

What is Python?

Machine learning with Python for finance professionals

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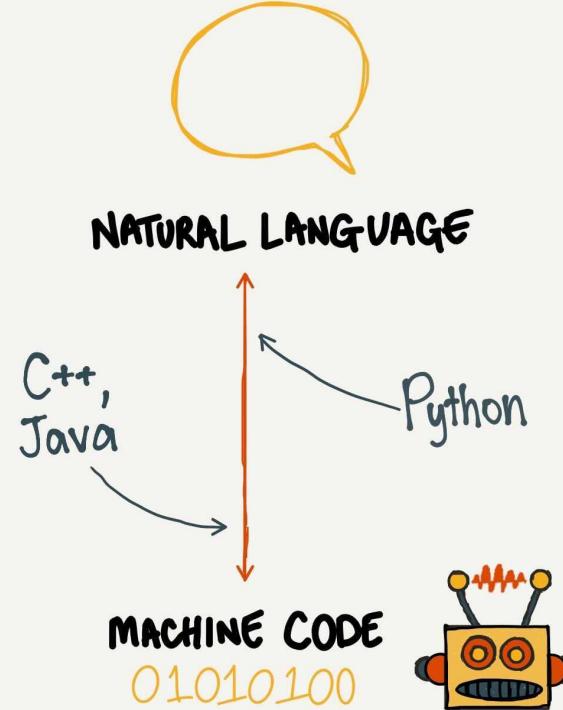
- Created by Guido Van Rossum in 1991
- Emphasises **productivity** and **code readability**
- The language is **easy to pick up** and learn
- **Readable code** means that almost anyone can pick up a piece of code and understand what it is doing



Why Python?

1. Human readable
2. High level
3. General purpose
4. Cross-platform
5. Free & open source
6. Strong & friendly community

What are the downsides?

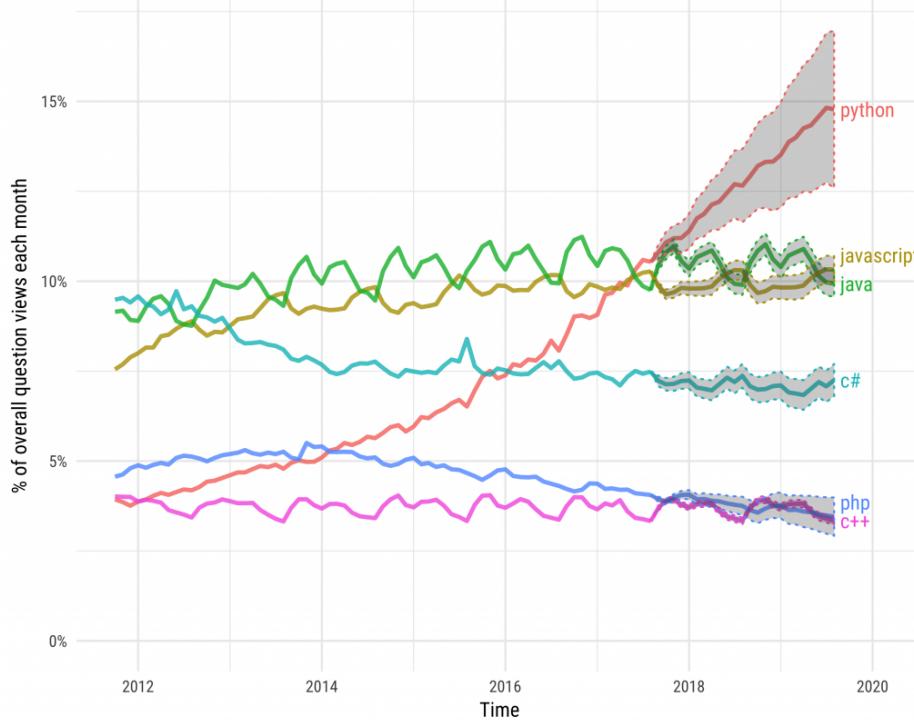




- Growth of major programming languages
- Based on Stack Overflow questions views in World Bank high-income countries

Projections of future traffic for major programming languages

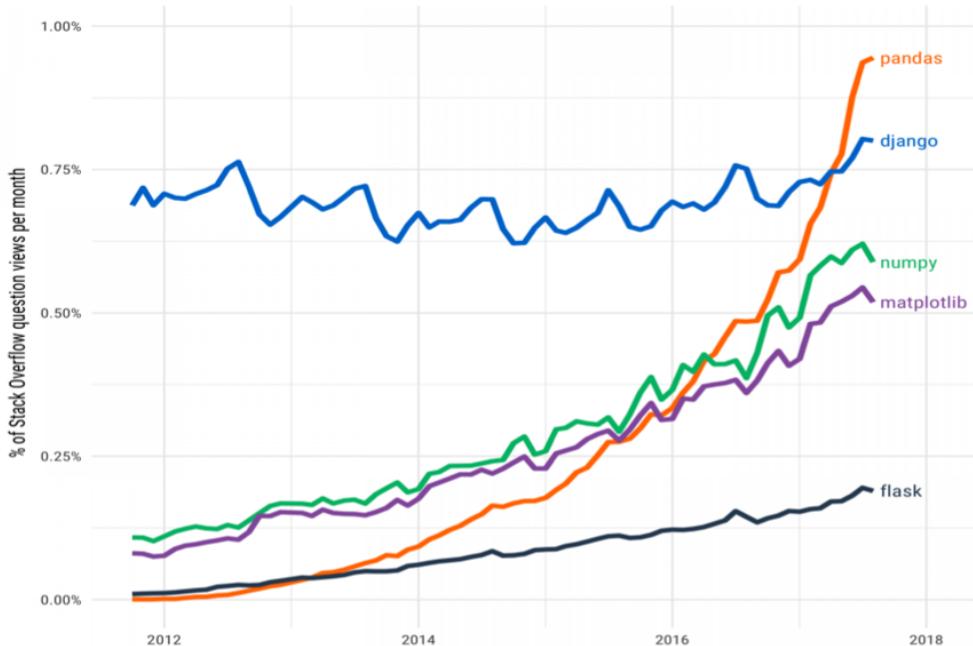
Future traffic is predicted with an STL model, along with an 80% prediction interval.



<https://stackoverflow.blog/2017/09/06/incredible-growth-python/>



- Stack Overflow Traffic to questions about selected Python packages
- Based on Stack Overflow questions views in World Bank high-income countries



<https://stackoverflow.blog/2017/09/14/python-growing-quickly/>

The Zen of Python

- Beautiful is better than ugly.
- Explicit is better than implicit.
- Simple is better than complex.
- Complex is better than complicated.
- Readability counts.
- There should be one-- and preferably only one --obvious way to do it.

<https://www.python.org/dev/peps/pep-0020/>

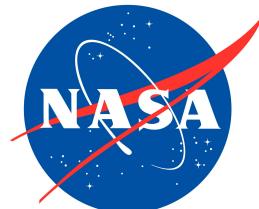
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