**TOP 200** 

# COMMON PASSWORDS



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### Introduction

Analysis of top 200 common passwords by 49 countries

Why should business and tech leaders analyze passwords?



### Part 2.

Comparing

### Passwords by Countries

Finding the best, worst, and everyone in between

Question One

How many users in each country were found to have used passwords on the list

Question Two

What is the average password length by country?

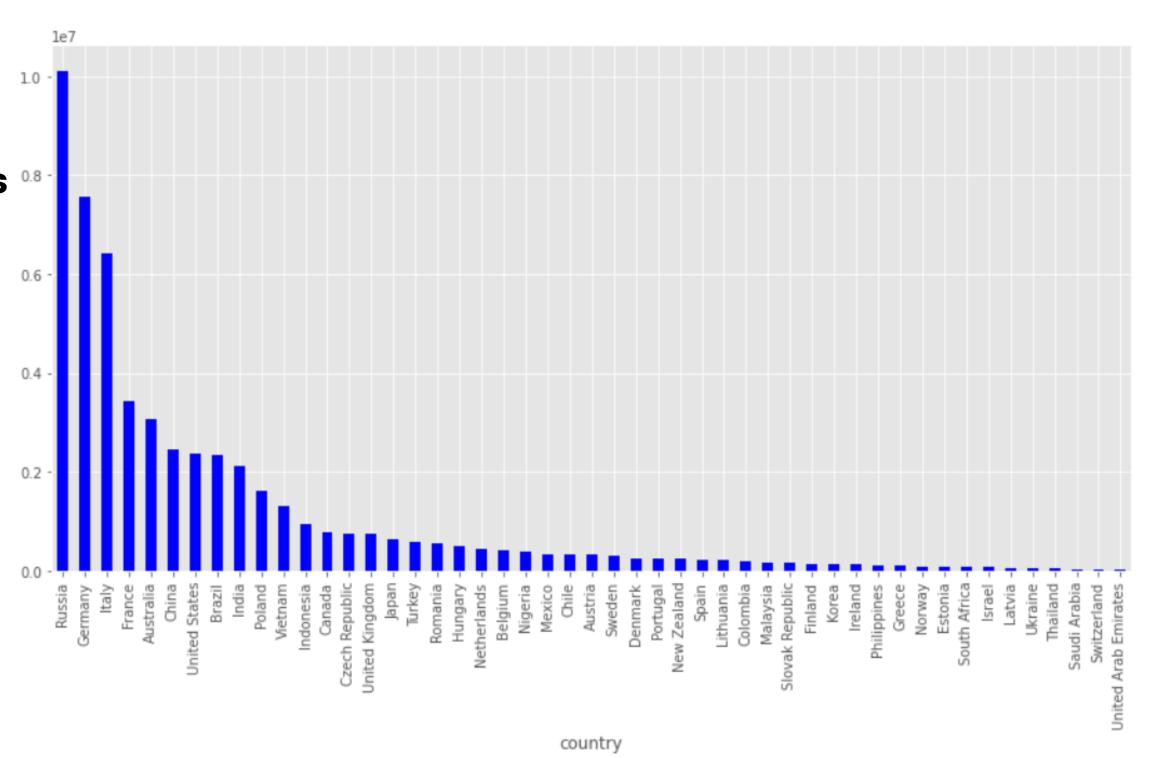
Question Three

What is the average time to crack the password by country?

