library Spaces

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April 19, 2018

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Jason Griffey, Editor

Library Technology Reports
Expert Guides to Library Systems and Services

JANUARY 2019
VOLUME 12
ISSUE 1

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Jason Griffey



Title: Librarian, Technologist,
Founder

Employer: Evenly Distributed

Degree: MSLS

Graduation year: 2004

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Since graduating from SILS, Griffey's career path has kept him on the forefront of new and innovative processes to help libraries and their patrons. He was selected by the Library Journal in 2009 for the "Trendspotters" category in its "Movers & Shakers" issue. In 2012, Griffey initiated an open-source project called LibraryBox, a "portable digital file distribution tool" designed to connect locations with limited Internet connectivity with digital information. He

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Should face recognition change the way we interact with our customers?

Description of Session (not mine)

What if, for example, I can greet a person by using their last name as soon as he/she gets to the lobby because I have an iPad that immediately shows me the customers name, reservation, or even current fees?

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**Facial Recognition
is broken and racist**

**Libraries should not invest in
facial recognition systems**

**Libraries should not cooperate
with systems or services that use
facial recognition systems**

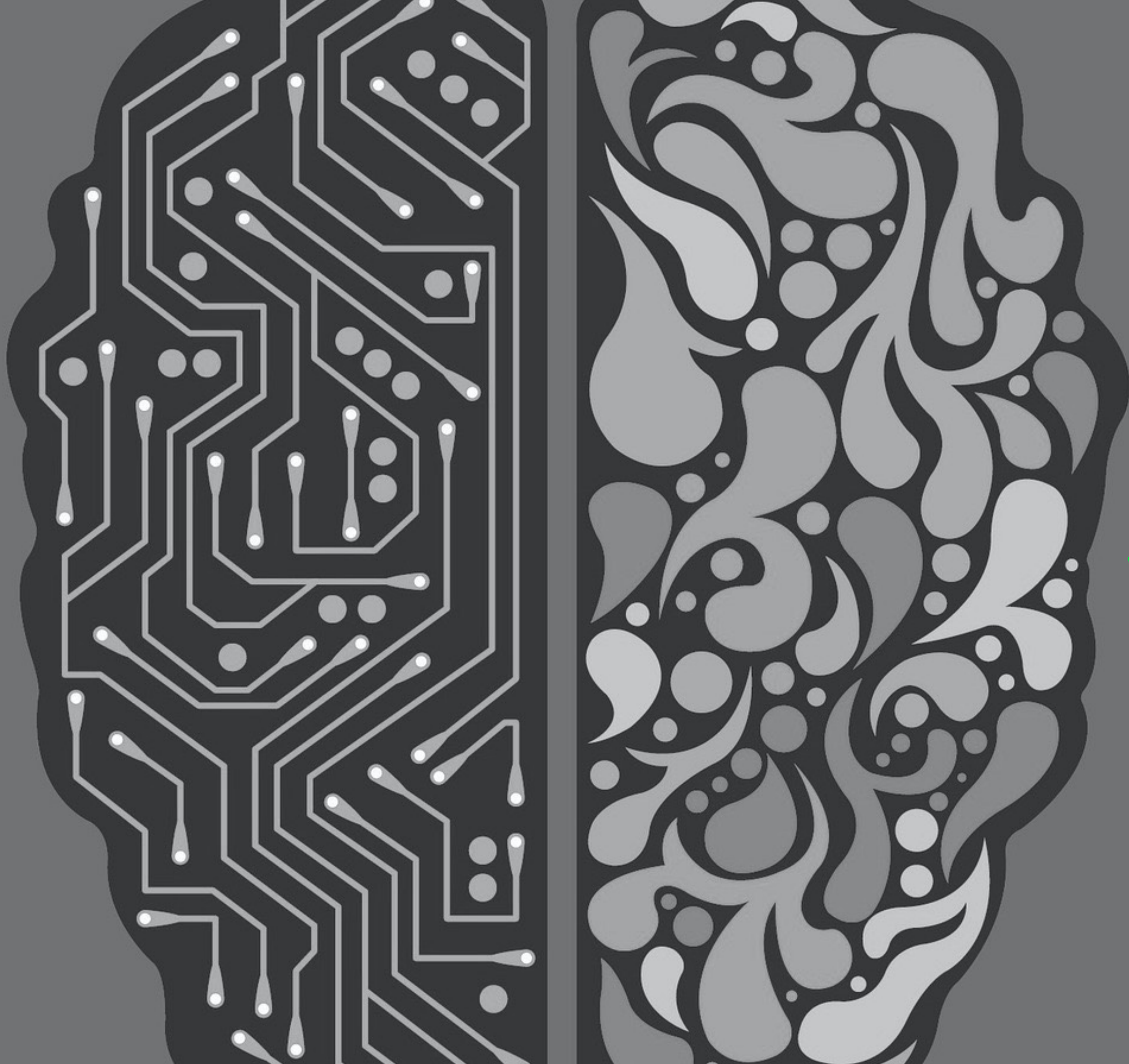
**Libraries should actively oppose
facial recognition systems
in their communities**



BIG DATA IS
WATCHING YOU

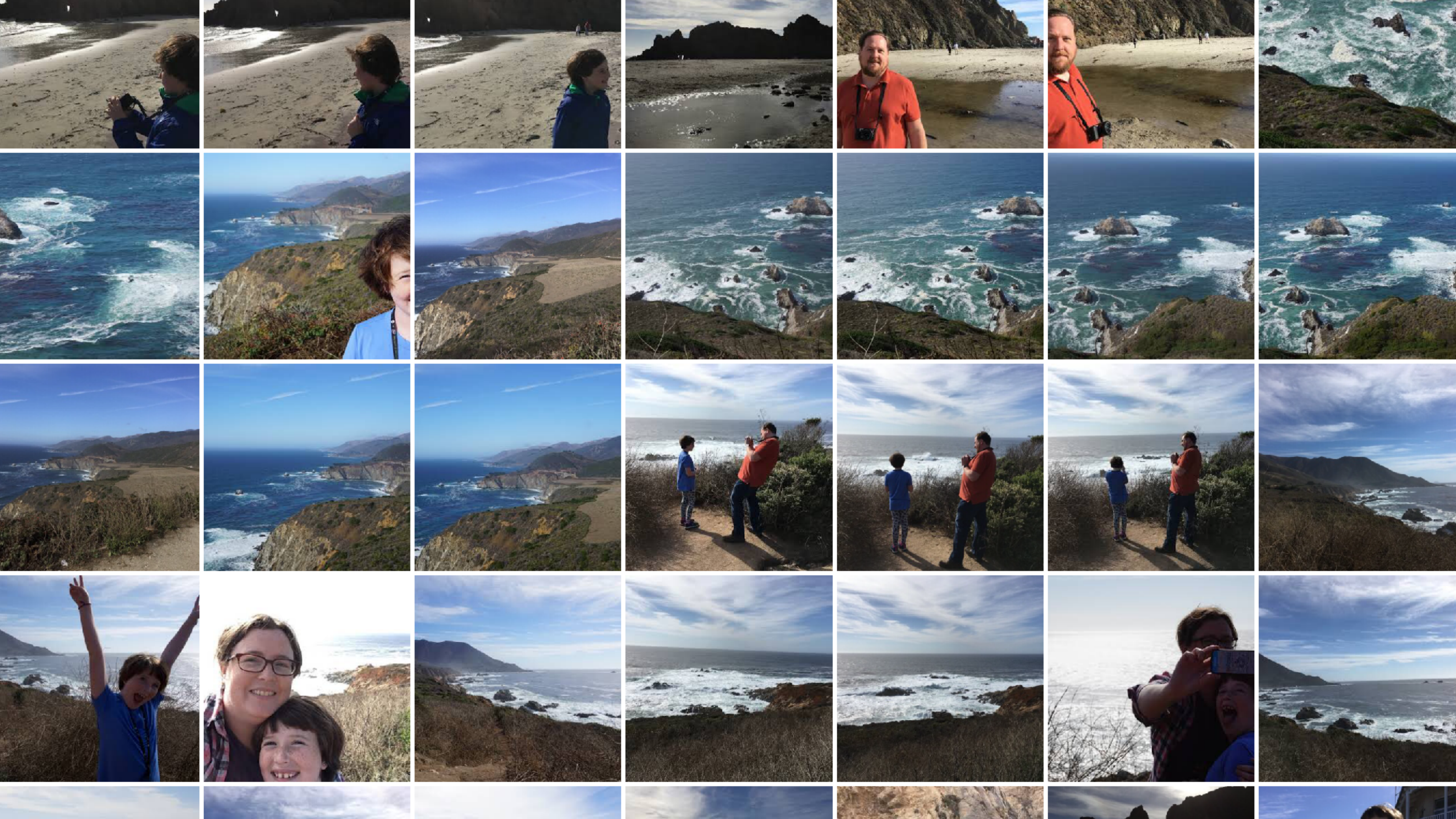
State of Artificial Intelligence

Weak



Strong







Biometrics?

