

01 – About Python

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Scientific Programming in Python (2024)

<https://atticlectures.net/scipro/python-2024/>

Python

- Invented/Created by Guido von Rossum 1989
- Has a **huge community**
- **De facto standard script language for scientific applications** (though Julia is becoming a possible alternative)
- Python is an **interpreted** language
 - **Fast development** (less code, no compilation necessary)
 - Often much **slower than compiled languages** (though, speed critical parts can be written in C/C++/Fortran)

Python 3

- **actively developed**
- “cleaned up” version of Python 2
- Introduced backwards incompatible changes

Python 2

- **Deprecated** (support ended in 2020)
- **don't use it for new projects**

Internet

- Official Python documentation, especially Tutorial and Library Reference: <https://docs.python.org/3/>
- [Real Python](#)
- [Dive into Python](#) (for advance learner, very good for OO-concepts)
- Newsgroups, mailing lists, stackoverflow, etc.
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Books

- M. Lutz: Learning Python (very-very detailed)
- M. Lutz: Programming Python (programming techniques)
- L. Ramalho: Fluent Python (advanced level)
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