# O1. How many users in each country were found to have used passwords

Average: 12630.86

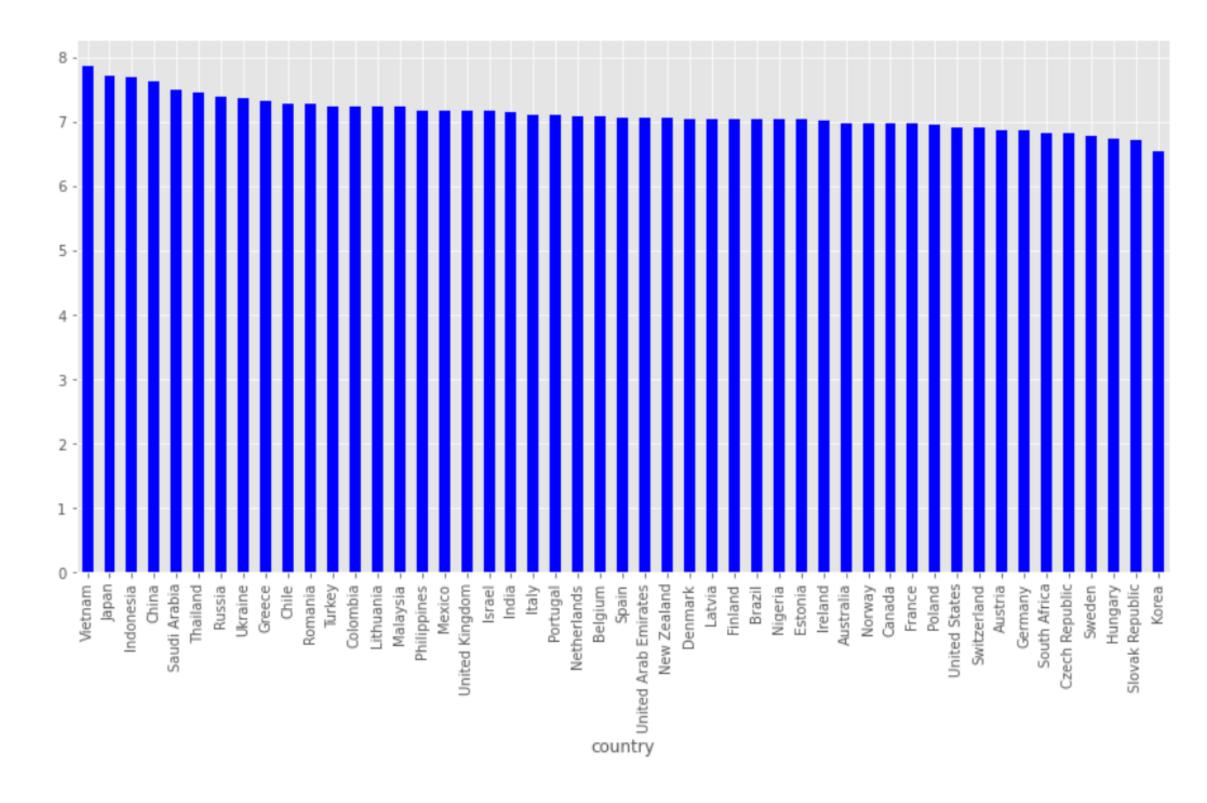
on the list in 2020?



