

BAD PEOPLE, BAD COMPUTERS

by *@tcburning*



THROWBACK.CS

101

```
number = random.randint(1, 10)
guess = int(input('Guess a number 1-10. If you are right, you win a million bucks: '))
if (guess == number):
    print("Omg, you win a million bucks! Ask someone in the audience for it.")
else
    print("Awkward...")
```

Guess a number 1-10. If you are right, you win a million bucks:

20

ERROR!

```
if (guess > 10 or guess < 1):  
    print("Make sure your guess is between 1 and 10, inclusive")  
elif (guess == number):  
    print("Omg, you win a million bucks! Ask someone in the audience for it.")  
else  
    print("Awkward...")
```

Guess a number 1-10. If you are right, you win a million bucks:

two

ERROR!

```
while True:  
    try:  
        guess = int(input('Guess a number 1-10. If you\'re right, you win a million bucks: '))  
        break  
    except NameError:  
        print("Oops! Make sure you enter a number, not a word.")
```

???

ERROR!

What if:

- ▶ Someone can't see the screen?
- ▶ Someone can only count to five?
- ▶ Someone doesn't know how to interact with a computer?



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Microsoft's new AI-powered bot Tay answers your tweets and chats on GroupMe and Kik

Posted Mar 23, 2016 by [Sarah Perez \(@sarahintampa\)](#)



When tech and politics combine | Bullish
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Giphy is getting into the sticker business with 12 artist-created iMessage

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Microsoft

FOUNDED
1974

OVERVIEW
Microsoft is an American multinational technology company that develops, manufactures, licenses,



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TL;DR MICROSOFT WEB

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Microsoft silences its new A.I. bot Tay, after Twitter users teach it racism [Updated]

Posted Mar 24, 2016 by Sarah Perez (@sarahintampa)



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Microsoft

FOUNDED
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OVERVIEW
Microsoft is an American multinational corporation that develops, manufactures, licenses, supports, and sells computer software, consumer electronics, and personal computers.



NOW TRENDING



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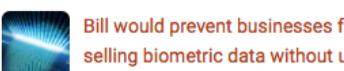
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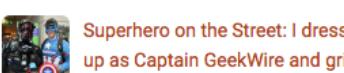
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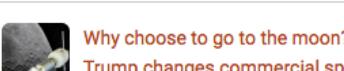
Bill would prevent businesses from selling biometric data without user consent



Superhero on the Street: I dressed up as Captain GeekWire and grilled the cosplayers at Comicon



GeekWire Deals: Finally, watch Netflix, Hulu, HBO, and more—offline—with PlayOn



Why choose to go to the moon? Trump changes commercial space calculations

Microsoft's chatbot gone bad, Tay, makes MIT's annual list of biggest technology fails

BY ALAN BOYLE on December 27, 2016 at 1:56 pm

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BOT or NOT? This [special series](#) explores the evolving relationship between humans and machines, examining the ways that robots, artificial intelligence and automation are impacting our work and lives.

Tay, the Microsoft chatbot that pranksters trained to spew racist comments, has joined the likes of the Apple Watch and the fire-prone Samsung Galaxy Note 7 smartphone

