Python (programming language)

Python is a high-level, general-purpose programming language that emphasizes code readability through significant indentation, and is dynamically type-checked and garbage-collected, supporting multiple programming paradigms such as structured, object-oriented, and functional programming. The language was first developed by Guido van Rossum in the late 1980s as a successor to the ABC programming language, with Python 3.0 being a major revision released in 2008 that was not completely backward-compatible with earlier versions. The language has continued to evolve, with the addition of capabilities and keywords for typing starting with Python 3.5, allowing for optional static typing. As of 2026, the Python Software Foundation supports versions 3.10 through 3.14, with earlier versions in the 3.x series having reached end-of-life and no longer receiving security updates. Python has become widely used in the machine learning community and is often taught as an introductory programming language, consistently ranking in the top ten of the TIOBE Programming Community Index since 2003 due to its popularity across 24 platforms.