

BAD PEOPLE, BAD COMPUTERS

by @tcburning





THROWBACK.CS

101

```
number = random.randint(1, 10)
guess = raw_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

```
if (guess > 10):
    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

```
#function that converts strings to integers
def convert(wordString):
    if(wordString == 'one'):
        return 1
    elif(wordString == 'two'):
        return 2
[...and so on...]
```

```
#convert if the user happens to enter a string
if(isinstance(guess, str)):
    guess = convert(guess)
```

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

- No comprendo
- Je ne comprends pas
- Ek verstaan nie

[...and so on...]

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



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OVERVIEW
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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

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OVERVIEW
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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



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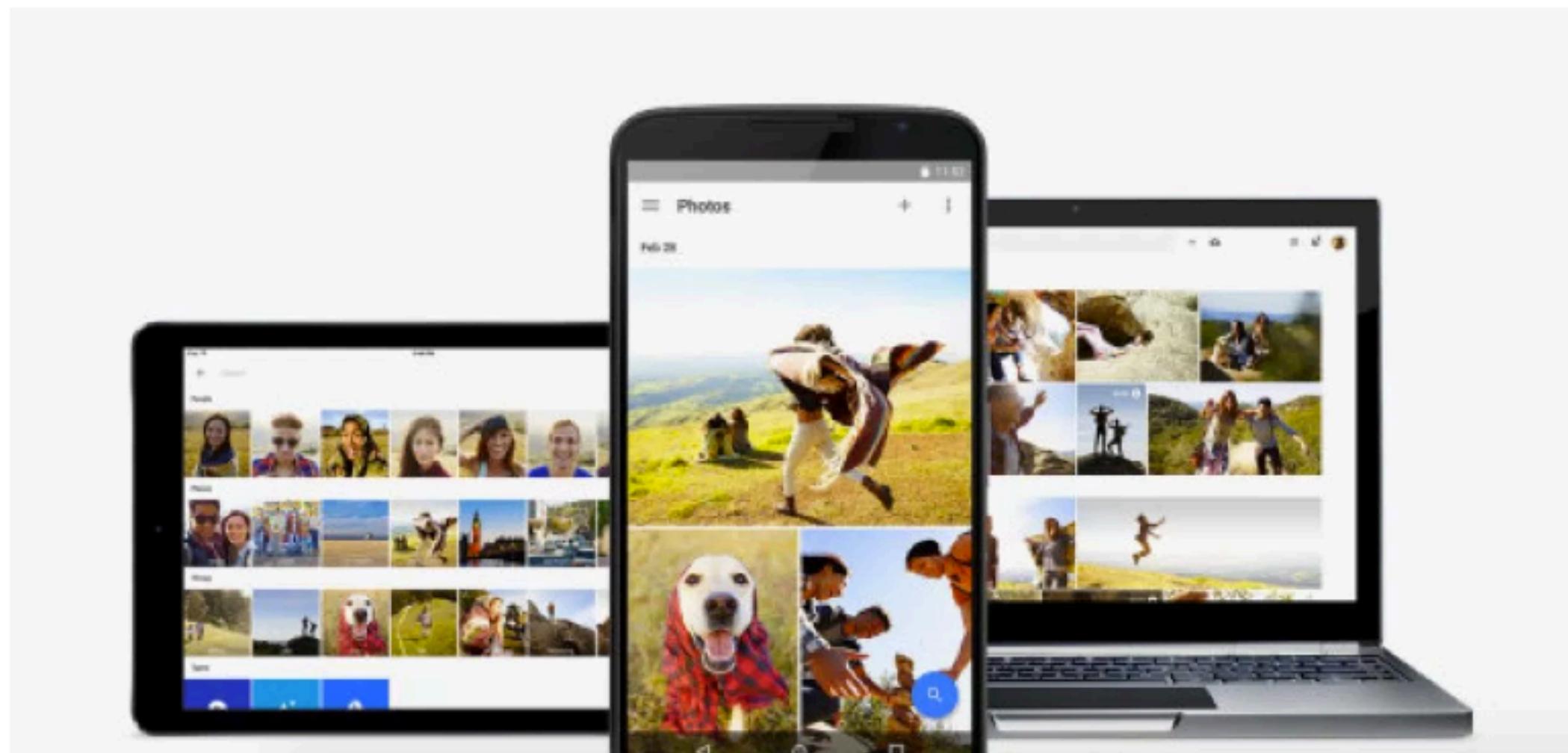
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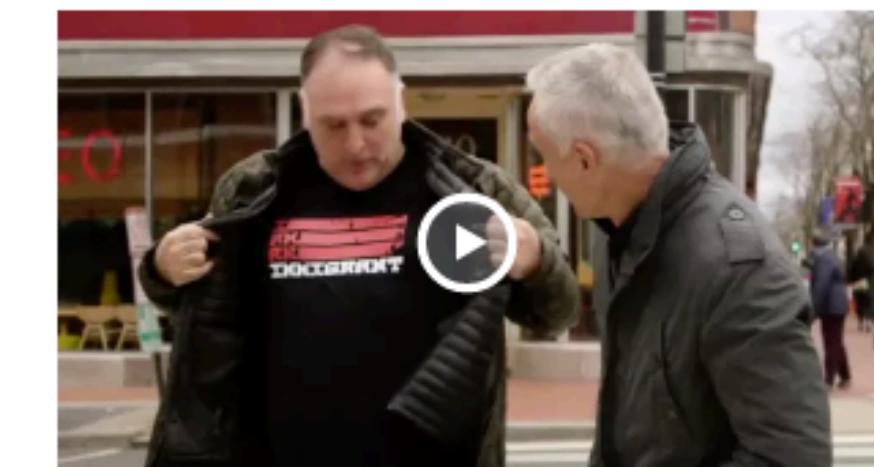
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6/4/15 8 AM

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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


(Photo: Jeff Chiu, Associated Press)

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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."

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JULY 2, 2015 7:22AM

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YOUR HEALTH

Women, There's A Reason Why You're Shivering In The Office

August 4, 2015 · 12:13 PM ET

RAE ELLEN BICHELL



Office air conditioning is too cold, women think, and science says they're right

 Scott Stump
TODAY

Jul. 21, 2016 at 9:40 AM

To all the women bundled in sweaters and blankets in your office air conditioning even though it's 100 degrees outside: A study says that it's not all in your head. It really IS cold.

As many women bundle up against the arctic air conditioning, their male counterparts one cubicle over have no idea what all the fuss is about. It turns out that science says the office A/C may be biased toward temperatures that are more comfortable for men — thanks to a formula from more than 50 years ago.

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The Telegraph

Science

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Women shiver at work in 'sexist' air conditioning

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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.

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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.