

Mastering Python - Everything You Need To Know To Become a Python Master

Video

<https://youtu.be/p15xzjzR9j0?si=dlQg5Y4JpS2EKBZ2>

Notes

Basic Skills

- Fundamental programming concepts
- Basic syntax
- Variables
- Boolean conditions
- Chained conditions
- Operators
- Control flow (if/else)
- Loops and iterators
- Basic data structures (lists, strings, sets, floats, etc)
- Functions
- Mutable and immutable data types
- Common methods

- File IO

Intermediate Skills

- OOP
- Data structures (Queues, hash maps, stacks)
- Comprehensions
- Lambda functions
- *args & **kwargs
- Inheritance
- Advanced class behaviour
- Dunder methods
- PIP
- Environments
- Making your own modules
- Async programming (asyncio library)

Advanced Skills

- Decorators
- Generators
- Context managers
- Metaclasses
- Concurrency and parallelism
- Testing
- Build and manipulate packages
- Cython

Expert/Master Skills

- How Python is built (low-level concepts)

- Where are you using these skills?
 - Decide based on what you are specifically using Python for (scripting, web development, etc)
- Apply these skills to a profession