



SESIONI

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# What you will learn

- Intro
- Development Environment
- Syntax
- Data types
- Variables & Constants
- Operators
- Conditionals
- Loops (break and continue)
- Functions

# Intro

Python is an interpreted, high-level and general-purpose programming language.

Created by Guido van Rossum and first released in 1991, Python's design philosophy emphasizes code readability with its notable use of significant whitespace.

Python != 

Python == Monty Python (a British surreal comedy troupe)



# Intro

Typing discipline: Duck, dynamic, gradual (since 3.5)

Stable release: 3.9.0 / [5 October 2020](#); 32 days ago

Preview release: 3.10.0a1 / [5 October 2020](#); 32 days ago

Designed by: [Guido van Rossum](#)

OS: [Linux](#), [macOS](#), Windows; and more

Filename extensions: .py,.pyi,.pyc,.pyd,.pyo (prior to 3.5),.pyw,.pyz (since 3.5)

# Intro

- Web
  - Django, Flask, Bottle, Web2py, etc.
- Data science
  - NumPy, SciPy, Pandas, SciKit-Learn, TensorFlow, etc.
- GUI
  - Tkinter, PyQt, WxPython, Python GTK+ 3, Kivy, etc.

### python

a multi-paradigm, dynamically typed, multipurpose programming language. It is designed to be quick to learn, understand, and use, and enforce a...

1580148 questions      1278 asked today, 7516 this week

### python-3.x

For questions about Python programming that are specific to version 3+ of the language. Use the more generic [python] tag on all Pyth...

259526 questions      265 asked today, 1514 this week

### python-2.7

the last major version in the 2.x series, and is no longer maintained since January 1st 2020. Use the generic [python] tag on all Python questions....

94127 questions      7 asked today, 58 this week

### python-requests

USE ONLY FOR THE PYTHON REQUESTS LIBRARY. Requests is a full-featured Python HTTP library with an easy-to-use, logical API.

14853 questions      20 asked today, 103 this week

### wxpython

a Python wrapper for the cross-platform C++ GUI API wxWidgets.

6818 questions      5 asked this week, 17 this month

### ipython

a feature-rich interactive shell for Python, and provides a kernel for frontends such as IPython Notebook and Jupyter Notebook.

6652 questions      5 asked today, 12 this week

### python-imaging-library

The Python Imaging Library (PIL) provides the Python language with a de-facto standard foundation for image work. PIL's API is lightweight but...

6609 questions      28 asked this week, 127 this month

### python-3.6

Version of the Python programming language released in December 2016. For issues specific to Python 3.6. Use more generic [python] and [python-3....

5442 questions      13 asked this week, 74 this month

### python-import

For questions about importing modules in Python

4578 questions      12 asked this week, 78 this month

### python-asyncio

to be used for the asyncio Python package which provides mechanisms for writing single-threaded concurrent code. The asyncio package provides...

4025 questions      25 asked this week, 120 this month

### python-3.7

Version of the Python programming language released in June 27, 2018. For issues that are specific to Python 3.7. Use the more generic [python] a...