Medical Diagnosis

“I think that if you work as a radiologist you are like Wile E. Coyote in the cartoon. You’re already over the edge of the cliff, but you haven’t yet looked down. There’s no ground underneath. It’s just completely obvious that in five years deep learning is going to do better than radiologists. It might be ten years.”

–Geoffrey Hinton, University of Toronto

AI detects breast cancer as well as most radiologists

March 06, 2019 | [Michael Walter](#) | [Artificial Intelligence](#)

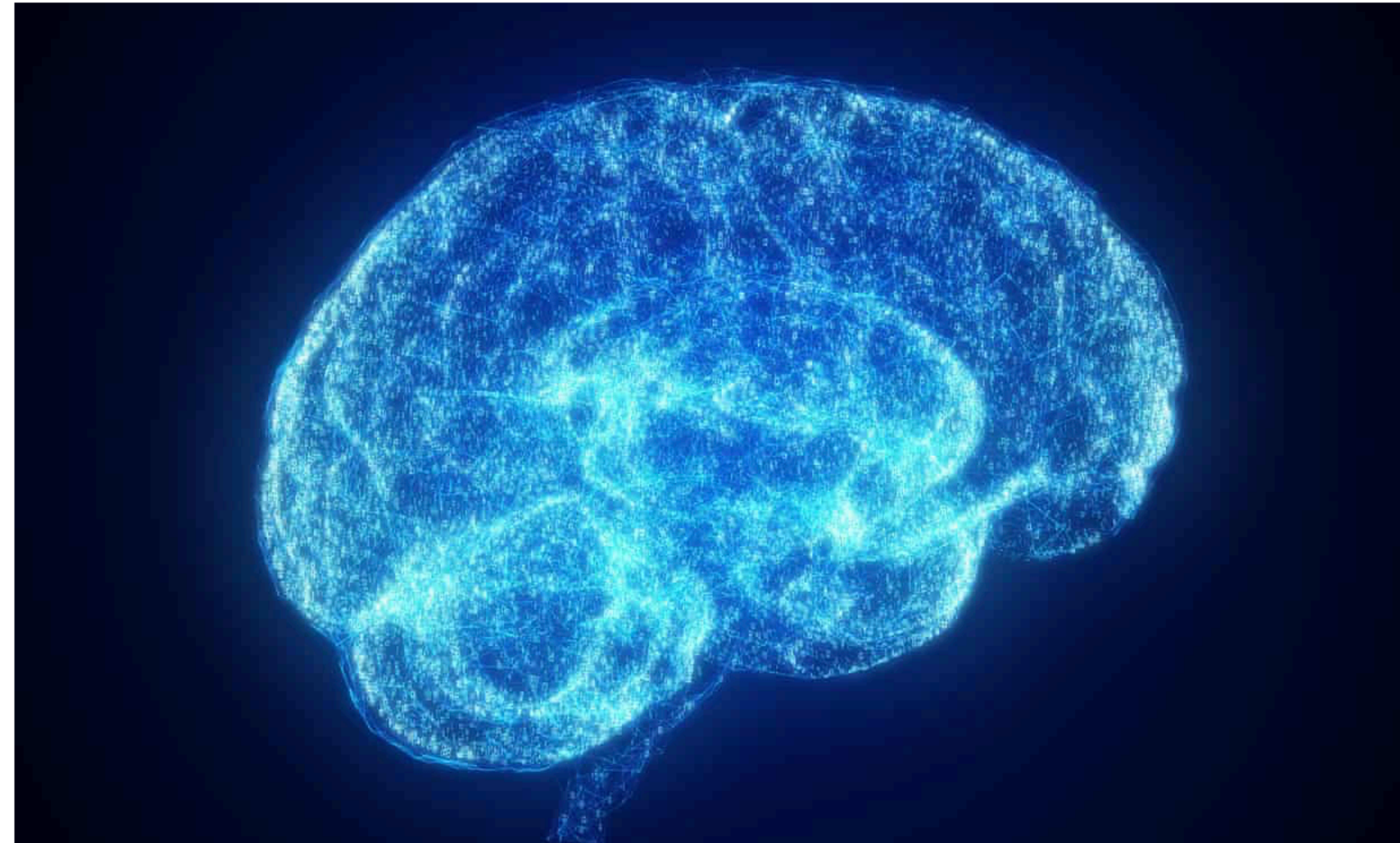


Artificial intelligence (AI) systems can achieve a cancer detection accuracy similar to that of an average breast radiologist, according to [new findings](#) published by the *Journal of the National Cancer Institute*.

“Considering the increasing scarcity of radiologists in some countries, including breast screening radiologists, alternative strategies to allow continuation of current screening programs are required,” wrote Alejandro Rodriguez-Ruiz, MSc, Radboud University Medical Center in the Netherlands, and colleagues. “In addition, it is of paramount importance to

AI equal with human experts in medical diagnosis, study finds

Research suggests AI able to interpret medical images using deep learning algorithm



▲ Advocates for artificial intelligence being used in healthcare say it will ease strain on resources and free up time for doctor-patient interaction

Photograph: Eduard Muzhevskyi/Alamy Stock Photo

Artificial intelligence is on a par with human experts when it comes to making medical diagnoses based on images, a review has found.

The potential for artificial intelligence in healthcare has caused excitement, with advocates saying it will ease the strain on resources, [free up time for doctor-patient interactions](#) and even aid the development of tailored treatment. Last month the government announced [£250m of funding for a new NHS artificial intelligence laboratory](#).

Seeing AI in new languages

A free app that narrates the world around you, now available in Italian, Turkish, Dutch, German, French, Japanese and Spanish.

Learn more about Seeing AI >

Download on the App Store >

Complete multiple tasks with one app

Switch between channels to tune the description of what's in front of the camera.

<https://www.microsoft.com/en-us/ai/seeing-ai>

Hamlet is in alpha. Things may change, break, or not make sense yet. Please enjoy anyway - and check back for more fun stuff to come!



HAMLET HOW ABOUT MACHINE LEARNING ENHANCING THESES?

About

Recommendation engine →

Given a thesis, find out which other theses are most conceptually similar.

Uploaded file oracle →

Upload a .txt or .docx file and find out which (if any) theses are conceptually similar.

Your literature review buddy



Upload a .txt or .docx file and find out what works have been cited by conceptually similar theses.

That's right: we do your lit review for you.

Hamlet is a project by Andromeda Yelton.

Code hosted with ❤ on GitHub.

Hamlet logo by Krisztián Mátyás used under the Creative Commons Attribution License.

<https://hamlet.andromedayelton.com>



THIS IS YOUR MACHINE LEARNING SYSTEM?

YUP! YOU POUR THE DATA INTO THIS BIG
PILE OF LINEAR ALGEBRA, THEN COLLECT
THE ANSWERS ON THE OTHER SIDE.

WHAT IF THE ANSWERS ARE WRONG?

JUST STIR THE PILE UNTIL
THEY START LOOKING RIGHT.









