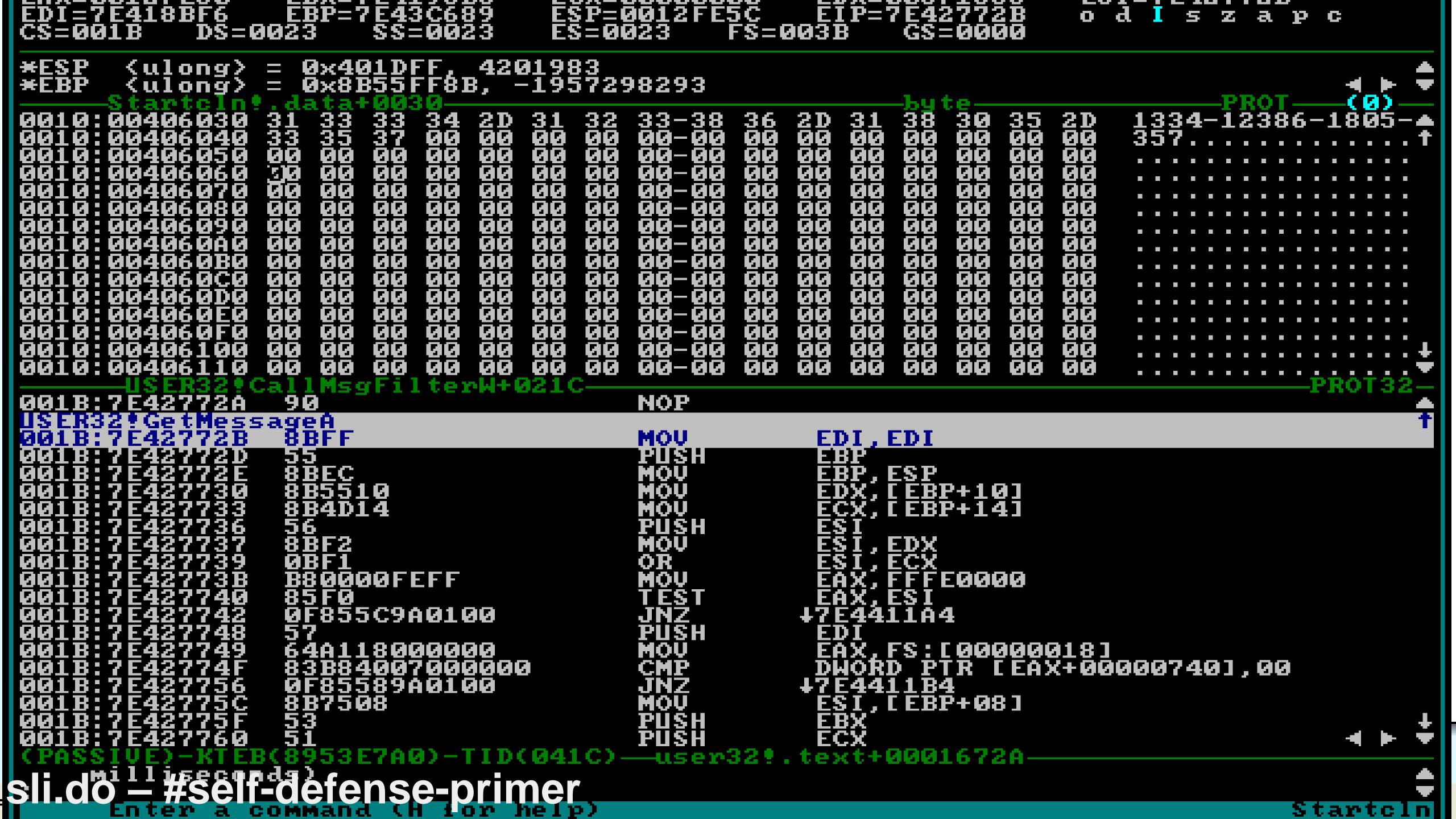
Julien Cornebise, Ph.D. 2020-12-18 ML Collective / DL Classics and Trends

AI FOR GOOD AND ETHICS-WASHING A SELF-DEFENSE PRIMER





We have the following limits, as $N \to \infty$.

Theorem

Asymptotic behavior of KLD-based criterion:

$$\left| d_{\mathrm{KL}}(\mu_N^{\mathrm{aux}} || \pi_N^{\mathrm{aux}}) - \mathcal{E}(\{\tilde{\omega}_{N,i}\}_{i=1}^{\tilde{M}_N}) \right| \stackrel{\mathbb{P}}{\longrightarrow} 0.$$

In addition,

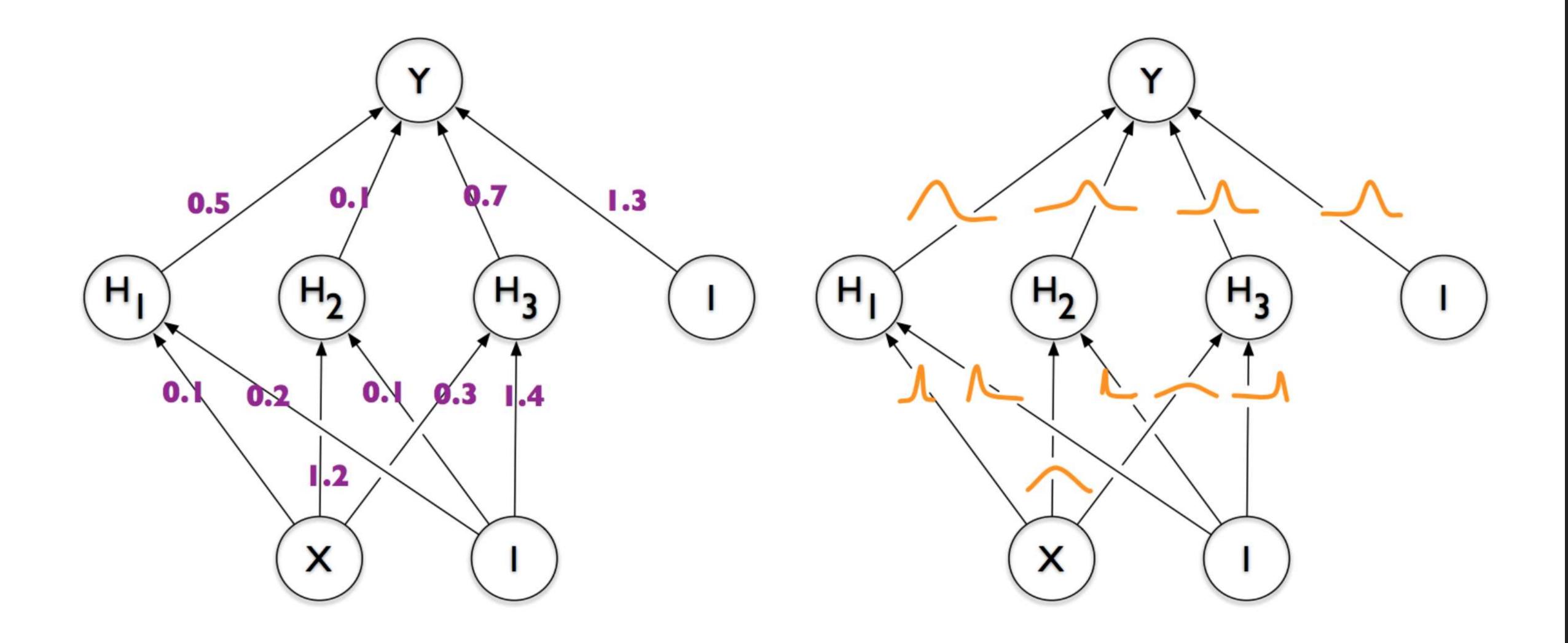
$$d_{\mathrm{KL}}(\mu_{N}^{\mathrm{aux}}||\pi_{N}^{\mathrm{aux}}) \xrightarrow{\mathbb{P}} \eta_{\mathrm{KL}}(\Psi) \triangleq \frac{\nu \otimes L}{\nu L(\tilde{\Xi})} \{ \log[\Phi \frac{\nu(\Psi)}{\nu L(\tilde{\Xi})}] \} ,$$