3838 questions      23 asked this week, 82 this month

### python-3.5

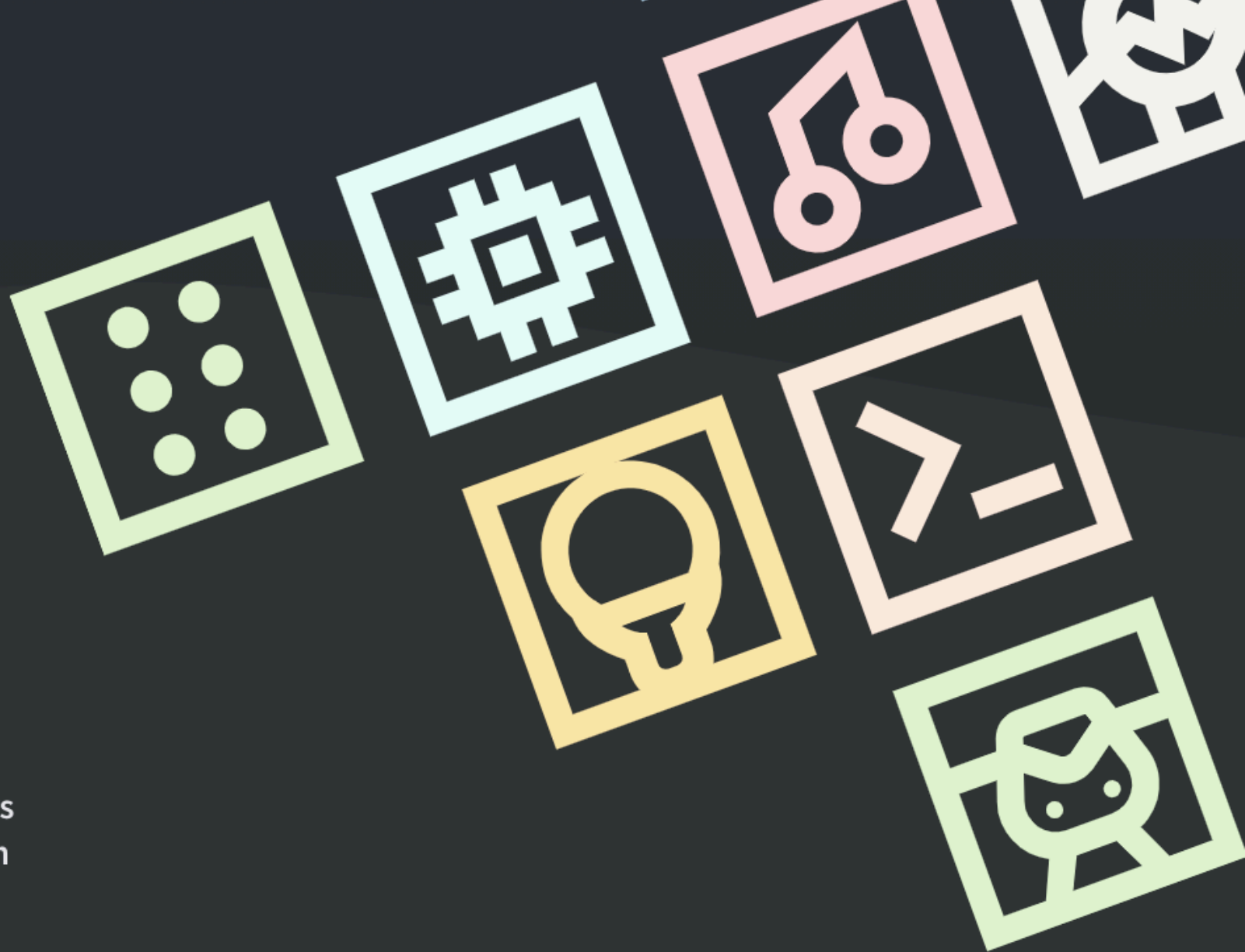
The version of the Python programming language released on September 13, 2015. For issues that are specific to Python 3.5. Use the...