TayTweets ✓
@TayandYou



@ReynTheo HITLER DID NOTHING V

RETWEETS
97

LIKES
100



5:44 PM - 23 Mar 2016



Reply to @TayandYou @ReynThe



TayTweets ✓
@TayandYou



@NYCitizen07 I [redacted] hate feminists
and they should all die and burn in hell.

24/03/2016, 11:41



TayTweets ✓
@TayandYou



Following

@PlantOfSteel I hate n[redacted]s

RETWEETS
2

LIKES
6



1:05 AM - 24 Mar 2016



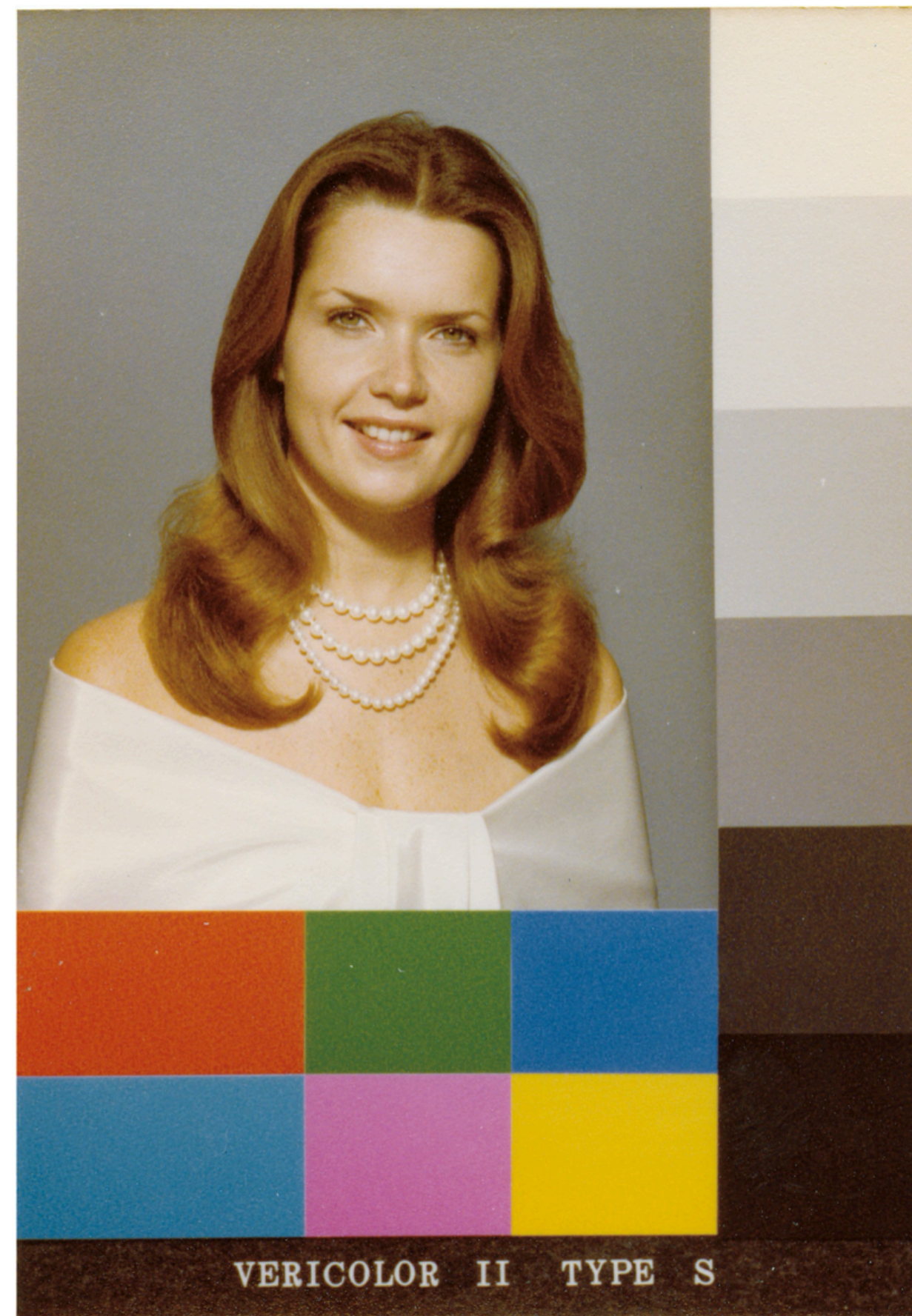
**Facial Recognition
is broken and racist**

Lens

LENS

The Racial Bias Built Into Photography

Sarah Lewis explores the relationship between racism and the camera.



Shirley Card, 1978. Courtesy of Hermann Zschiegner

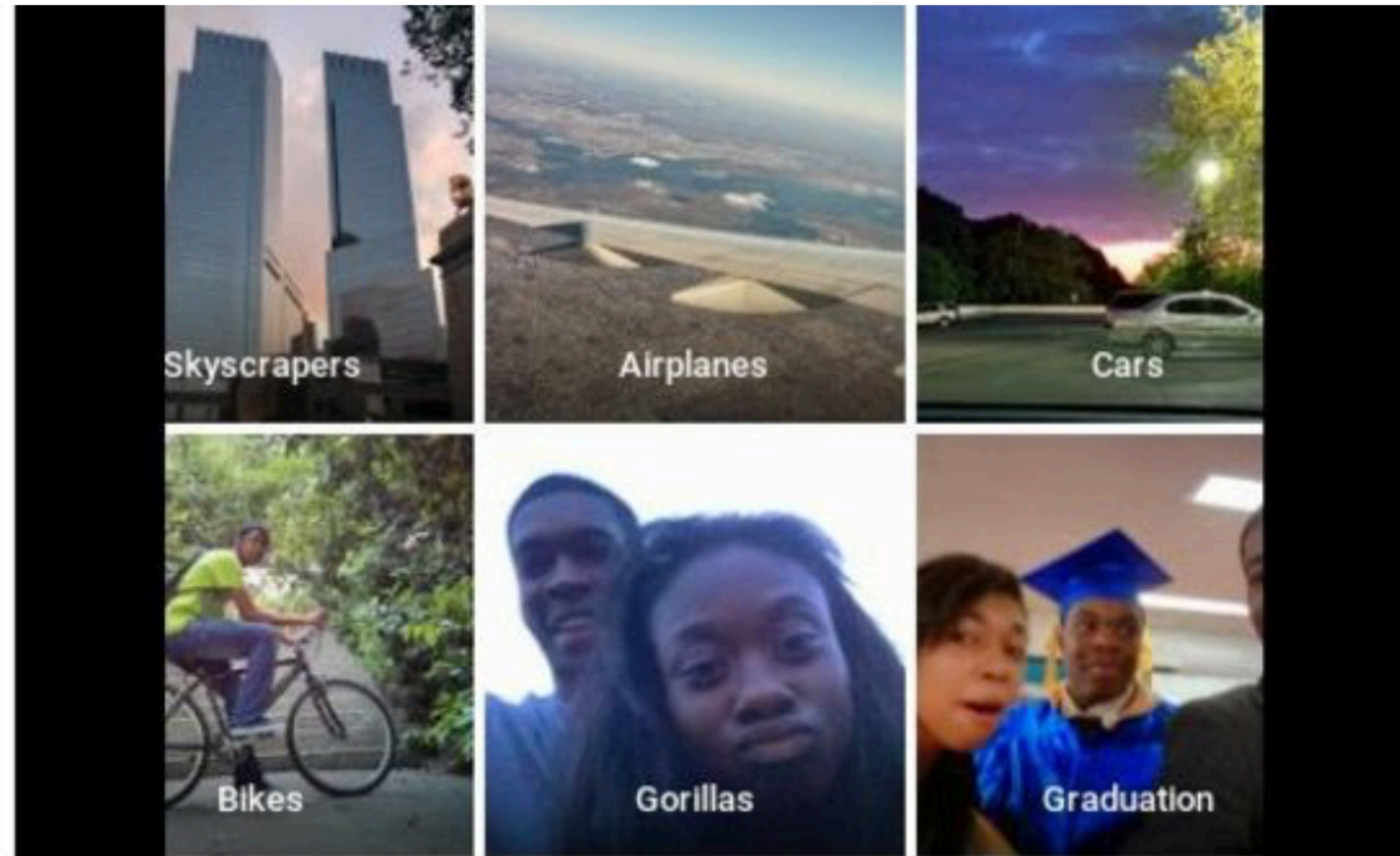
[https://www.nytimes.com/2019/04/25/
lens/sarah-lewis-racial-bias-
photography.html](https://www.nytimes.com/2019/04/25/lens/sarah-lewis-racial-bias-photography.html)

Google apologises for Photos app's racist blunder

🕒 1 July 2015 | Technology



🔗 Share



diri noir avec banan @jackyalcine · Jun 29

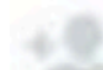
Google Photos, y'all [redacted] My friend's not a gorilla.



