Python

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Python Learning Path for Beginners and Resources

- Weekly Teaching Schedule
- Pyton Resources: Books, Websites, Tutorials

Installation & Getting Started

- Python Tools
  - Tasks: Installation of Tools
- Python - Quick Guide for Ultimate Python Beginner's

Python Basics Notes

- Python Quizzes – Test Your Knowledge
- Python Language Basics
- Variables
- Data Types
- Operators
- Control Flow
- Defining Functions
  - Advanced function concepts
- Data Structures and Sequences
  - Python Sorting
- Modules and Libraries
- Working with Files
- Exception Handling
- Functions and Methods
  - Built-in Functions
  - String Methods
  - List Methods
  - Dictionary Methods
  - Tuple Methods
  - Set Methods

    - File Methods
- Comprehensions (List and Dictionary)
- Generator Functions
- Decorators
- Classes and Objects
- Regular Expressions
- Python Performance and Best practices
- Data Visualization in Python
- Python Programming for Mathematics
- Python for Kids
- Python in Excel

Modules

- calendar
- random
- Streamlit

Python for Data AnaAlysis

- pandas
- Numpy
- The 5 Most Important Python Libraries You Should Know

Python for Data Visualization

- What is Matplotlib in Python? | Quick Python Tutorial | Python for Data Visualization

https://bokeh.org/

File Handling

Read CSV and XML Files

Python Regular Expressions

Python Utilities

Testing

Facebook Graph API

Projects

- Projects

Glossary

- Glossary for Data Analytics

Tips for Practicing

- **Practice Coding by Hand:** This will help you think through the problem deeply.
- **Focus on Understanding:** Don't just memorize solutions; focus on understanding the underlying concepts.
- **Explain Your Solution:** Try to explain your solution to someone else, or write comments in your code as if you're explaining it.
- **Use Online Platforms:** Platforms like LeetCode, HackerRank, and Codeforces are excellent for finding a wide range of problems to practice.