### 02.

### What is the average password length by country in 2020?

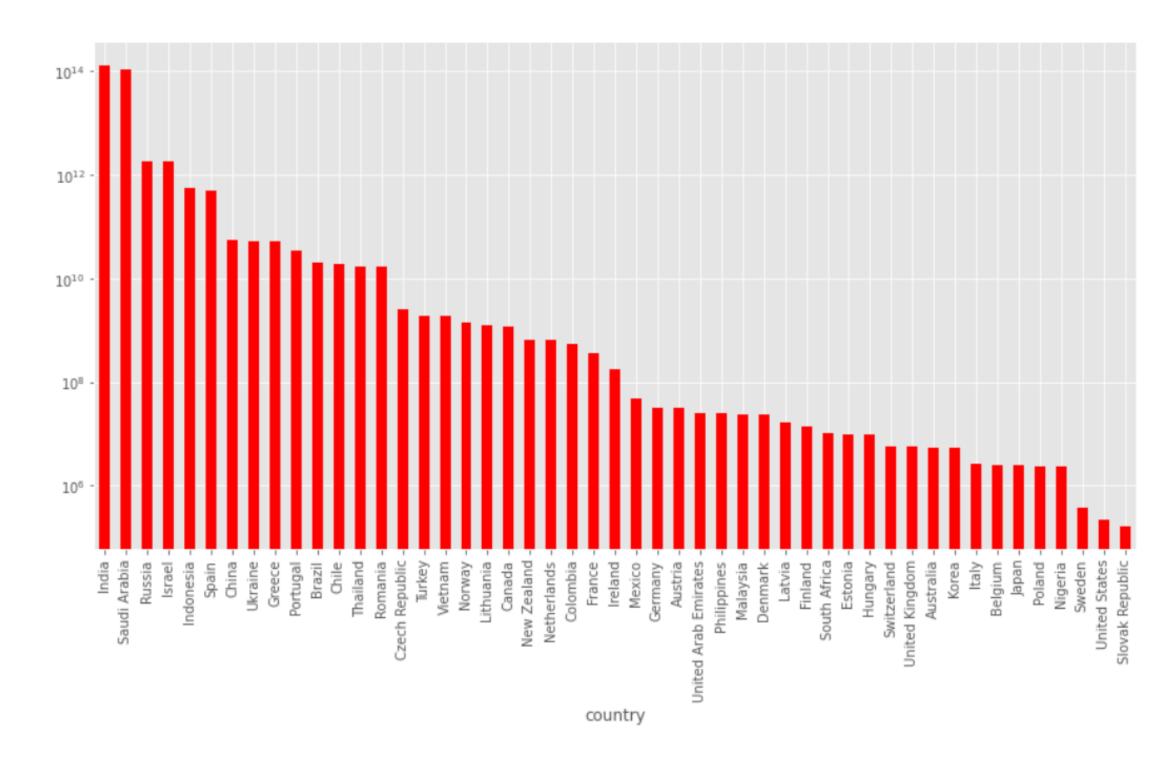
Average: 7.11



### 03.

## What is the average time to crack the password (in seconds) by country?

Average: 5003708088591.47 seconds



### Part 3.

Top 5

# Unique Passwords

Of the Unique passwords in the list, the top five used in 2020 are

01

target123

713609 users

02

**1g2w3e4r** 

713360 users

03

gwerty123

713241 users

04

zag12wsx

710667 users

05

tinkle

699420 users

# Part 4. Password Complexity

Using unique passwords from the list

### Breakdown

What makes a strong password?

Determined password strength by how complex the password is.

٦

Uppercase

"ABCDEFGHIJKLMNOPQRSTUVWXYZ"