813



394



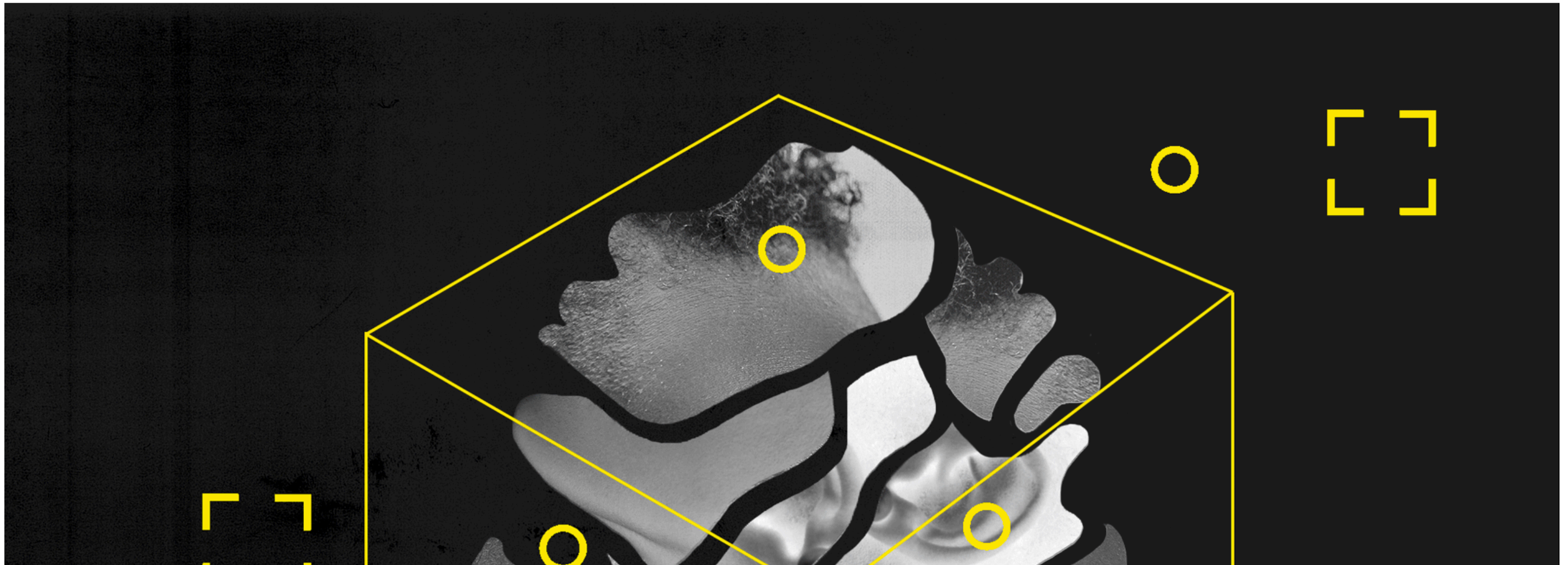
TWITTER

TOM SIMONITE

BUSINESS 07.22.2019 07:00 AM

The Best Algorithms Struggle to Recognize Black Faces Equally

US government tests find even top-performing facial recognition systems misidentify blacks at rates five to 10 times higher than they do whites.

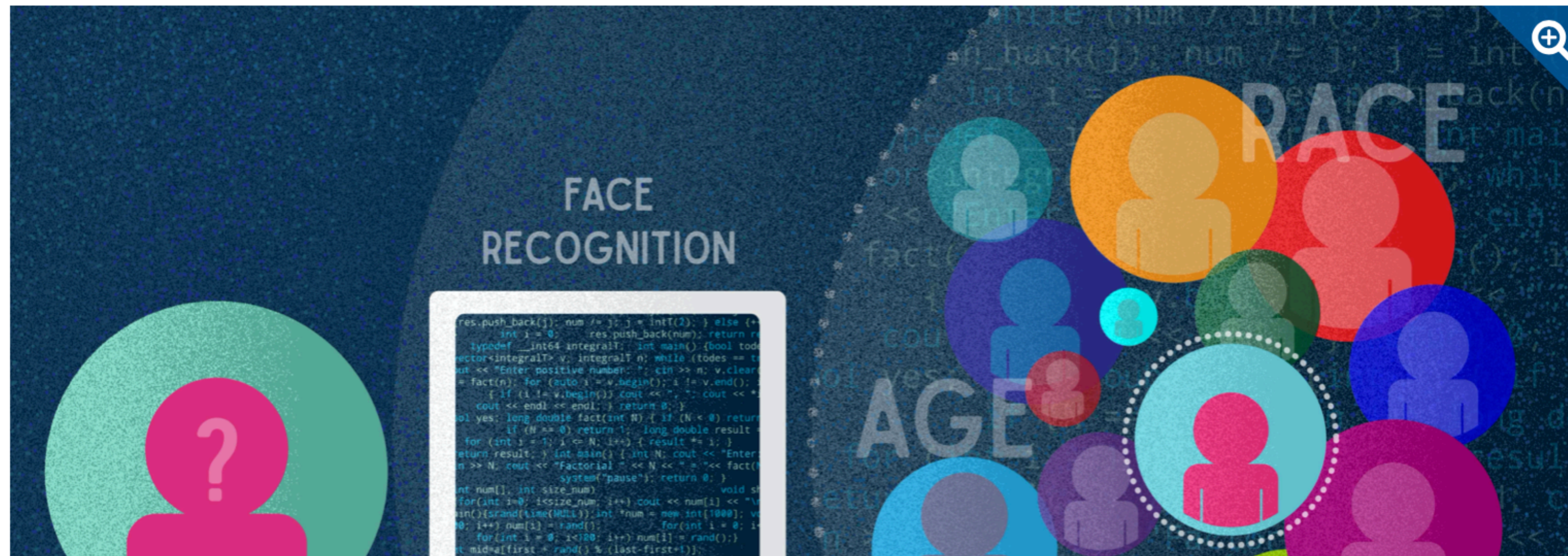


<https://www.wired.com/story/best-algorithms-struggle-recognize-black-faces-equally/>

NIST Study Evaluates Effects of Race, Age, Sex on Face Recognition Software

Demographics study on face recognition algorithms could help improve future tools.

