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Where are these stats from?

- Rockyou breach (2009)
- Gawker password dump (2010)
- Sony Pictures breach (2011)
- VK hack (2012)
- Myspace breach (2013)
- 000webhost.com hack (2015)
- ClixSense hack (2016)
- uTorrent breach (2016)
- Faithwriters file (2018)
- Outlook/Hotmail password breach (2019)

TOP 12 MOST COMMON PASSWORDS (2020)

1) 123456

2) 123456789

3) picture1

4) password

5) 12345678

6) 111111

7) 123123

8) 12345

9) 1234567890

10) senha

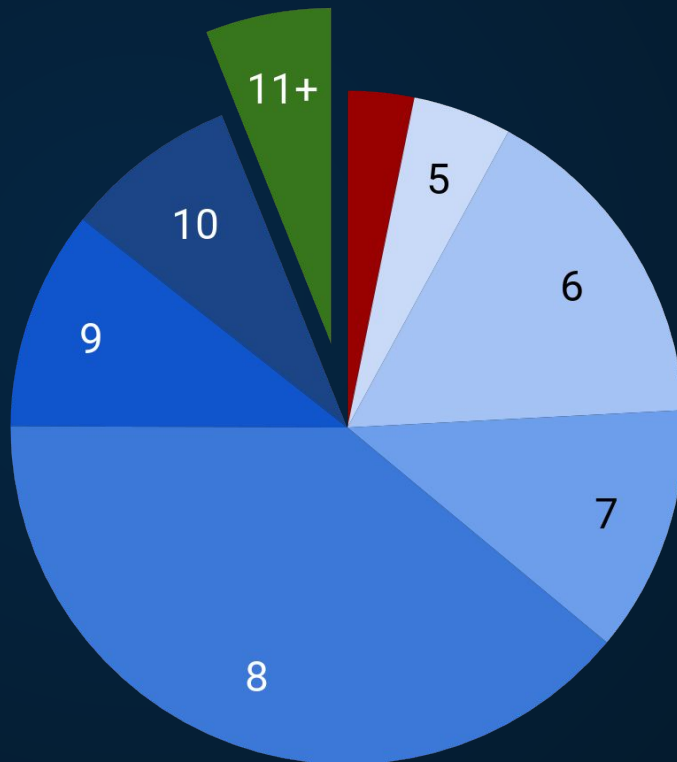
11) 12345678

12) qwerty

In 2016, the top 25 passwords made up **10%** of all surveyed passwords!