2

Lowercase

"abcdefghijklmnopqrstu vwxyz" 3

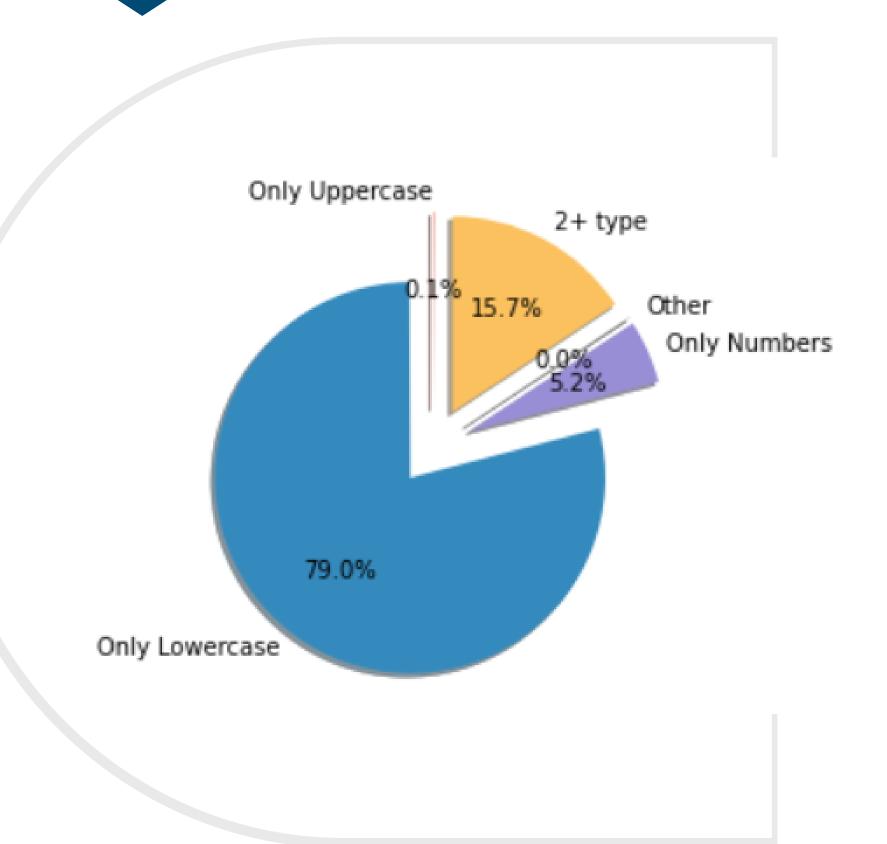
Number

"1234567890"