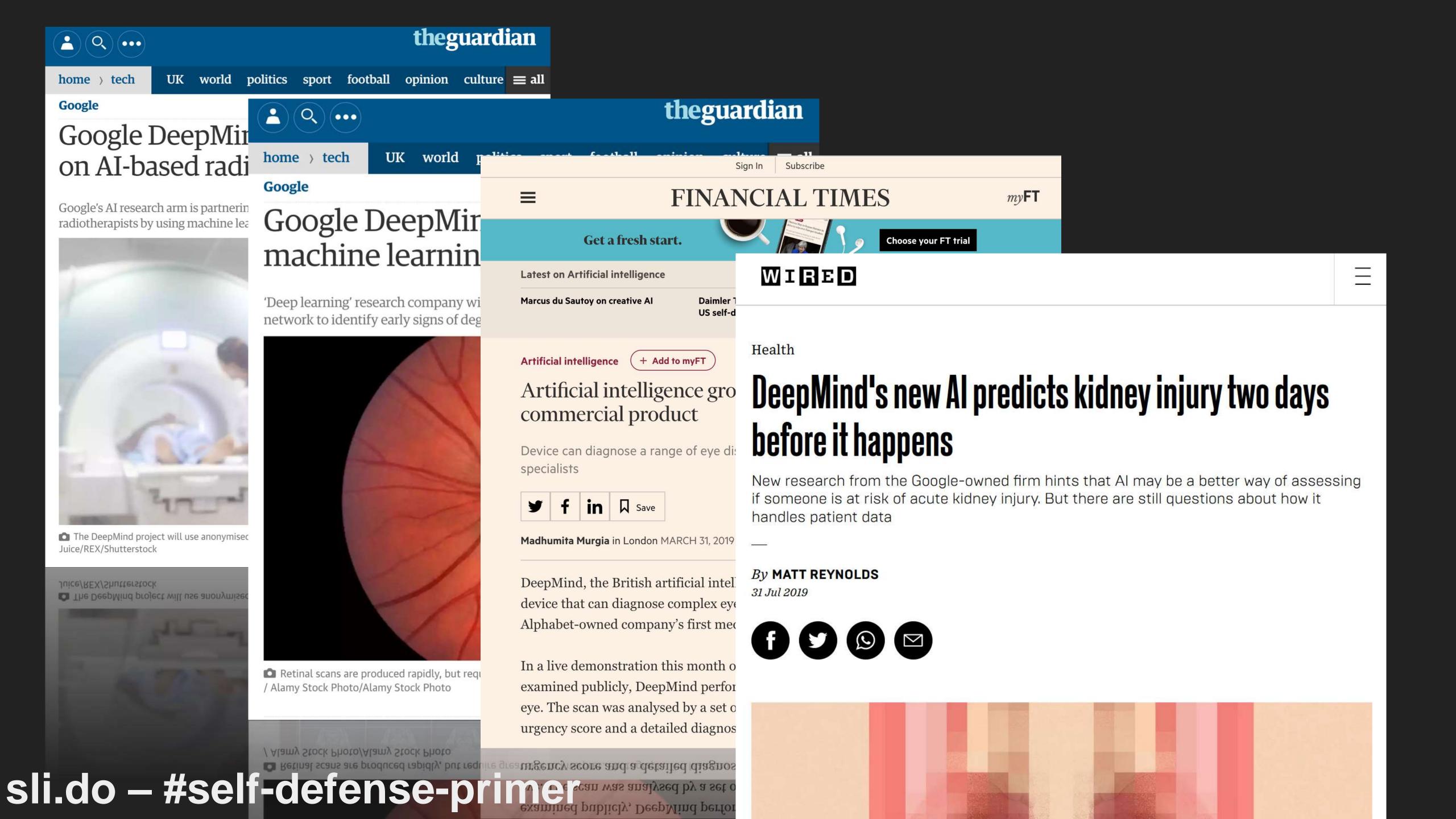
Asymptotic behavior of CSD-based criterion:

$$\left| d_{\chi^2}(\mu_N^{\text{aux}} || \pi_N^{\text{aux}}) - \text{CV}^2(\{\tilde{\omega}_{N,i}\}_{i=1}^{\tilde{M}_N}) \right| \stackrel{\mathbb{P}}{\longrightarrow} 0.$$

In addition,

$$d_{\chi^2}(\mu_N^{\text{aux}}||\pi_N^{\text{aux}}) \xrightarrow{\mathbb{P}} \eta_{\chi^2}(\Psi) \triangleq \frac{\nu(\Psi)}{\nu L(\tilde{\Xi})} \times \frac{\nu \otimes L}{\nu L(\tilde{\Xi})}(\Phi) - 1.$$





