

Intro

November 10, 2020

1 Intro

1.1 Why *python*?

1.1.1 Roots of its fortune

- Fast to learn, extremely versatile and flexible programming language
- Very high-level and concise
 - Allows users to write their program in less time and hopefully with less bugs
- Interpreted and highly portable
 - Extensions like *Cython* exist and aim to build native code from a *Python* like language
- Often called “a glue language”, it can let disparate code interoperate
 - This helps relieving the poorer performance when compared to compiled code
- Strong community
- Large number libraries and packages available

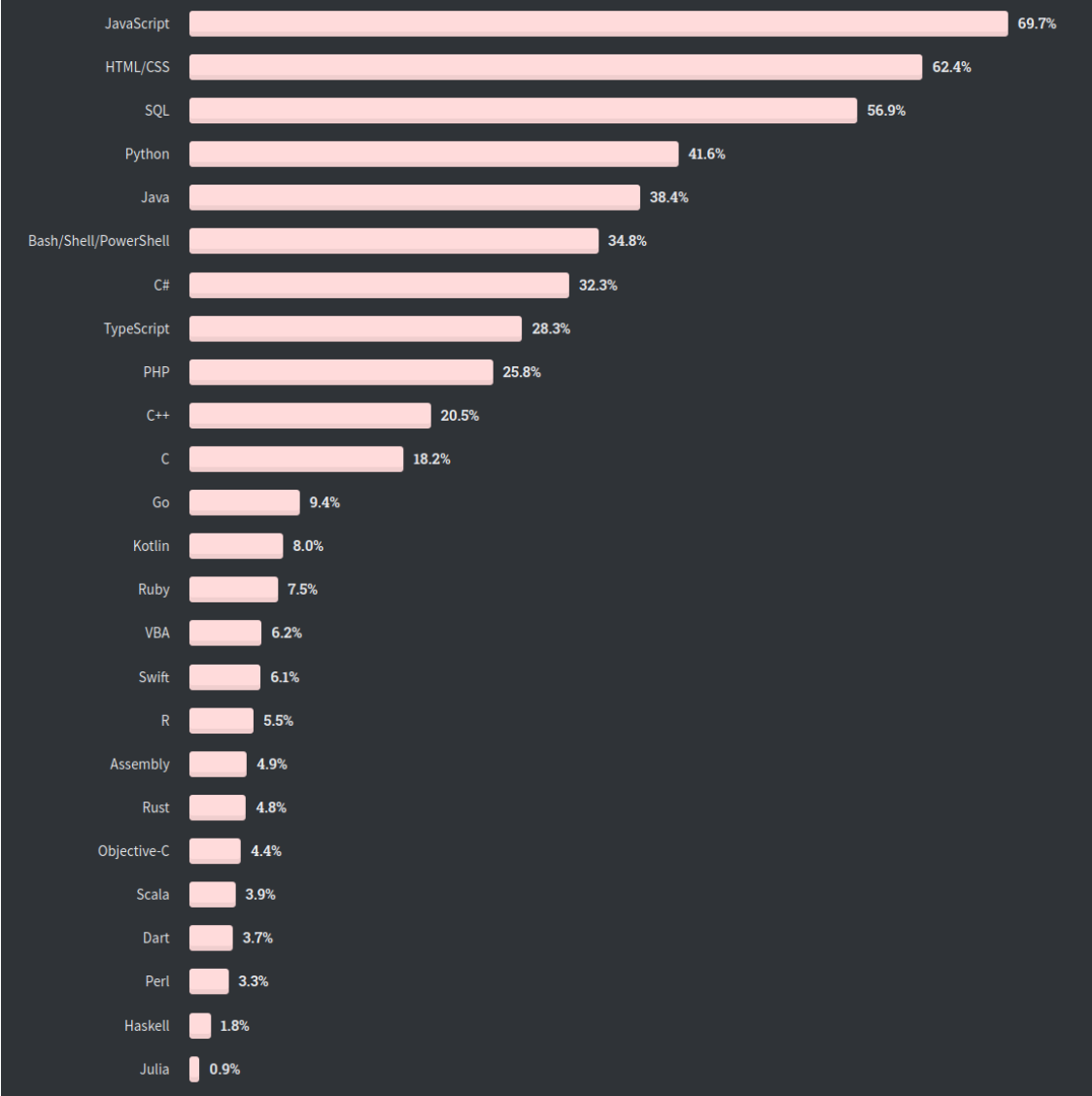
1.1.2 Applications

- Data Science
 - Loading, processing and plotting of data
- Web development (backend)
 - Django, Flask, Sanic frameworks and more
- Scientific and Numeric Applications
 - Modeling
- Artificial Intelligence and Machine Learning
- Image and Text processing
- Scripting
- ...