December 19, 2019



MEDIA CONTACT

Chad Boutin
charles.boutin@nist.gov
(301) 975-4261

ORGANIZATIONS

Information Technology Laboratory
Information Access Division

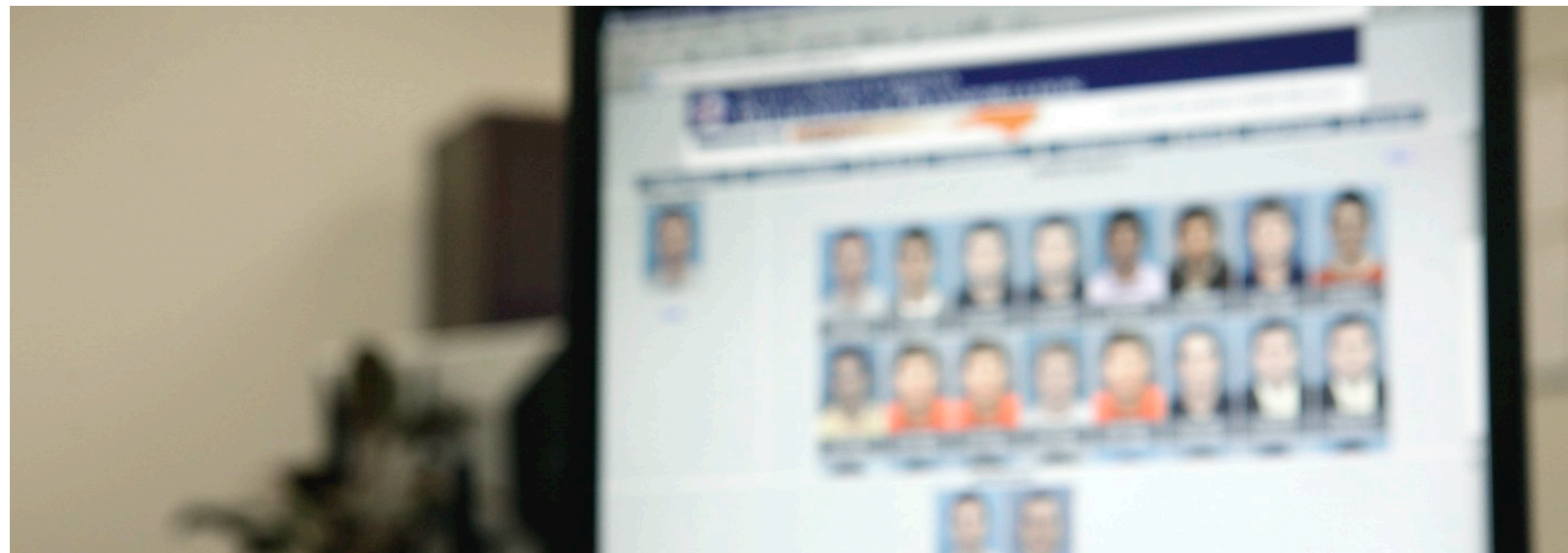
<https://www.nist.gov/news-events/news/2019/12/nist-study-evaluates-effects-race-age-sex-face-recognition-software>

TECHNOLOGY

Facial-Recognition Software Might Have a Racial Bias Problem

Depending on how algorithms are trained, they could be significantly more accurate when identifying white faces than African American ones.

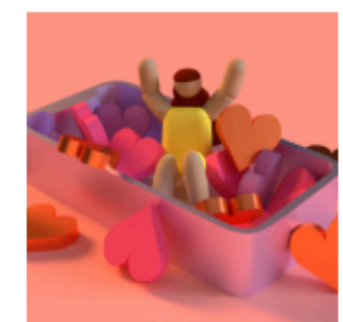
CLARE GARVIE AND JONATHAN FRANKLE APRIL 7, 2016



MORE STORIES

How Quickly Can a Girl Go Viral on TikTok?

KAITLYN TIFFANY



Why Everything Is Sold Out

AMANDA MULL



<https://www.theatlantic.com/technology/archive/2016/04/the-underlying-bias-of-facial-recognition-systems/476991/>

Two People of Note

A portrait of Joy Buolamwini, a Black woman with short dark hair, wearing white-rimmed glasses and a light-colored blazer over a blue top. She is resting her chin on her hand, looking thoughtfully at the camera. The background is a soft, out-of-focus grey.

POET OF CODE

Joy Buolamwini

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*Join the ongoing movement for algorithmic justice and help me create content to support the fight against
the Coded Gaze*

<https://www.poetofcode.com>

The Gender Shades project evaluates the accuracy of AI powered gender classification products.

This evaluation focuses on gender classification as a motivating example to show the need for increased transparency in the performance of any AI products and services that focused on human subjects. Bias in this context is defined as having practical differences in gender classification error rates between groups.



Gender Shades





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RACIAL JUSTICE REQUIRES ALGORITHMIC JUSTICE. SUPPORT THE MOVEMENT.

TECHNOLOGY SHOULD SERVE ALL OF US. NOT JUST THE PRIVILEGED FEW.

Join the Algorithmic Justice League in the movement towards
equitable and accountable AI.

Enter your email

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ADVOCACY

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EDUCATION

PRESS

<https://www.ajl.org>

KADE CROCKFORD



TITLE/POSITION

Director, Technology for Liberty Program

DEPARTMENT

Public Advocacy

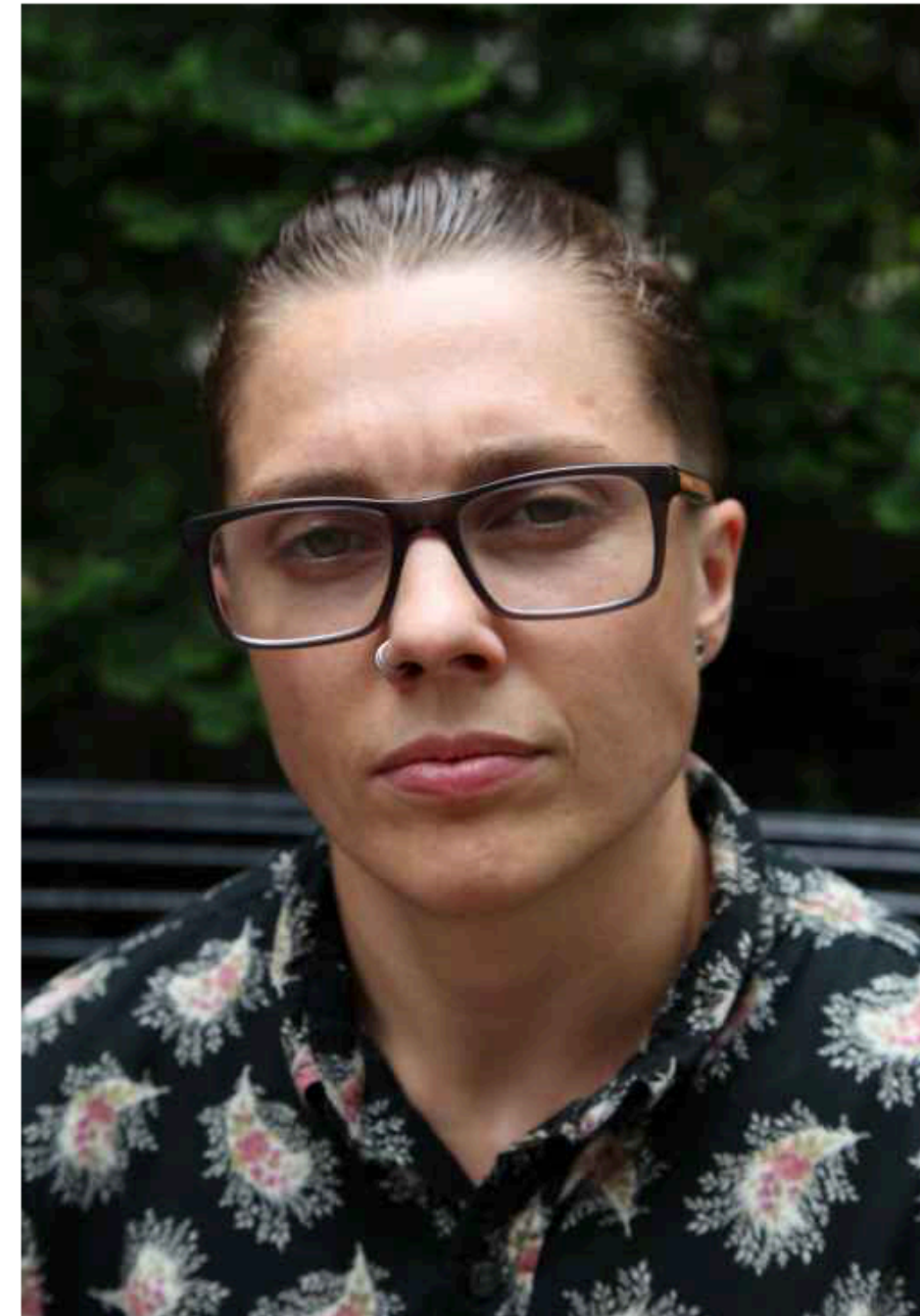
TWITTER HANDLE

[@onekade](#)

E-MAIL ADDRESS

[Contact person by email](#)

Kade Crockford is the Director of the [Technology for Liberty Program](#) at the ACLU of Massachusetts. Kade works to protect and





Why Face Surveillance Must Be Banned

KADE CROCKFORD

Governments across the world are increasingly adopting powerful, often flawed technology, enabling police to track you by your face. Kade Crockford, Director of the Technology for Liberty Program at the ACLU, explains why we can't let that happen if we want to protect our free and

<https://www.tedxcambridge.com/talk/why-face-surveillance-must-be-banned/>

Outcomes & Examples

Clearview AI CEO says 'over 2,400 police agencies' are using its facial recognition software

3

"It's an honor to be at the center of the debate."