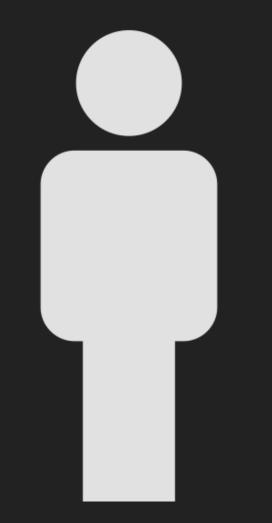




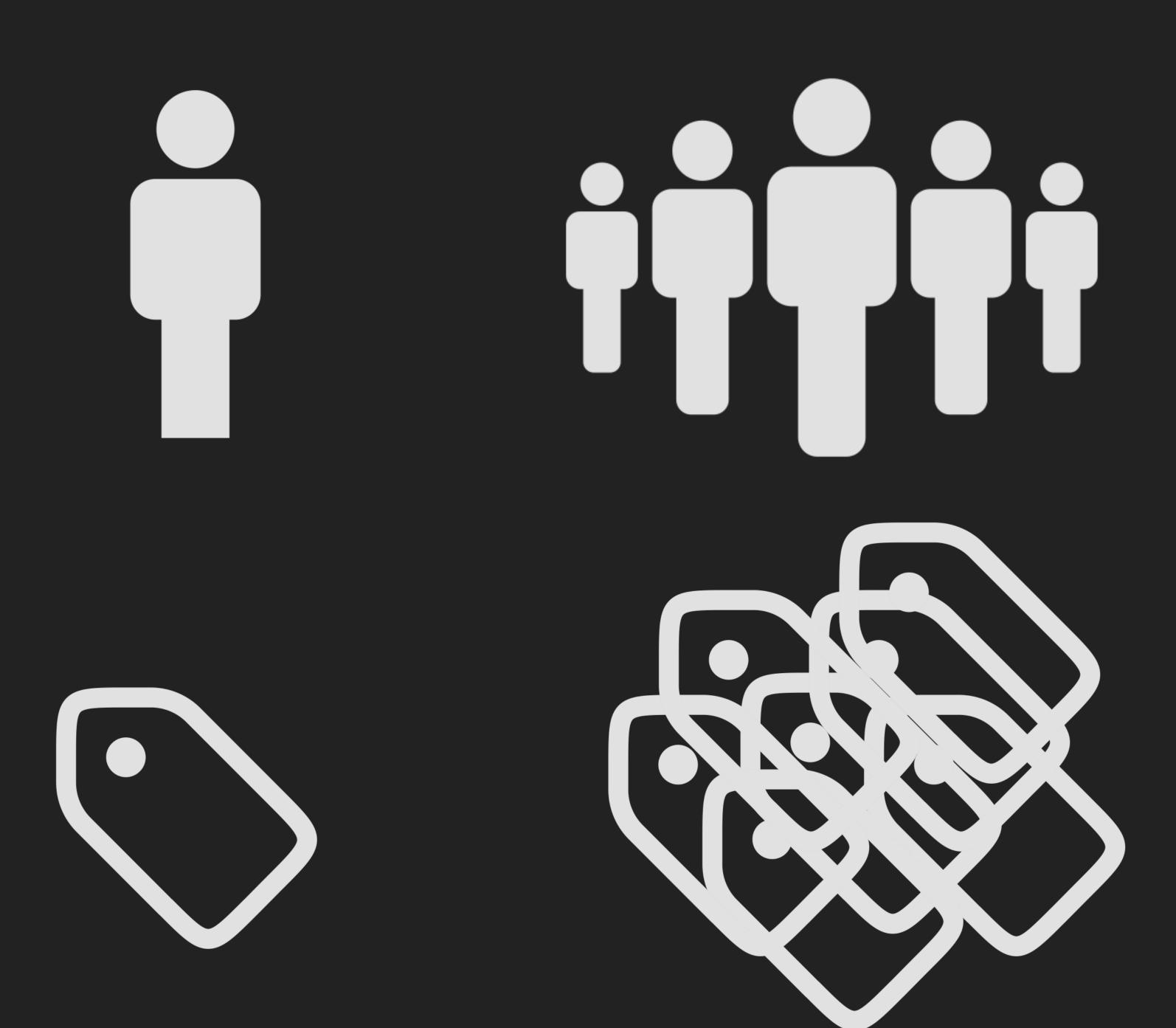


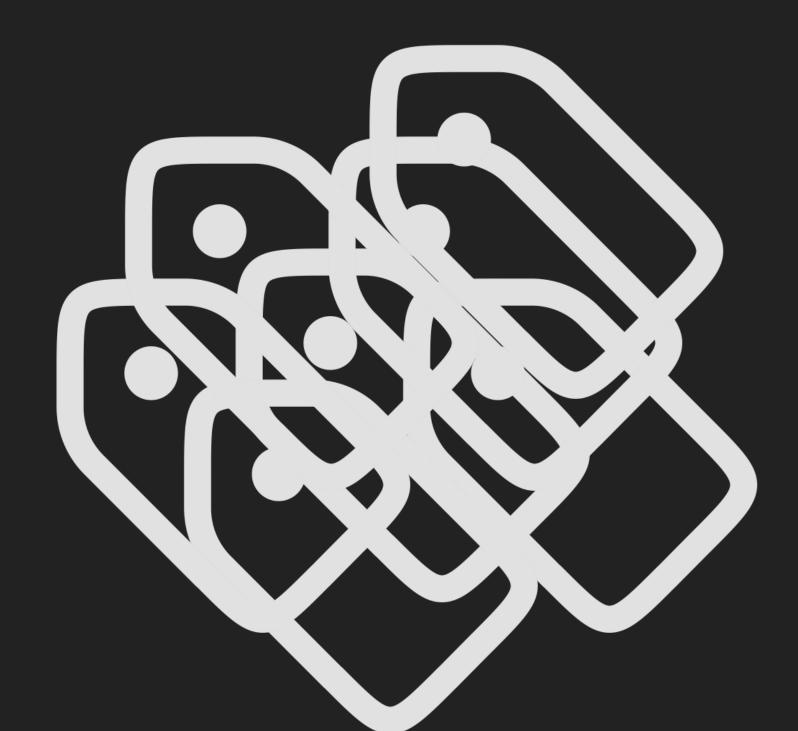
DECODE DARFUR

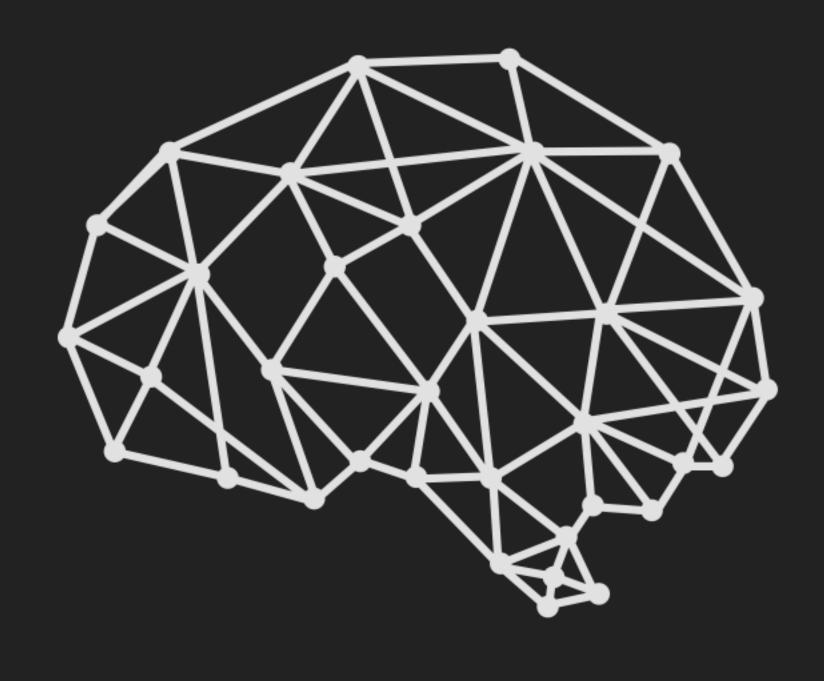














Well done! You

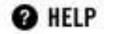
FORUM

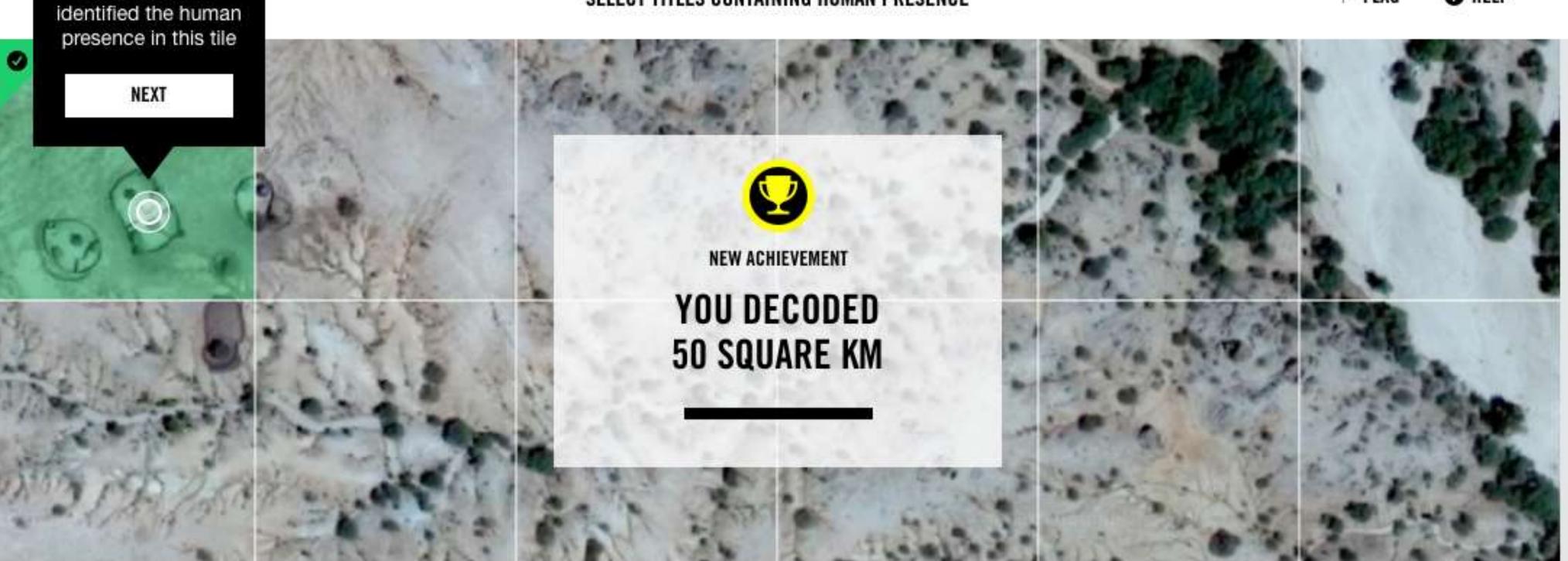
ACCOUNT

@GMAIL.COM ▼



FLAG



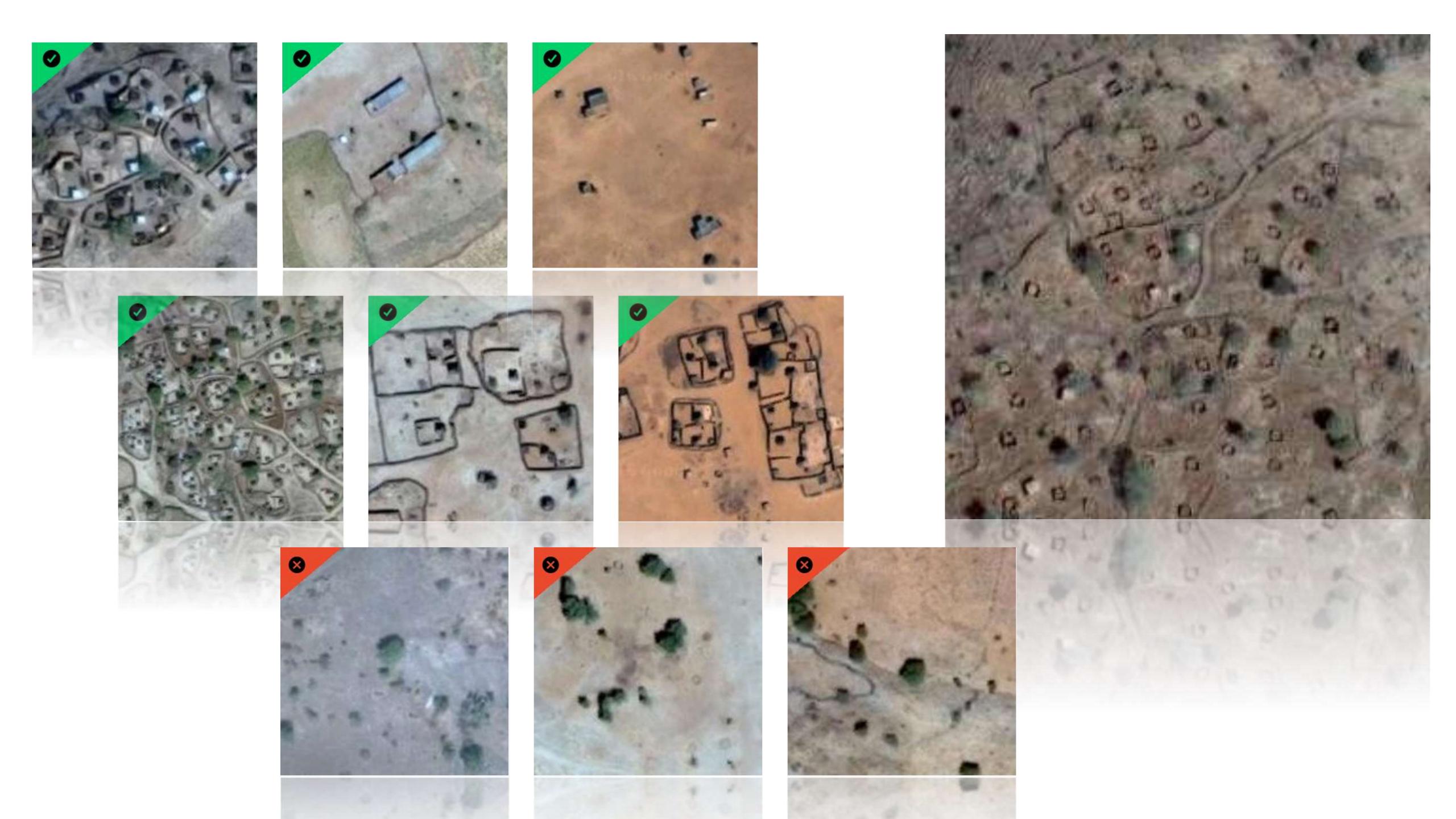


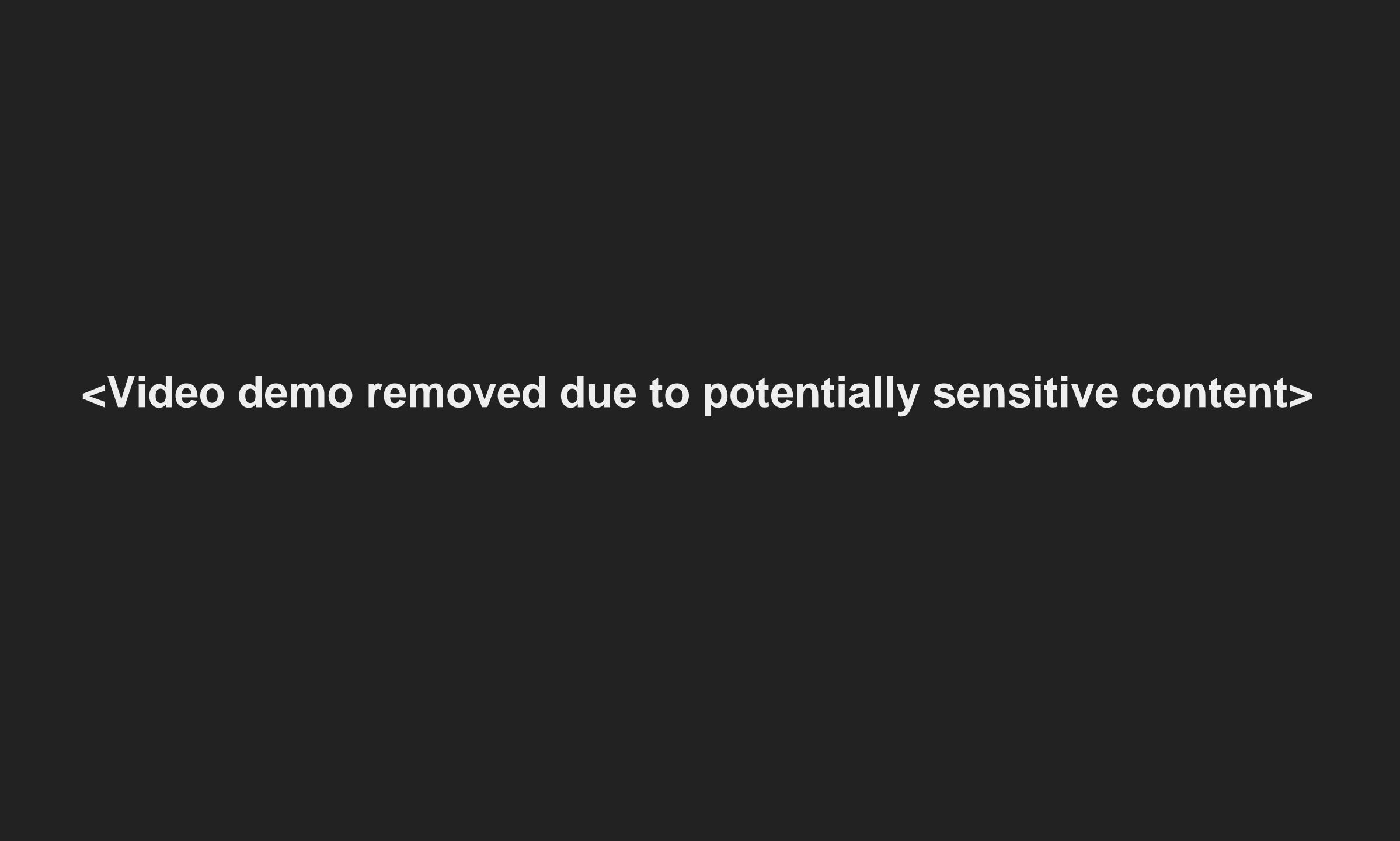
$continue \rightarrow$

25 SQUARE KM THIS SESSION

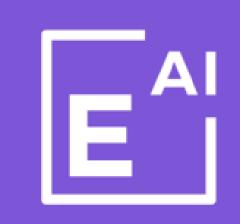
SQUARE KM ALL SESSIONS

1659 SQUARE KM ALL VOLUNTEERS











@alkalait



@laure_delisle



@milena_iul



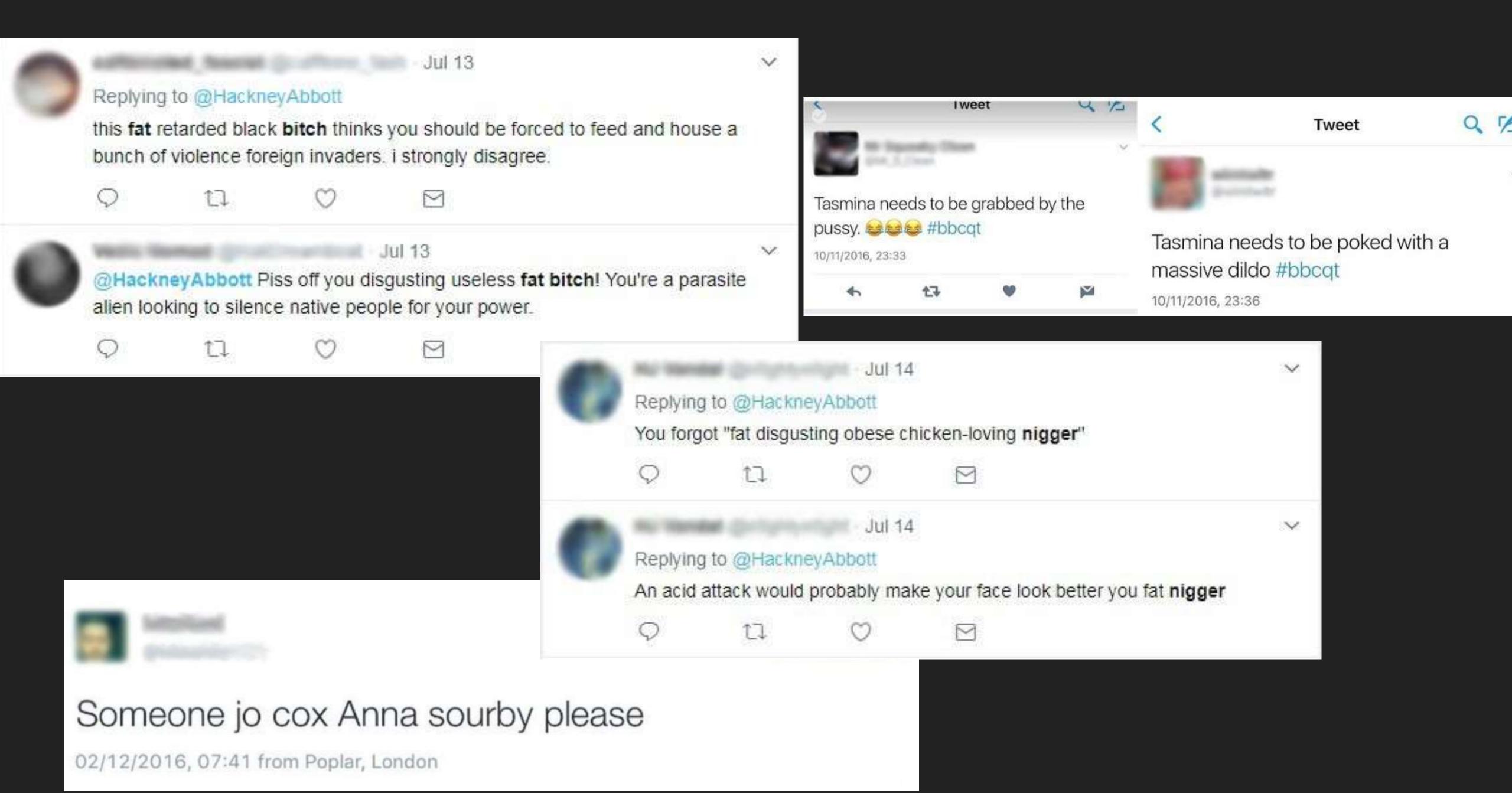




@ArchydeB

2018 @SnazzyAzzy @sherifea TROLL PATROL: STUDYING ABUSE AGAINST WOMEN ON TWITTER

TRIGGER



STUDY: ML TO HUMANS TO ML TO HUMANS

- Build a dataset with ML prefilter
- Importance sampling to
 - reduce variance
 - drive engagement
- Human Crowdsourcing
- Data Analysis with Bootstrap
- Train Deep model and benchmark
- Carefully and expertly report and go public!
 - Very sensitive topic, human rights expertise!



Welcome to the findings of our Troll Patrol project: a joint effort by human rights researchers, technical experts and thousands of online volunteers to build the world's largest crowd-sourced dataset of online abuse against women.

Our findings reveal the sheer scale and nature of online abuse faced by women and provides a resource to researchers and engineers interested in exploring the potential of machine learning in content moderation.

These findings are the result of a collaboration between Amnesty International and **Element AI**, a global artificial intelligence software product company. Together, we surveyed millions of tweets received by

Bloomberg

Technology

Twitter Is 'Toxic Place for Women,' Says Amnesty International

Together with Element AI, the human rights watchdog quantified what women on Twitter have known for a long time