PASSWORD LENGTH

1-4	3.19%
5	4.74%
6	16.25%
7	11.85%
8	39.05%
9	10.55%
10	8.32%
11+	6.07%



PASSWORDS WITH SYMBOLS

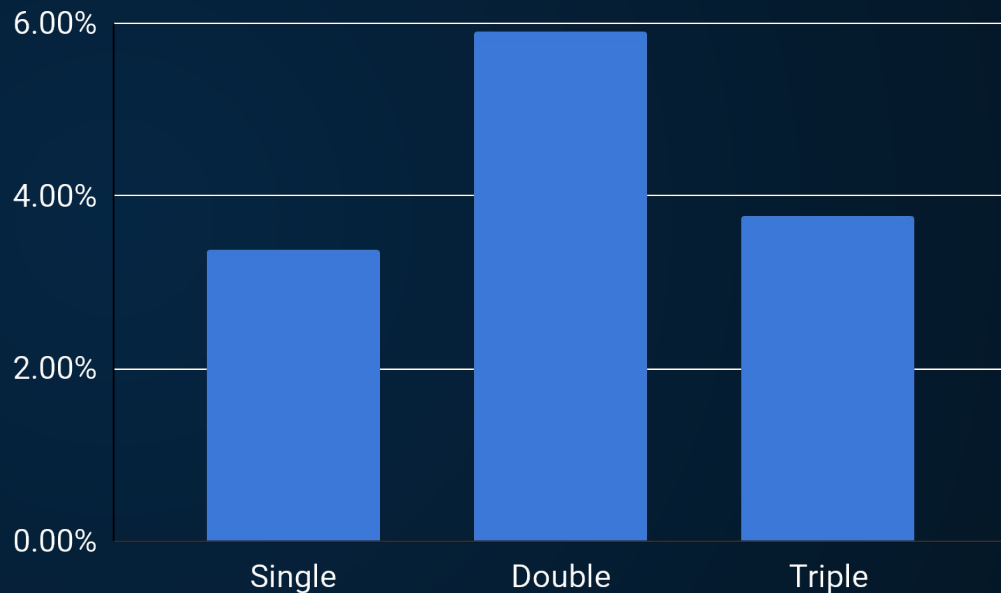
Alphanumeric 98.98%

**Contains
symbols** 1.02%



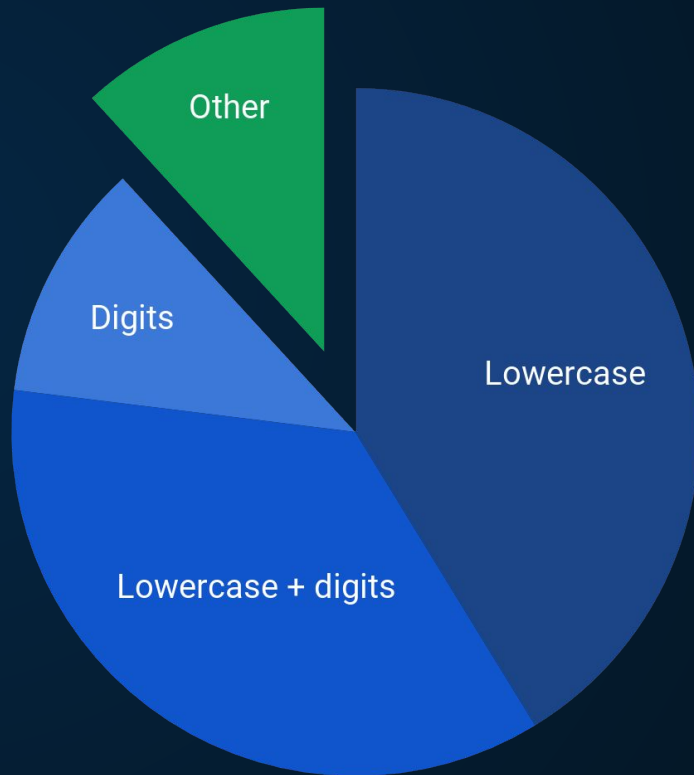
DICTIONARY WORDS W/ APPENDED DIGITS

Single	3.38%
Double	5.90%
Triple	3.77%
TOTAL	13.05%



CHARACTER SETS

Lowercase	41.25%
Lowercase + digits	35.70%
Digits	11.24%
Other	11.81%



APPLICATION

If we cracked a password dump with

1-10 CHARACTERS

and

**LOWERCASE
LETTERS + DIGITS**

that would be

3,760,620,109,779,060 passwords

or a

34 PB (34,000,000 GB) file

APPLICATION

That would capture

~82.8% of all passwords

and would take

just over 5 hours

for an MD5 hash + 8 top-tier GPUs (\$1,200 each)

REFERENCES

- Top 200 most common passwords of the year 2020 - <https://nordpass.com/most-common-passwords-list/>
- A brief Sony password analysis - <https://www.troyhunt.com/brief-sony-password-analysis/>
- Brief Analysis of the Gawker Password Dump - <https://duo.com/blog/brief-analysis-of-the-gawker-password-dump>
- Pipal, Password Anlayser - <https://digi.ninja/projects/pipal.php>
- Use Leaked Password Databases to Create Brute-Force Wordlists - <https://null-byte.wonderhowto.com/how-to/use-leaked-password-databases-create-brute-force-wordlists-0184006/>