4

**Special Character** 

5

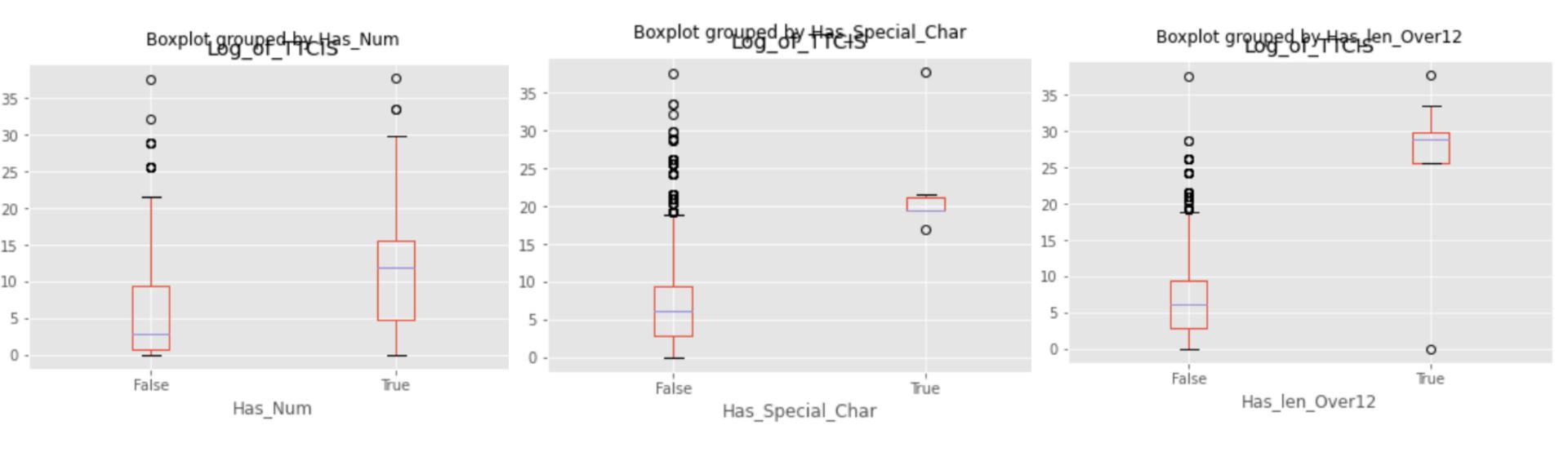


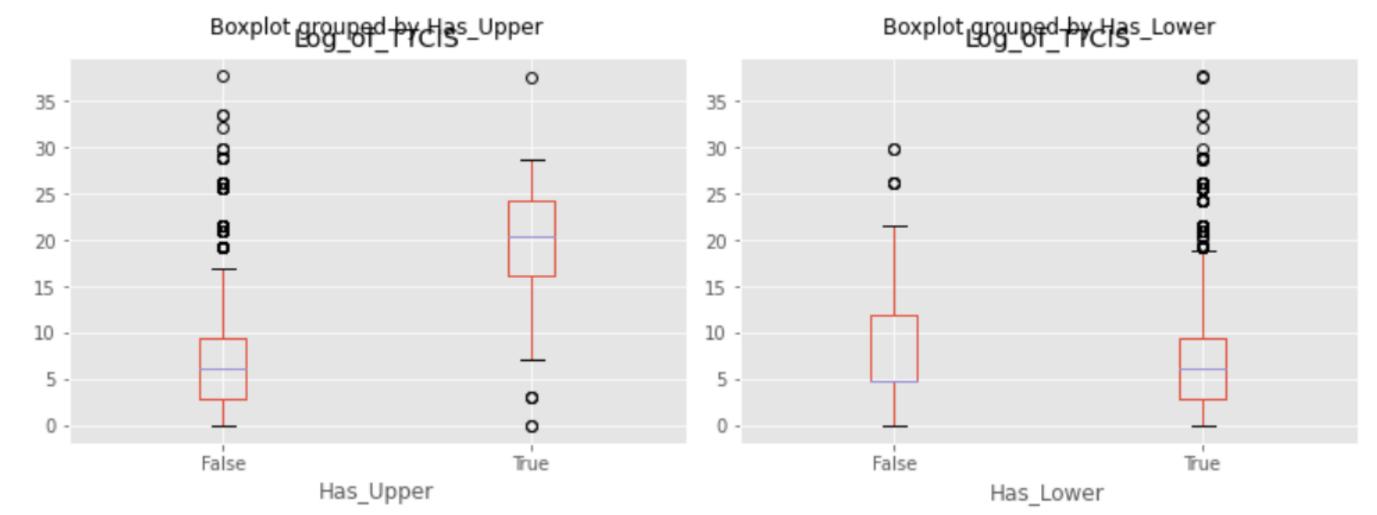
Of the unique passwords

## Majority had only one type

84.3 % Complexity 1

2 Other found

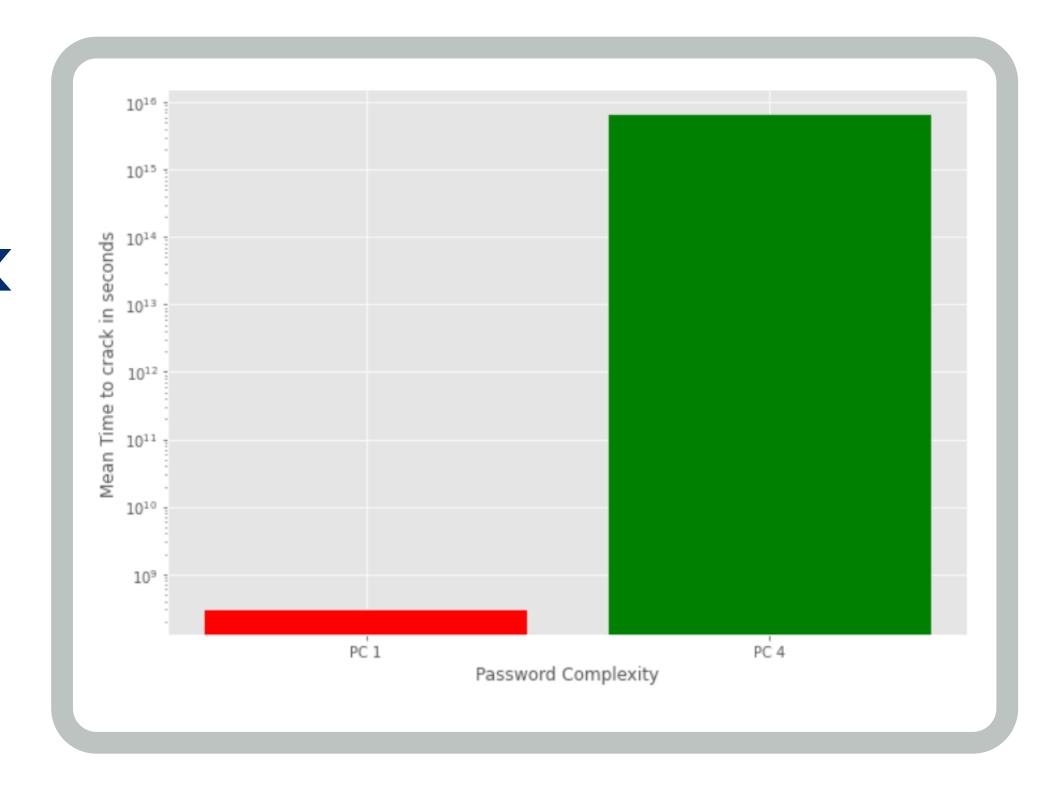






# Complexity and Mean Time to Crack

PC1 vs. PC4



### Part 5

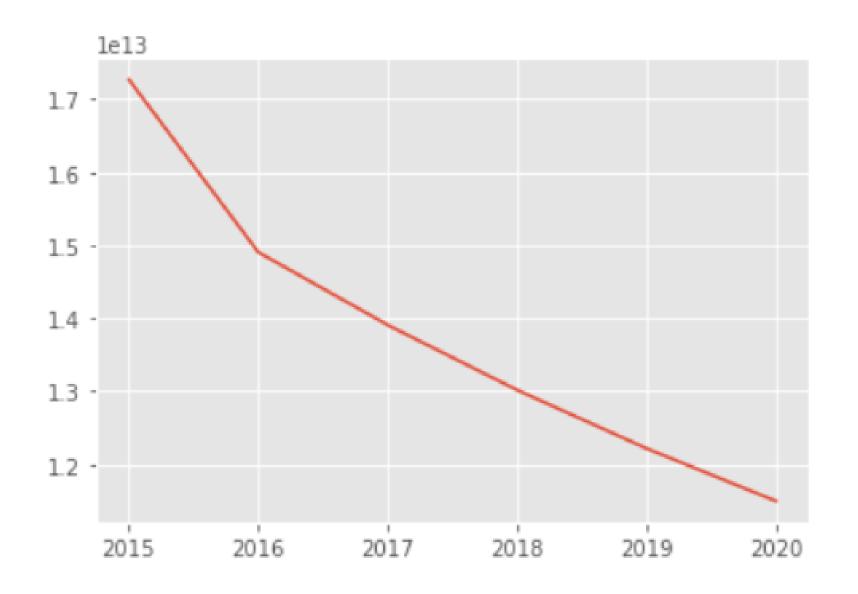