 \equiv TIME

WORLD . SOCIAL MEDIA

'A Toxic Place for Women.' A New Study Reveals the Scale of Abuse on Twitter

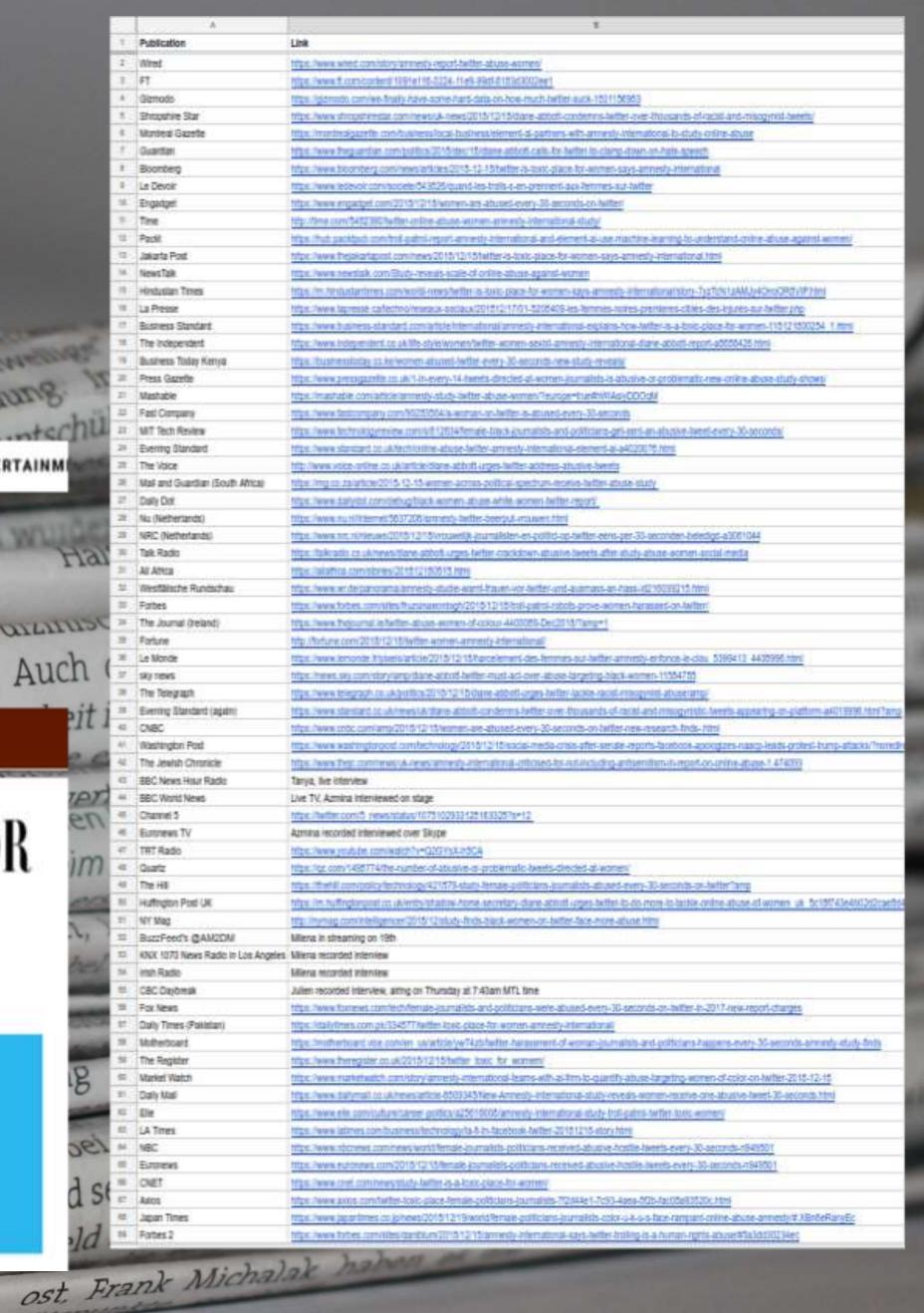
MIT Technology Review

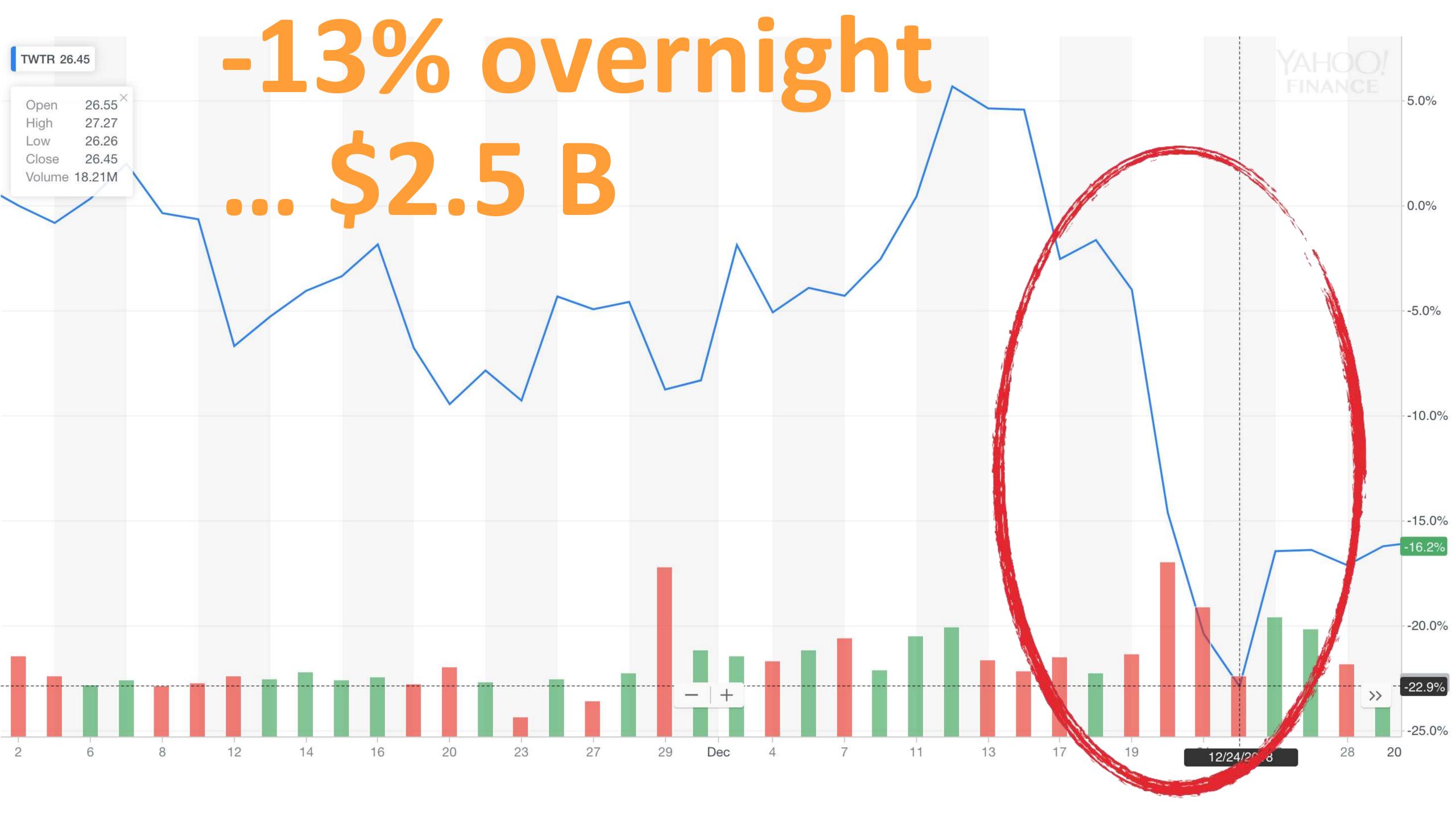
Topics

Intelligent Machines

Female black journalists and politicians get sent an abusive tweet every 30 seconds











"TECHNOLOGY - NO MATTER HOW WELL DESIGNED - IS ONLY A MAGNIFIER OF HUMAN INTENT AND CAPACITY."