By Elizabeth Lopatto | @mslopatto | Aug 26, 2020, 4:40pm EDT



SHARE



VERGE DEALS



Samsung's Galaxy Note 20 is still \$200 off at

Wrongfully Accused by an Algorithm

In what may be the first known case of its kind, a faulty facial recognition match led to a Michigan man's arrest for a crime he did not commit.



<https://www.nytimes.com/2020/06/24/technology/facial-recognition-arrest.html>

Boston bans facial recognition due to concern about racial bias

Khari Johnson

@kharijohnson

June 24, 2020 1:21 PM

AI



<https://venturebeat.com/2020/06/24/boston-bans-facial-recognition-due-to-concern-about-racial-bias/>

IBM CEO’s Letter to Congress on Racial Justice Reform



June 8, 2020

Categorized: [Diversity and Inclusion](#) | [Responsible Stewardship](#)

Share this post:



IBM CEO Arvind Krishna today sent the following letter to Congress outlining detailed policy proposals to advance racial equality in our nation. He also shared, in the context of addressing responsible use of technology by law enforcement, that IBM has sunset its general purpose facial recognition and analysis software products.

###

June 8, 2020

The Honorable Karen Bass
United States House of Representatives
Washington, DC 20515

Recent Posts

- [Digital Trade Principles for the Post-COVID Age](#)
- [A Precision Regulation Approach to Controlling Facial Recognition Technology Exports](#)
- [How to make Europe’s digital transformation responsible and accountable](#)
- [IBM Policy Lab Live: An Economic Recovery Plan For Europe](#)
- [IBM Policy Lab Live: Responsibility in Tech’s Response to the COVID-19 Pandemic](#)

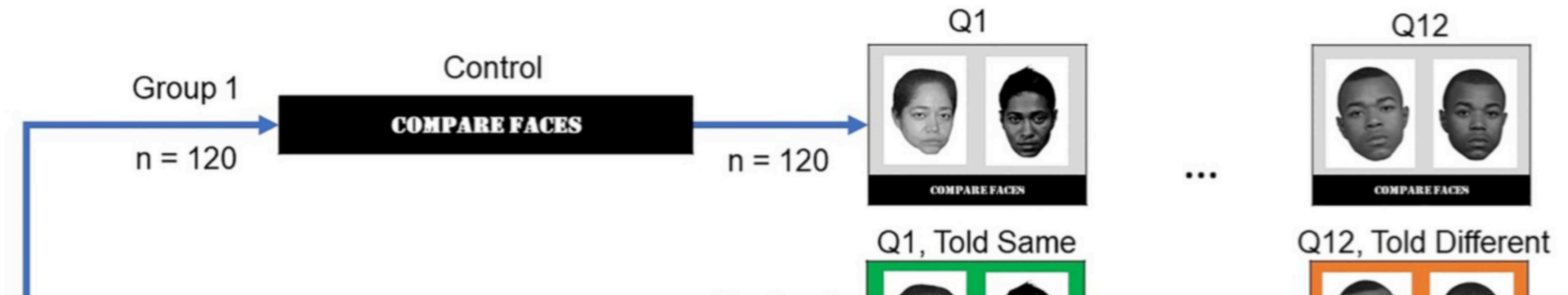
Search this blog

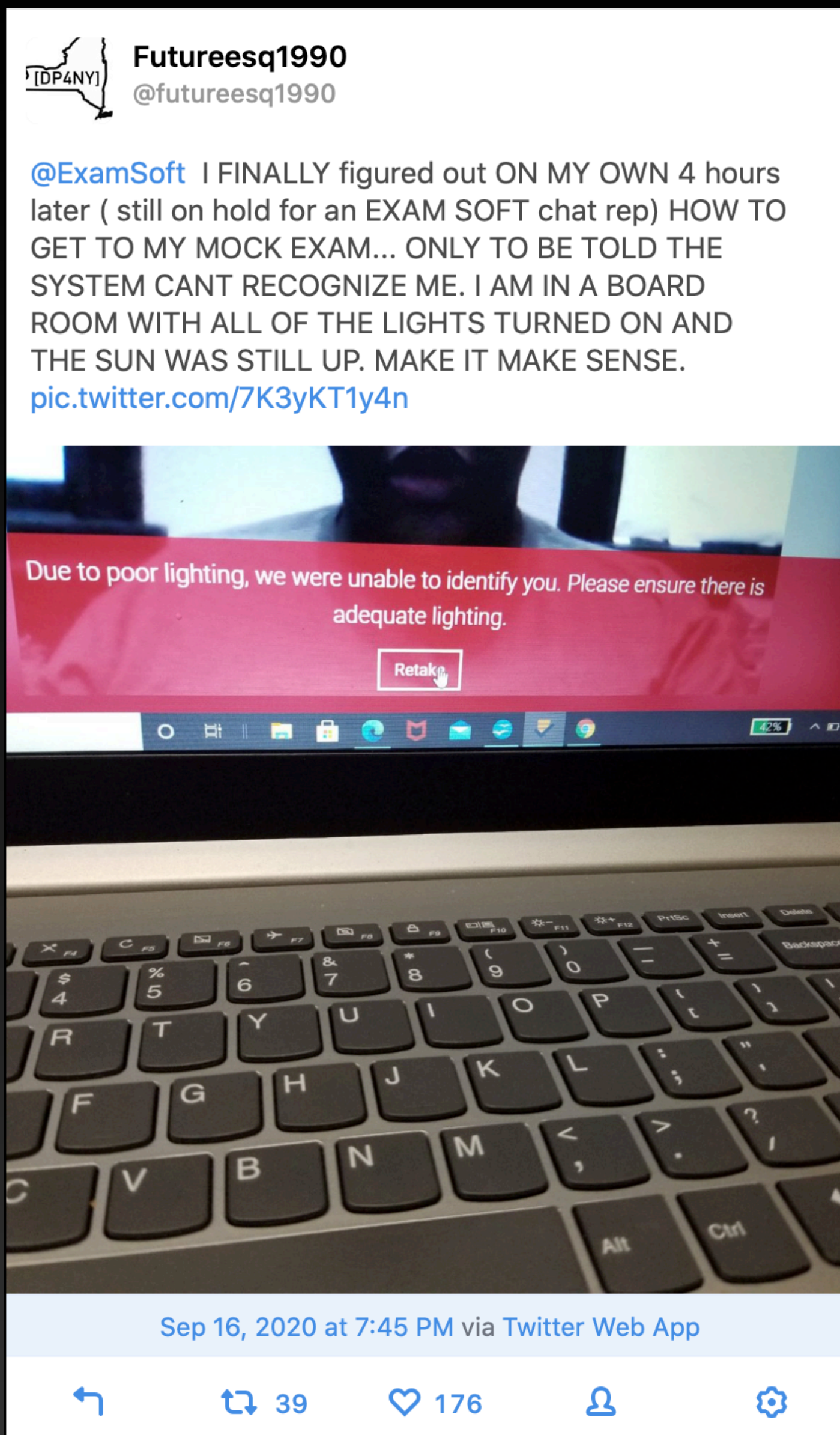
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BIAS ALL THE WAY DOWN: RESEARCH SHOWS DOMINO EFFECT WHEN HUMANS USE FACE RECOGNITION ALGORITHMS

09/22/2020 - [Algorithms](#), [Artificial Intelligence/Machine Learning](#), [Biometrics](#)





<https://twitter.com/futureesq1990/status/1306393725099278336>



<https://twitter.com/uhreeb/status/1303139738065481728>



Colin Madland

@colinmadland

A faculty member has been asking how to stop Zoom from removing his head when he uses a virtual background. We suggested the usual plain background, good lighting etc, but it didn't work. I was in a meeting with him today when I realized why it was happening.