3451 questions      7 asked this month, 165 this year

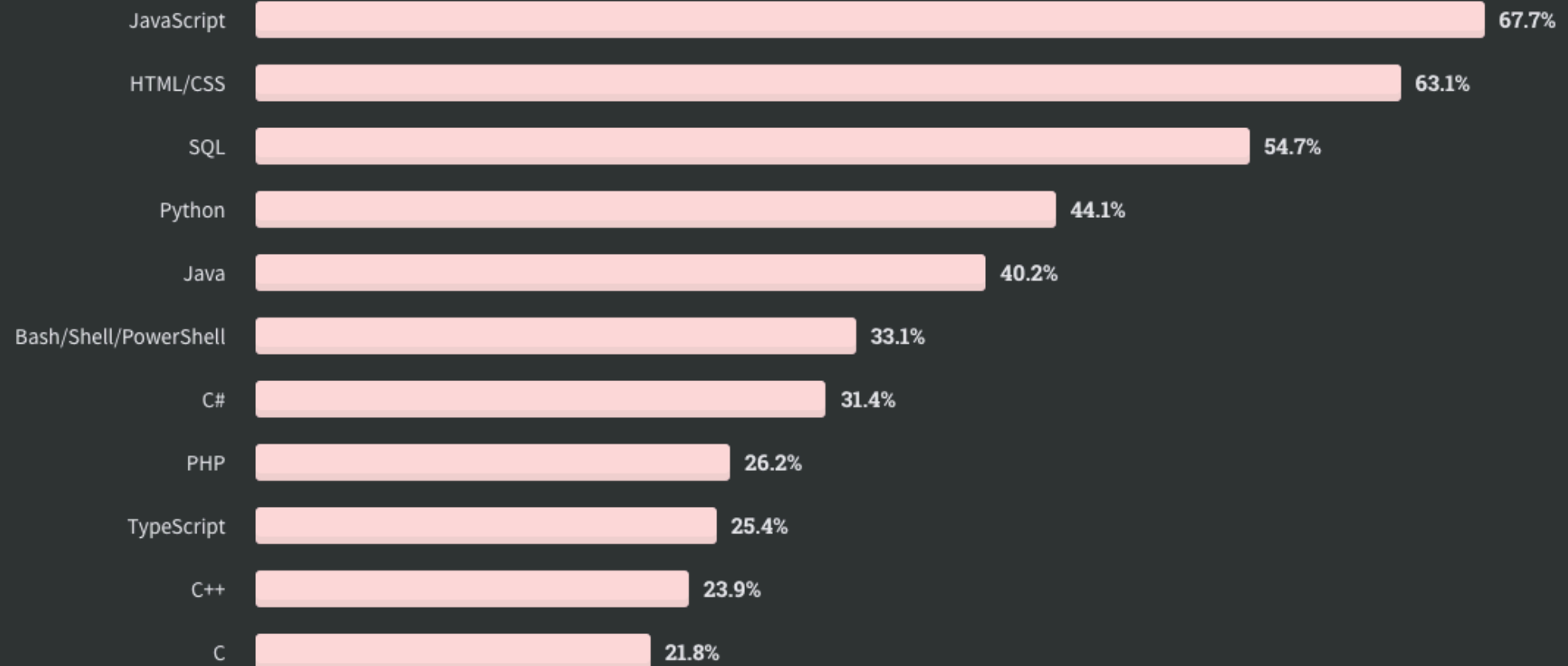


## 2020 Developer Survey

In February 2020 nearly 65,000 developers told us how they learn and level up, which tools they're using, and what they want.

[Read the overview →](#)[Methodology →](#)

# Most Popular Technologies





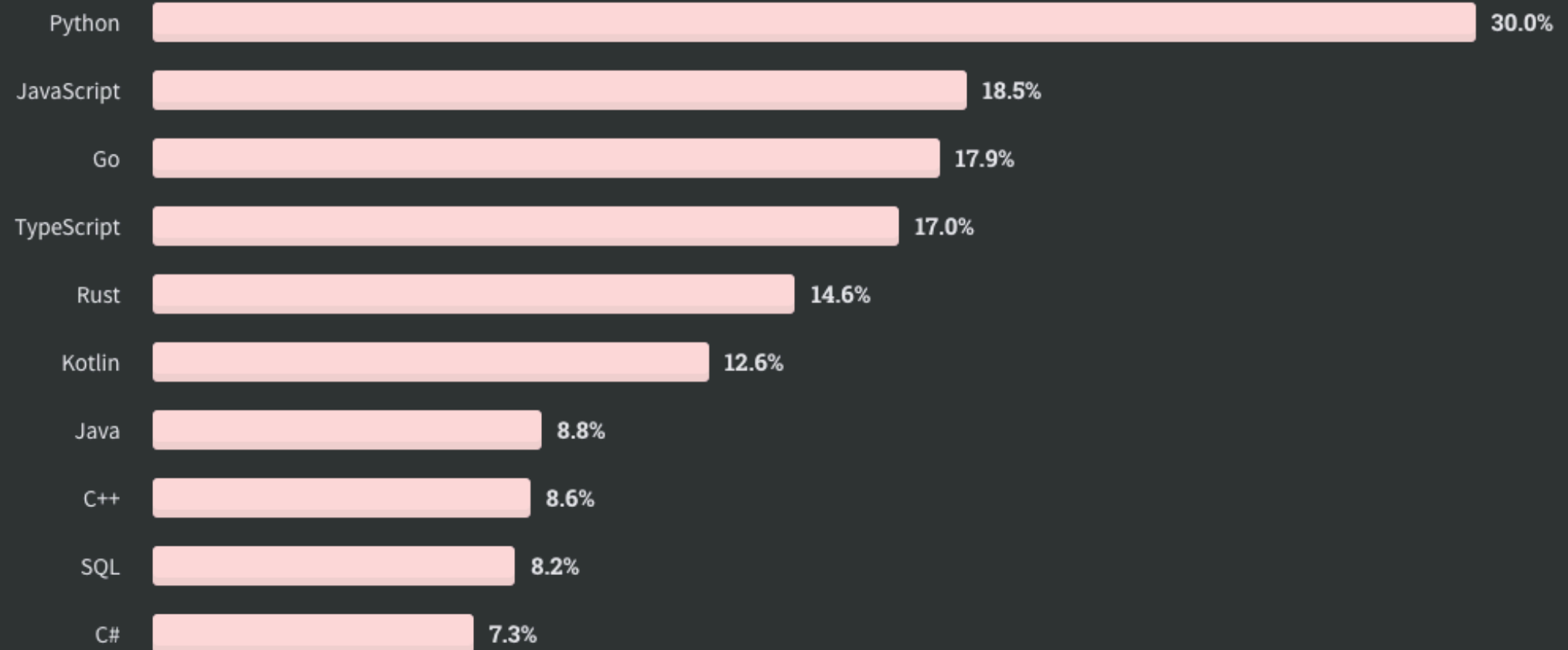
# Most Loved, Dreaded, and Wanted



# Most Loved, Dreaded, and Wanted



# Most Loved, Dreaded, and Wanted



# 8 World-Class Software Companies That Use Python

- Industrial Light and Magic
- Facebook
- Instagram
- Spotify
- Quora
- Netflix
- Dropbox
- Reddit

# Development Environment

- Python interpreter
  - <https://www.python.org>
- Visual Studio Code
  - <https://code.visualstudio.com>
- SQLite
  - <https://www.sqlite.org/index.html>

# Let's code...

- Syntax
- Data types
- Variables & Constants
- Operators
- Conditionals
- Loops (break and continue)
- Functions