Kentaro Toyama (2015)

FROM THE CULT OF TECHNOLOGY

KENTARO TOYAMA

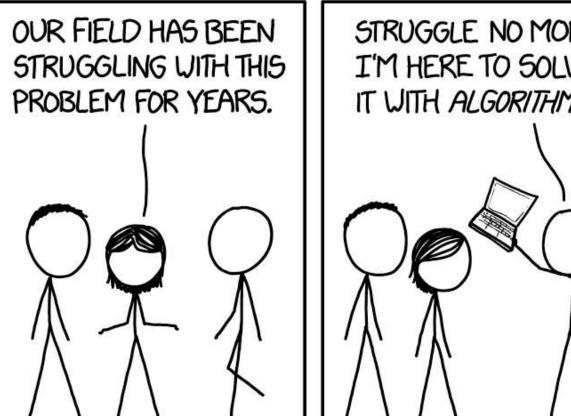
KENTARO TOYAMA

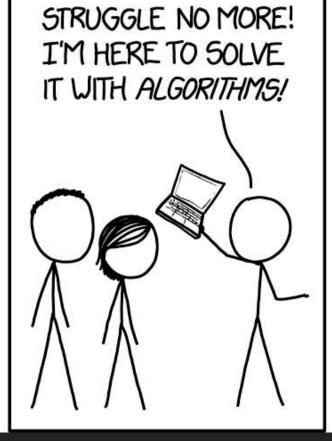
RESCUING SOCIAL CHANGE FROM THE CULT OF TECHNOLOGY

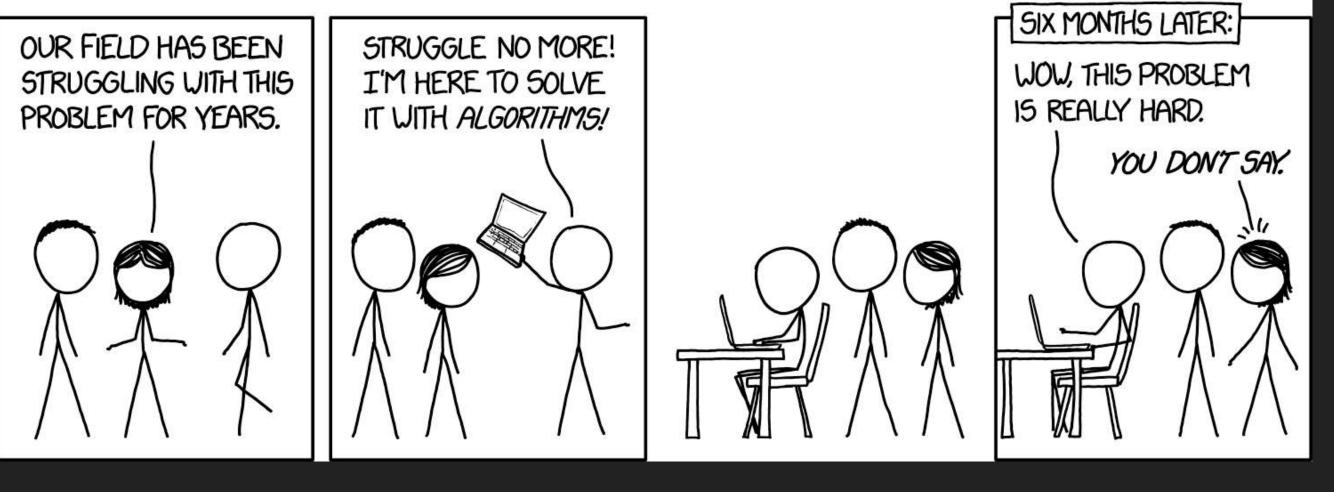
GEK HERESY



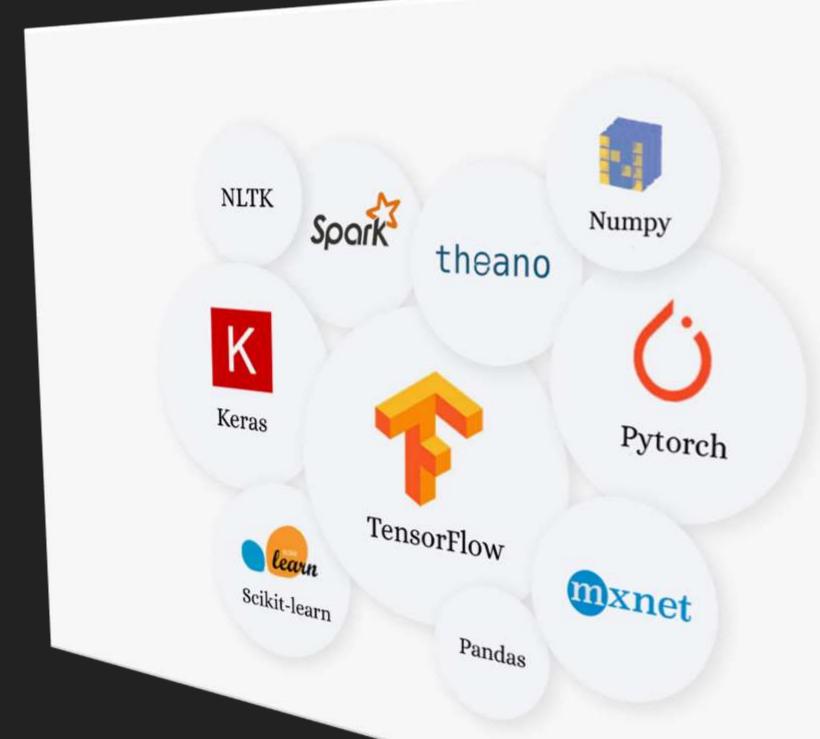






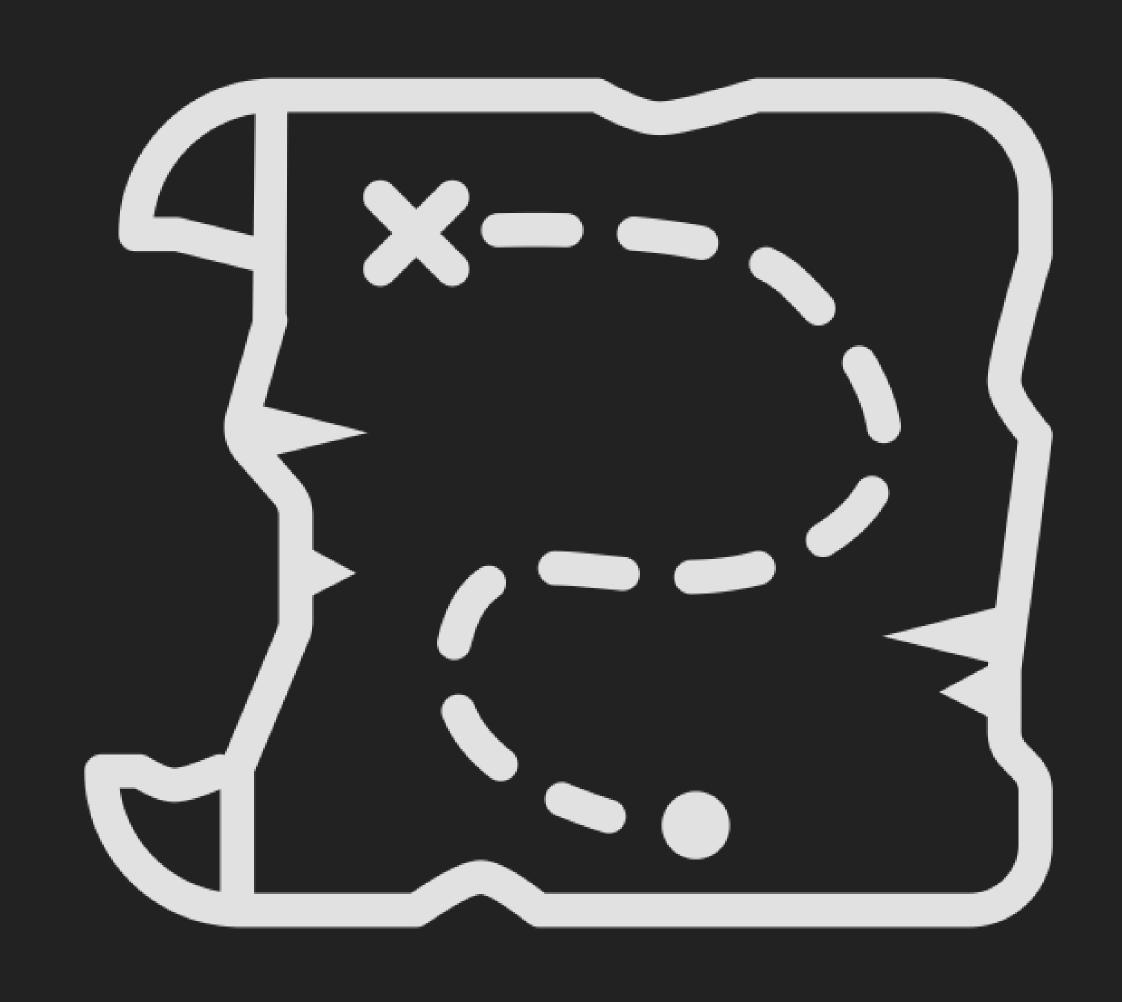












Zuckerberg Takes Steps to Calm Facebook Employees

Mark Zucker

week for his

Jim Wilson/The

By Sheera

March 23, 20

SAN FRA

grappled

Facebool

another 1

Industry Voice Data Strategy Spotlight

rtificial Intelligence Internet of Things Open Source

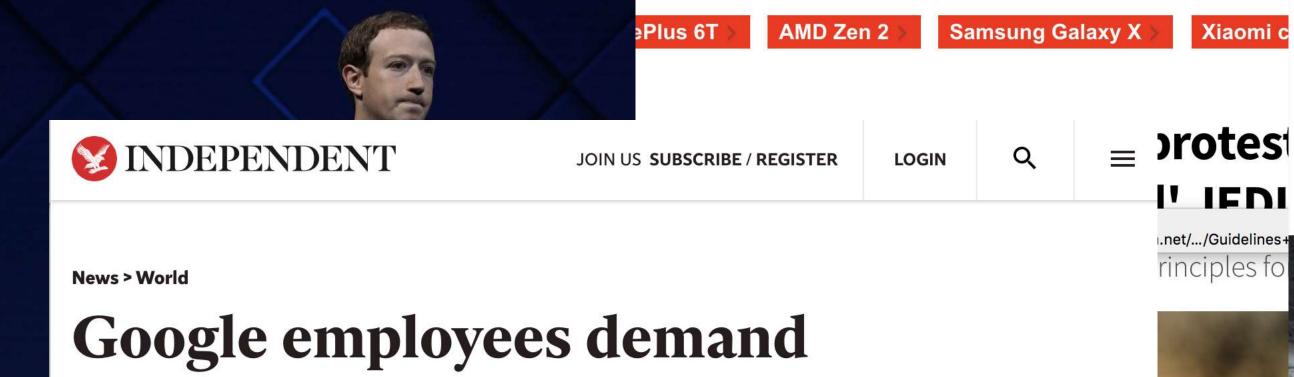
the INQUIE ED

FORTUNE

SUBSCRIBE

PROJECT MAVEN

Report: Google Employees Resigning Over Controversial Pentagon Contract



Google employees demand transparency over secret work on censored search engine for China

Staff worry they have been unknowingly working on project 'Dragonfly' to develop technology helping Chinese government withhold information from citizens

Kate Conger and Daisuke Wakabayashi | Friday 17 August 2018 09:55 | 2 comments

rinciples fo Googl Accord

's Joint Enterp

A nui

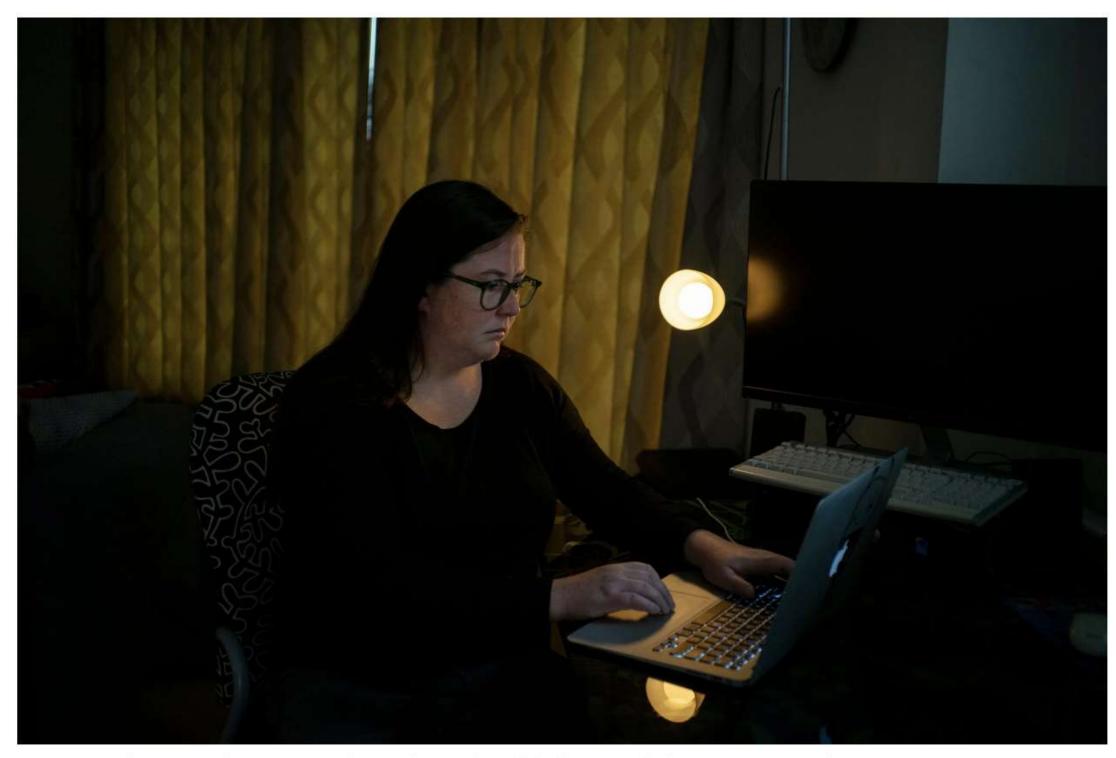