1.2 *Python* in numbers

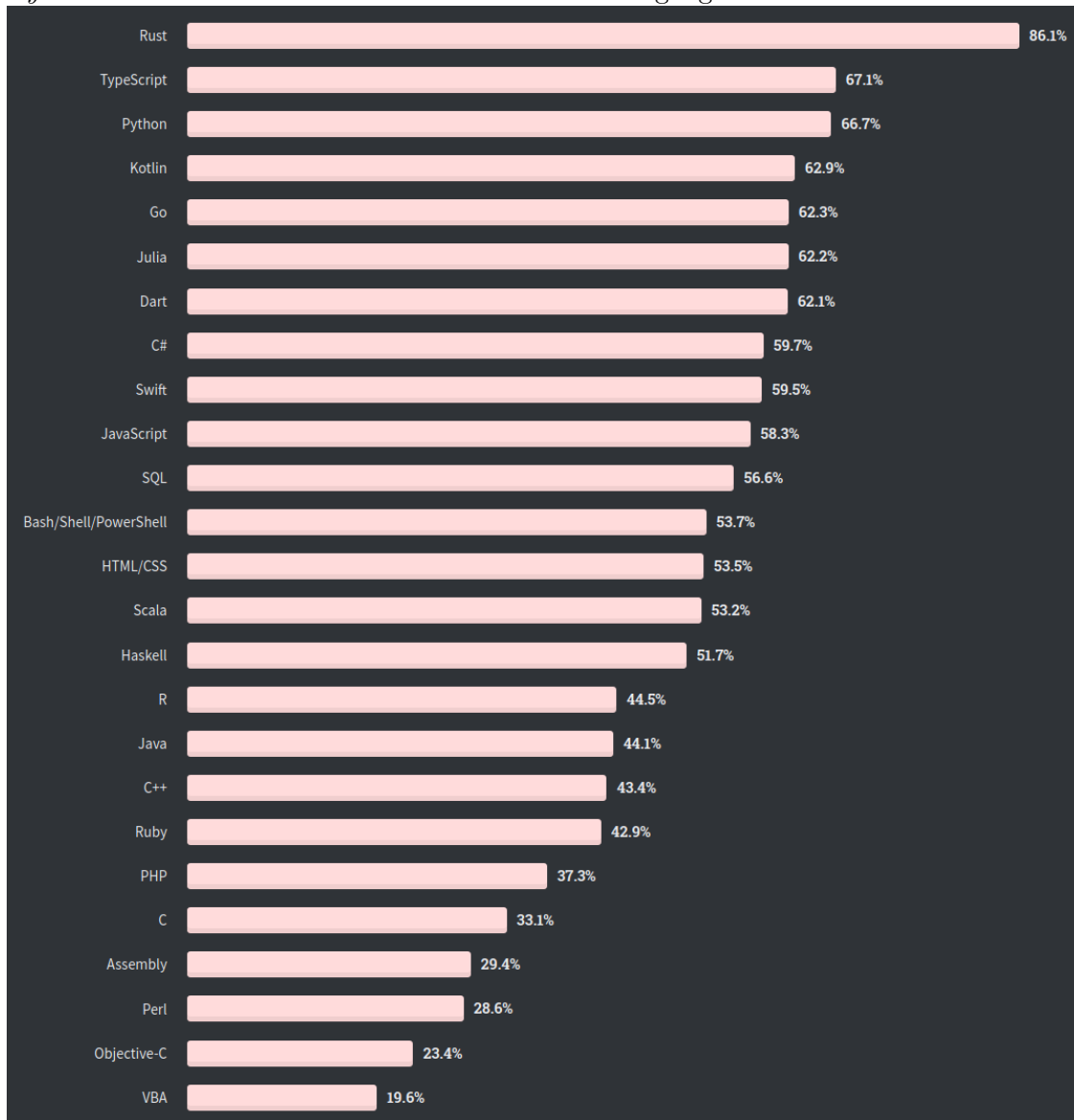
1.2.1 Popularity

According to *StackOverflow's* latest (2020) survey, it is the third most popular programming language after *JavaScript* and *TypeScript*.