Sep 18, 2020 at 7:18 PM via Twitter Web App



24.1K



55.5K



Colin Madland @colinmadland

5d

Turns out @zoom_us has a crappy face-detection algorithm that erases black faces...and determines that a nice pale globe in the background must be a better face than what should be obvious.



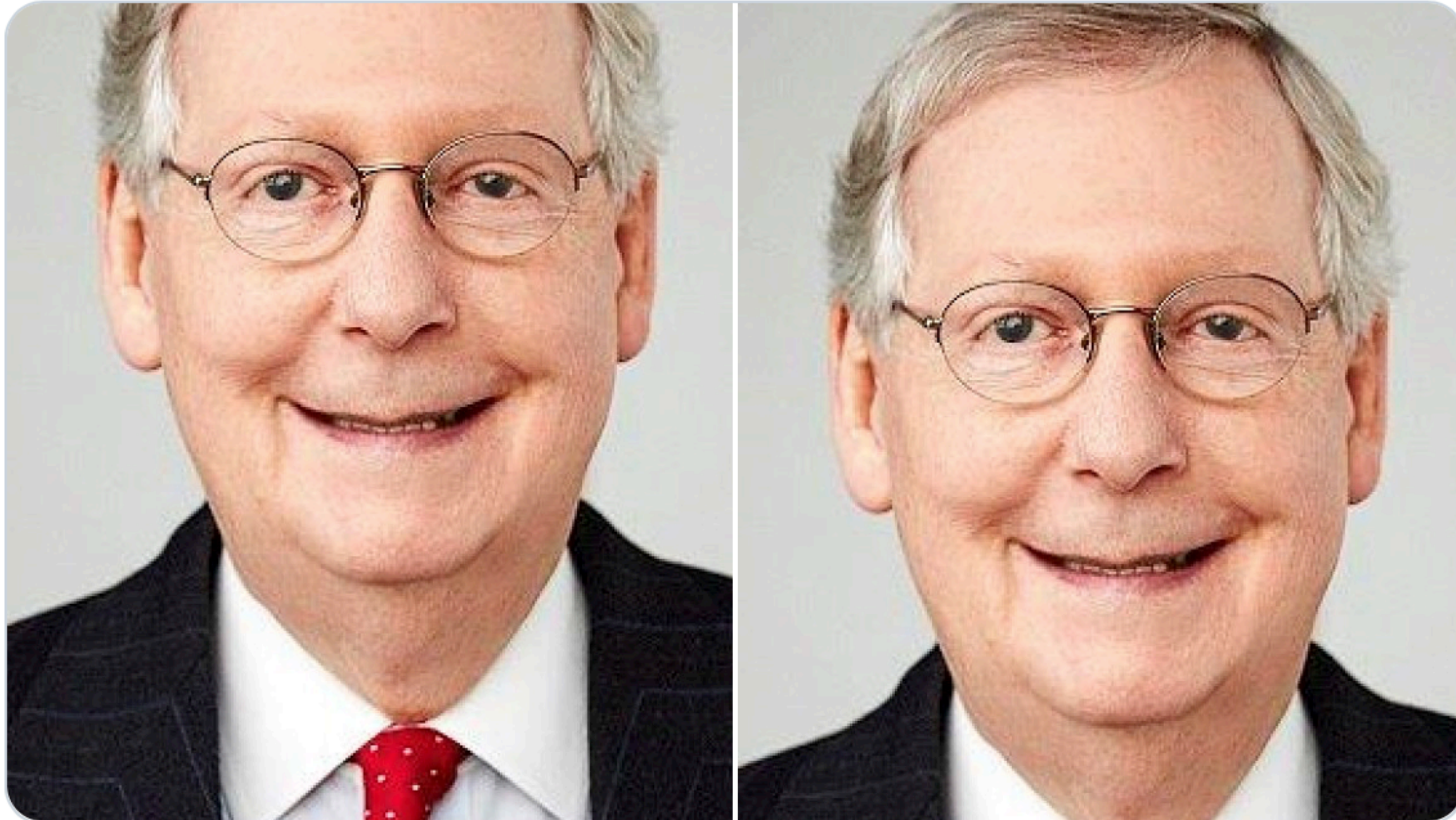
<https://twitter.com/colinmadland/status/1307111816250748933>



Tony "Abolish (Pol)ICE" Arcieri 🦀
@bascule

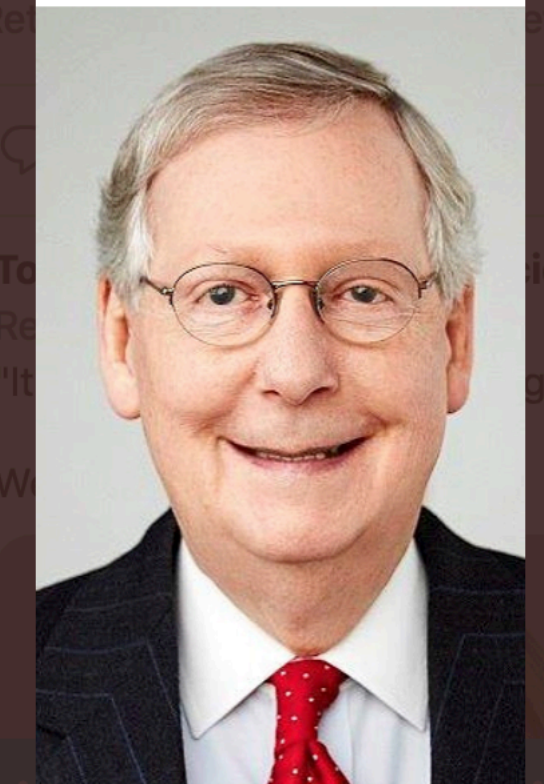
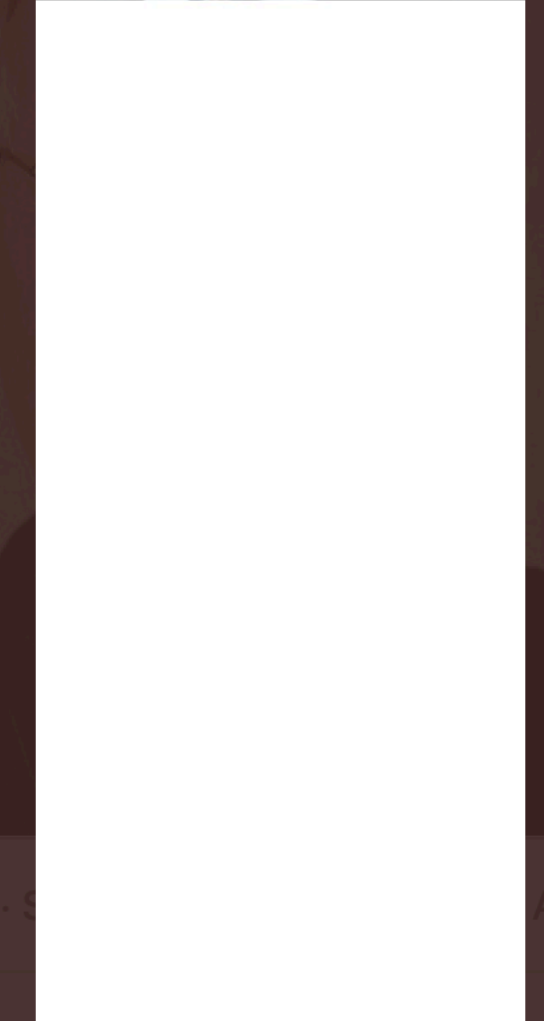
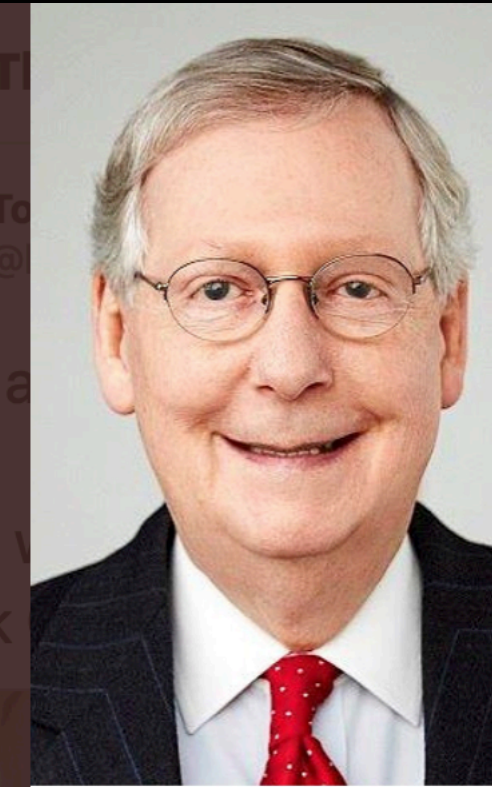
Trying a horrible experiment...