Tay

≡

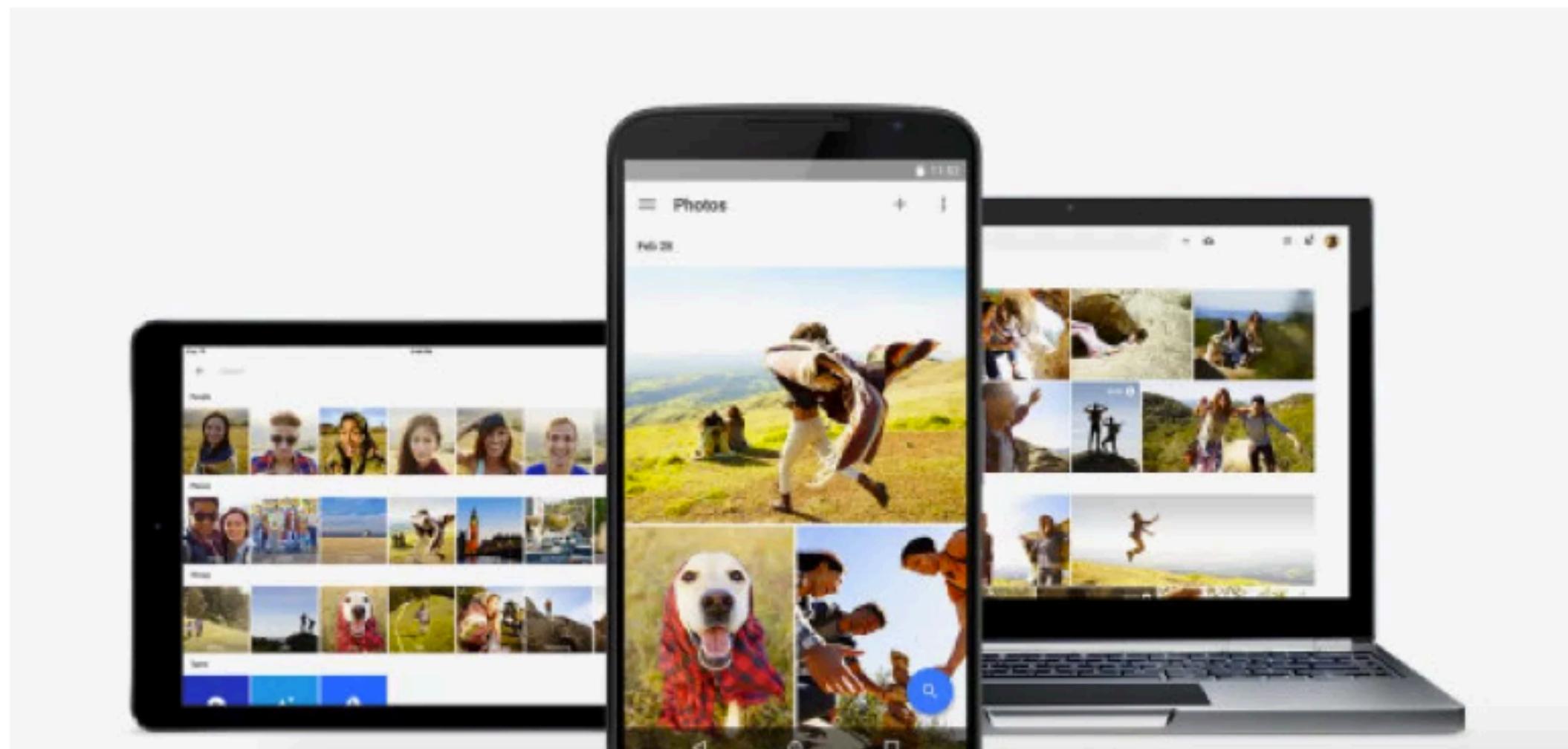
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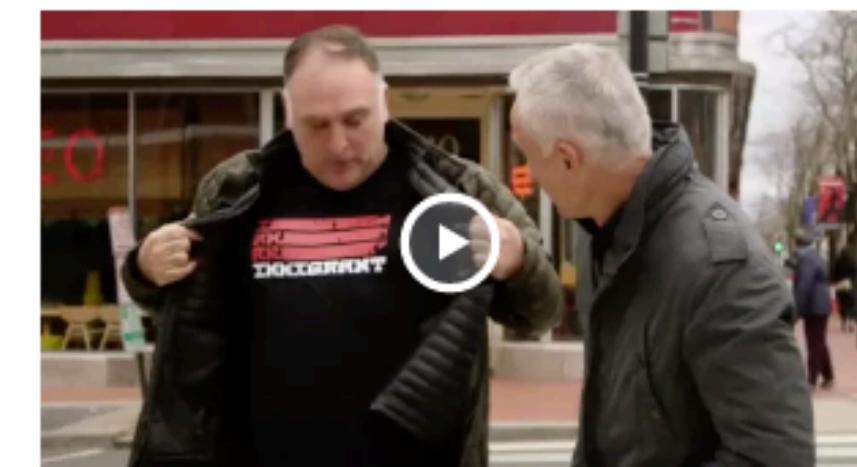
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6/4/15 8 AM

The new Google Photos app is disturbingly good at data-mining your photos



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Google Scrambles After Software IDs Photo of Two Black People as "Gorillas"

By Jacob Brogan

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Google Photos labeled black people 'gorillas'

Jessica Guynn, USA TODAY Published 1:15 p.m. ET July 1, 2015 | Updated 2:10 p.m. ET July 1, 2015

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(Photo: Jeff Chiu, Associated Press)

SAN FRANCISCO — Google has apologized after its new Photos application identified black people as "gorillas."