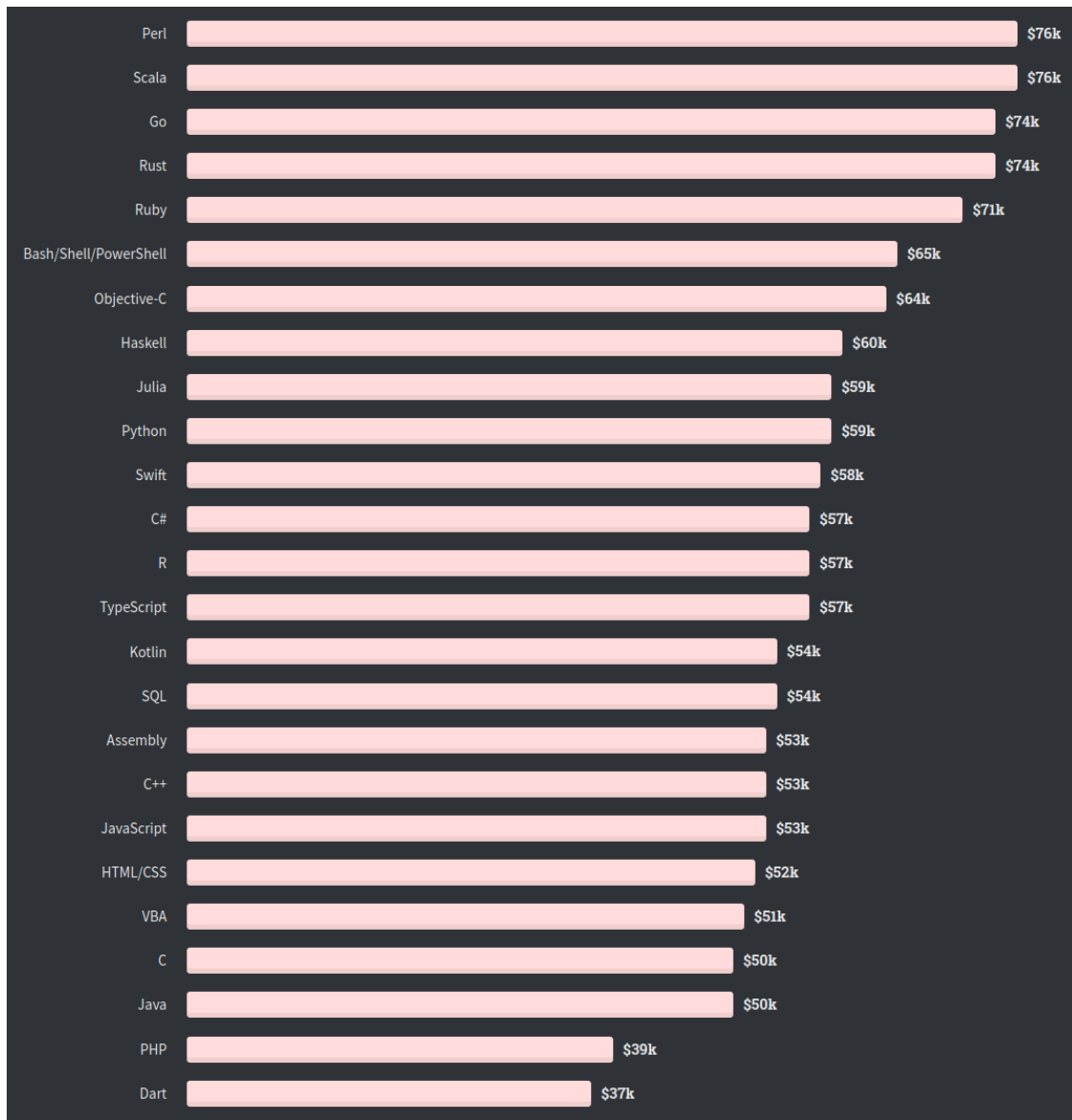
1.2.2 User friendliness

Python is the third most loved language after *Rust* and *TypeScript*



1.2.3 Salaries

The salaries for *Python* developers are in the middle of the chart (\$59k/year vs *Perl* that pays \$76k/year), but take these numbers with a grain of salt as it mainly depends on what your job is, since *Python* is extremely versatile.



1.3 References

- [StackOverflow Survey 2019](#)