# Passwords over Time

Of the unique passwords in the list, has the crack time changed from the past years?

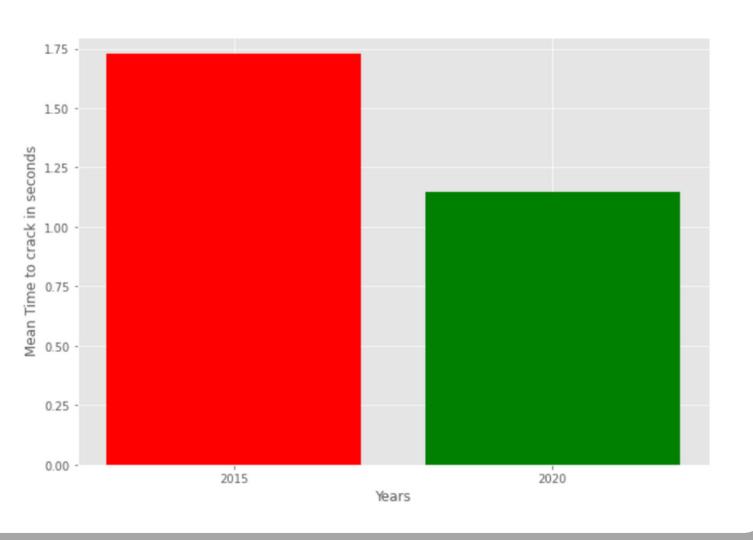


Average Crack Time for the Unique Password Set Over

### **Past 5 Years**









### **Future Work**

If I had more time and data

- See how the average password length changes over time
- 2 See if there is any correlation between top trending words/hashtags and passwords