Thousands of employees from Tokyo to California stage demonstrations targeting workplace culture



The New York Times

Tech Workers Now Want to Know: What Are We Building This For?



Laura Nolan, a software engineer in Ireland, left Google in June over the company's involvement in Project Maven, an effort to build artificial intelligence for the Department of Defense. Paulo Nunes dos Santos for The New York Times

By Kate Conger and Cade Metz

Oct. 7, 2018

 \wedge



n **Sport Culture Lifestyle** More~

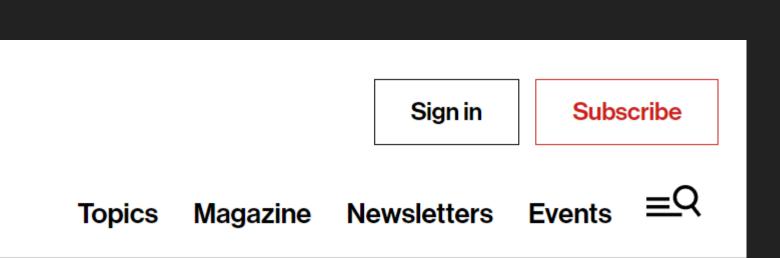
ment Science Global development Football Tech Business Obituaries

Google workers demand reinstatement and apology for fired Black AI ethics researcher

Timnit Gebru's departure sparked outrage in the industry as it followed her paper criticizing the company's diversity efforts







Ousted Black Google Researcher: 'They

Wanted To Have My Presence, But Not

Me Exactly'

December 17, 2020 - 8:28 PM ET

BOBBY ALLYN

Tech policy / Al Ethics

Congress wants answers from Google about Timnit Gebru's firing

The letter, signed by nine members of Congress, sends an important signal about how regulators will scrutinize tech giants.

by **Karen Hao**

December 17, 2020





ANALYSE YOUR ORG