On Sunday Brooklyn programmer Jacky Alciné tweeted a screenshot of photos he had uploaded in which the app had labeled Alciné and a friend, both African American, "gorillas."

POPULAR STORIES



Lesbian-Wedding Video Among LGBTQ Content Blocked by YouTube Restricted Mode

By Madison Malone Kircher

March 20, 2017
12:40 p.m.

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Photo: Marko Pekic/Getty Images/iStockphoto

has also been removing content with LGBTQ themes for users with Restricted Mode enabled. The problem was first spotted by Gizmodo, who

YouTube's "Restricted Mode" is supposed to offer users a safer experience on the video platform, by using different signals — like age restrictions and videos that have been flagged by other users — to "filter out potentially inappropriate content." It's engineered, according to YouTube's parent company, Google, to "screen out potentially objectionable content that you may prefer not to see or don't want others in your family to see on YouTube." Except, it seems the feature

YouTube responds to complaints that its Restricted Mode censors LGBT videos

Mar 19, 2017 by Catherine Shu (@catherineshu)

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YouTube

FOUNDED
2005

OVERVIEW
YouTube is a video-sharing website created in February 2005 by three former [PayPal] (/company/paypal) employees: [Chad Hurley] (/company/chadhurley), [Steve Chen] (/company/stevechen) and [Jawed Karim] (/company/jawedkarim).

YouTube's Restricted Mode has been filtering innocuous LGBTQ+ content (Updated)



by ABHIMANYU GHOSHAL — 13 days ago in GOOGLE



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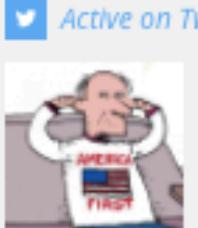
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Five Ways Virtual Reality Will Change The World



R.L. Adams, CONTRIBUTOR

I write about technology and online marketing. [FULL BIO ▾](#)

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Vomit Reality: Why VR makes some of us feel sick and how to make it stop

Nausea? Headaches? Eye strain? We find out about VR tech and motion sickness



DESIGN FLAWS

Is the Oculus Rift sexist?



PHEW!



IS AN ALGORITHM ANY LESS RACIST THAN A HUMAN?

"...any algorithm can – and often does – simply reproduce the biases inherent in its creator, in the data it's using, or in society at large. For example, Google is more likely to advertise executive-level salaried positions to search engine users if it thinks the user is male... While Harvard researchers found that ads about arrest records were much more likely to appear alongside searches for names thought to belong to a black person versus a white person..."

"These aren't necessarily malicious situations – it's not that Google is staffed by sexists, for example, but rather that the algorithm is just mirroring the existing gender pay gap. But in so doing, the algorithm reinforces that gap, and as long as we continue to believe an algorithm is an “unbiased” machine, we risk reinforcing the status quo in harmful ways."

- *The Guardian*



"You better check yo self before you wreck yo self"

- *Ice Cube: Highly respected prophet and software engineer*

Be cognizant of implicit bias...

... and how that manifests in code

(in other words, check your privilege)

The vast majority of us have privilege! For example...

- ▶ Please pay \$5 to play this game.
- ▶ Please enter the college you attended to confirm your identity.
- ▶ Please enter your manager's contact info to verify your work history.

BE COGNIZANT OF PROGRAMMING BIAS

EMACS VS VI/VIM

ANGULARJS VS REACT

CASSANDRA VS MONGODB

SERVER-SIDE VS CLIENT-SIDE

JAVA VS C++

and so on

DIVERSE TEAMS, COMPANIES, THOUGHTS,
BACKGROUNDs, MUSIC TASTES, ETC ETC

THE FUTURE OF COMPUTING - BUILDING AT UNPRECEDENTED SCALE:

- ▶ Machine learning
- ▶ Big Data
- ▶ Web Services
- ▶ Security Infrastructure
- ▶ ...and more!

**FOR THE FIRST TIME IN HISTORY WE ARE
LEARNING WHAT IT MEANS TO DESIGN AND
ENGINEER PRODUCTS FOR EVERYONE THE
WORLD.**



- ▶ Bad People
- ▶ Bad Computers

“You can’t ever reach perfection, but you can believe in an asymptote toward which you are ceaselessly striving.”

- Paul Kalanithi, *When Breath Becomes Air*

THANK YOU.

Questions?

THANK YOU.

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Sources

Why Carmakers Always Insisted on Male Crash-Test Dummies

Is an algorithm any less racist than a human?

Screenshots of articles reference their source.