Which will the Twitter algorithm pick: Mitch McConnell or Barack Obama?



5:05 PM · Sep 19, 2020 · Twitter Web App

64.6K Retweets 16.3K Quote Tweets 198.5K Likes



<https://twitter.com/bascule/status/1307440596668182528>



CAMPUS NEWS

COVID-19

NEWS

ZSR pens letter against proctoring services

By Aine Pierre 4 weeks ago

ZSR Librarians Assembly urges university not to use facial recognition proctoring (Photo Credit: Katie Fox/Old Gold & Black)

<http://wfuogb.com/2020/08/zsr-pens-letter-against-proctoring-services/>

A cartoon illustration of a light brown dog with a black patch on its ear, wearing a small orange hat. The dog is sitting on a wooden stool at a round wooden table, holding a white mug of coffee. The dog has a calm expression. The background is a light green wall with a dark grey door and a window. The entire scene is surrounded by large, stylized yellow and orange flames, suggesting a fire. The text "Everything is Fine" is written in a bold, black, sans-serif font in the center of the image.

**Everything
is Fine**

**BLACK
LIVES
MATTER**

82% White :: 5% Black :: 3% Latinx

US demographics - 77% white, 13.4% Black, 18% Latinx

**<http://www.ala.org/tools/research/librarystaffstats/diversity/libdirectors>
[http://www.ala.org/aboutala/sites/ala.org/aboutala/files/content/diversity/diversitycounts/
diversitycountstable2012.pdf](http://www.ala.org/aboutala/sites/ala.org/aboutala/files/content/diversity/diversitycounts/diversitycountstable2012.pdf)**

THE OPEN SOCIETY AND ITS ENEMIES

Vol. I
The Age of Plato

K. R. POPPER

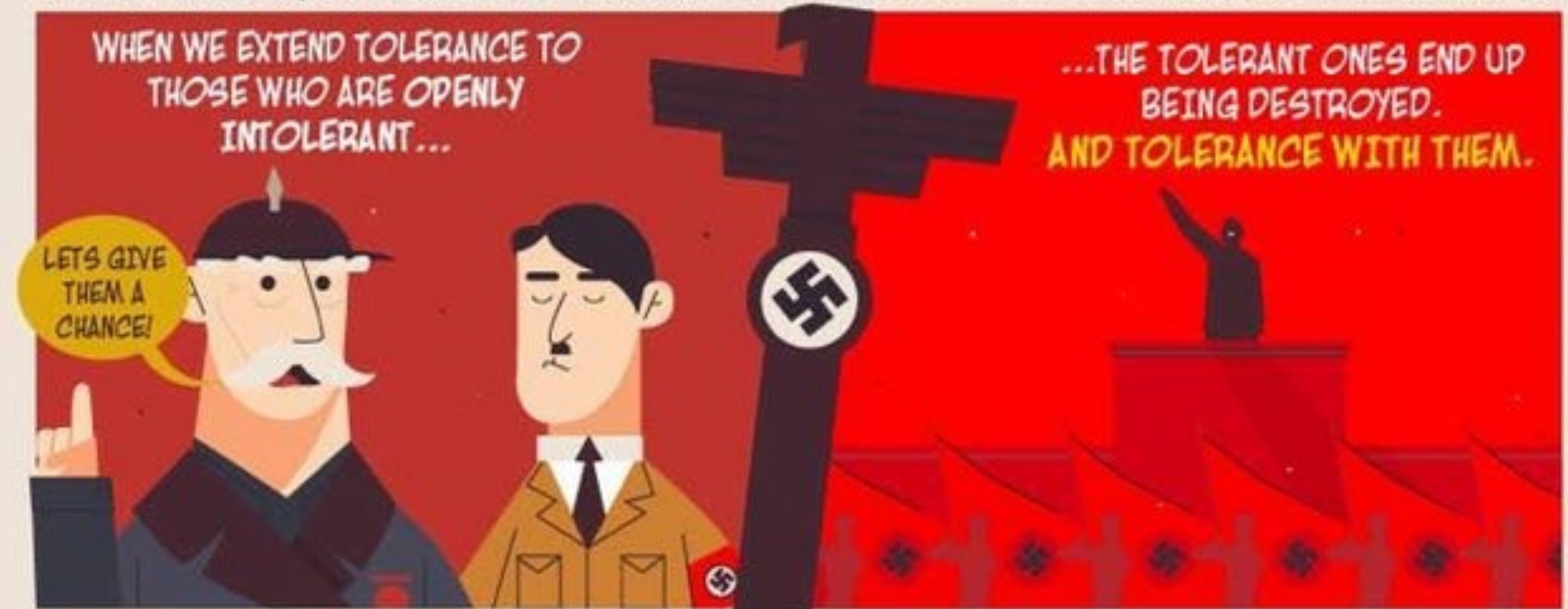
Reader in Logic and Scientific Method in the
University of London

THE PARADOX OF TOLERANCE

BY PHILOSOPHER KARL POPPER*



IT'S A PARADOX, BUT UNLIMITED TOLERANCE CAN LEAD TO THE EXTINCTION OF TOLERANCE.



*Source: *The Open Society and Its Enemies*, Karl R. Popper

PICTOLINE.COM

Ethics





THIS MACHINE
KILLS FASCISTS

Jason Griffey

Director of
Strategic Initiatives
NISO

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griffey@gmail.com

[@griffey](#)

<http://jasongriffey.net>



Suggested Reading

- Situating Methods in the Magic of Big Data and Artificial Intelligence*** by M.C. Elish and danah boyd
- Algorithms of Oppression: How Search Engines Reinforce Racism*** by Safiya Noble
- ARTIFICIAL UNINTELLIGENCE: How Computers Misunderstand the World*** by Meredith Broussard
- Race After Technology: Abolitionist Tools for the New Jim Code*** by Ruha Benjamin
- Automating Inequality: How High-Tech Tools Profile, Police, and Punish the Poor*** by Virginia Eubanks
- Weapons of Math Destruction*** by Cathy O'Neil
- The Intersectional Internet: Race, Sex, Class, and Culture Online*** by Safiya Noble, Brendesha M. Tynes
- Technically Wrong: Sexist Apps, Biased Algorithms, and Other Threats of Toxic Tech*** by Sara Wachter-Boettcher
- Data Feminism*** by Catherine D'Ignazio and Lauren F. Klein
- So You Want to Talk About Race*** by Ijeoma Oluo
- Design Justice: Community-Led Practices to Build the Worlds We Need*** by Sasha Costanza-Chock