Python (programming language)

**Python** is an [interpreted](https://en.wikipedia.org/wiki/Interpreted_language), [high-level](https://en.wikipedia.org/wiki/High-level_programming_language), [general-purpose](https://en.wikipedia.org/wiki/General-purpose_programming_language) [programming language](https://en.wikipedia.org/wiki/Programming_language). Created by [Guido van Rossum](https://en.wikipedia.org/wiki/Guido_van_Rossum) and first released in 1991, Python's design philosophy emphasizes [code readability](https://en.wikipedia.org/wiki/Code_readability) with its notable use of [significant whitespace](https://en.wikipedia.org/wiki/Off-side_rule). Its language constructs and [object-oriented](https://en.wikipedia.org/wiki/Object-oriented_programming) approach aim to help programmers write clear, logical code for small and large-scale projects.[[27]](https://en.wikipedia.org/wiki/Python_(programming_language)#cite_note-AutoNT-7-27)

Python is [dynamically typed](https://en.wikipedia.org/wiki/Dynamic_programming_language) and [garbage-collected](https://en.wikipedia.org/wiki/Garbage_collection_(computer_science)). It supports multiple [programming paradigms](https://en.wikipedia.org/wiki/Programming_paradigms), including [procedural](https://en.wikipedia.org/wiki/Procedural_programming), object-oriented, and [functional programming](https://en.wikipedia.org/wiki/Functional_programming). Python is often described as a "batteries included" language due to its comprehensive [standard library](https://en.wikipedia.org/wiki/Standard_library).[[28]](https://en.wikipedia.org/wiki/Python_(programming_language)#cite_note-About-28)

Python was conceived in the late 1980s as a successor to the [ABC language](https://en.wikipedia.org/wiki/ABC_(programming_language)). Python 2.0, released in 2000, introduced features like [list comprehensions](https://en.wikipedia.org/wiki/List_comprehension) and a [garbage collection](https://en.wikipedia.org/wiki/Garbage_collection_(computer_science)) system capable of collecting [reference cycles](https://en.wikipedia.org/wiki/Reference_cycle). Python 3.0, released in 2008, was a major revision of the language that is not completely [backward-compatible](https://en.wikipedia.org/wiki/Backward_compatibility), and much Python 2 code does not run unmodified on Python 3.

The Python 2 language, i.e. Python 2.7.x, is "sunsetting" on January 1, 2020 (after extension; first planned for 2015), and the Python team of volunteers will not fix security issues, or improve it in other ways after that date.[[29]](https://en.wikipedia.org/wiki/Python_(programming_language)#cite_note-29)[[30]](https://en.wikipedia.org/wiki/Python_(programming_language)#cite_note-30) With the [end-of-life](https://en.wikipedia.org/wiki/End-of-life_(product)), only Python 3.5.x and later will be supported.

The language's core philosophy is summarized in the document *The*[*Zen of Python*](https://en.wikipedia.org/wiki/Zen_of_Python) (*PEP 20*), which includes [aphorisms](https://en.wikipedia.org/wiki/Aphorism) such as:[[53]](https://en.wikipedia.org/wiki/Python_(programming_language)" \l "cite_note-PEP20-53)

* Beautiful is better than ugly.
* Explicit is better than implicit.
* Simple is better than complex.
* Complex is better than complicated.
* Readability counts.

For more you can go through Wikipedia link

<https://en.wikipedia.org/wiki/Python_(programming_language)>

How to become Python expert fast

I won’t lie but to be expert in python It will take at least 5-6 month, to become a python expert you must

Learn below things

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| 1. Getting Started 2. Installing Python 3. Setup python in IDE |
| 1. Variables |
| 1. Simple Data Types |
| 1. Introducing Lists |
| 1. Working with Lists |
| 1. if Statements 2. Tuples |
| 1. Dictionaries |
| 1. User Input 2. while Loops |
| 1. Functions |
| 1. Classes 2. Oops |
| 1. Files and Exceptions 2. Pandas 3. Numpy 4. Data visualization 5. Python Scripting 6. Python Web Flask 7. Python Web Django 8. Deploying Python App 9. Projects 10. Different text Editors 11. Getting help in Python 12. Using GIT for version Control |

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