

Python for Complete Beginners

A 10-Minute Introduction

What You'll Learn Today

- What Python is
- How to run Python code
- Your first program
- Variables & data types
- User input
- A small interactive script

What Is Python?

- Popular general-purpose language
- Used in web, data science, AI, automation
- Simple syntax
- Great for beginners

How to run Python code?

This screenshot shows the Jupyter Notebook interface. At the top, there's a navigation bar with File, Edit, View, Run, Kernel, Settings, Help, and a Trusted button. Below the navigation bar is a toolbar with icons for file operations like New, Open, Save, and Print, along with a dropdown for Markdown. The main content area has a title 'Introduction to the JupyterLab and Jupyter Notebooks'. It contains several sections: 'Experimental Alert' (warning about differences between JupyterLab and Jupyter), 'JupyterLab' (describing it as a next-generation web-based user interface), 'Jupyter Notebooks' (mentioning they are a standard for scientific computing), and 'An example: visualizing data in the notebook' (showing a code cell that generates a scatter plot). There are also 'See Also' links and a note about bundled code.

Jupyter Notebook Online

This screenshot shows the Google Colab interface. At the top, there's a navigation bar with File, Edit, View, Insert, Runtime, Tools, and Help. Below the navigation bar is a toolbar with icons for Commands, Code, Text, Run all, and Copy to Drive. The main content area has a title 'Welcome To Colab!' and a 'Table of contents' sidebar. The sidebar includes sections like Welcome to Colab, Getting started, Data science, Machine learning, More Resources, and Featured examples. The main content area also contains sections for 'Welcome to Colab!', 'Google Colab is available in VS Code!', 'Free Pro Plan for Gemini & Colab for US College Students', and 'Access popular AI models via Google-Colab-AI Without an API Key'. There are also notes about Gemini and Colab being available in VS Code, and a link to the announcement blog.

Google Colab

This screenshot shows the Python website. At the top, there's a navigation bar with Python logo, Donate, Search, and Socialize. Below the navigation bar is a search bar and a 'Donate' button. The main content area features a code example of generating a Fibonacci series up to n. Below the code, there's a section titled 'Functions Defined' with a brief explanation of what functions are and a link to more information. A large blue banner at the bottom says 'Python is a programming language that lets you work quickly and integrate systems more effectively.' with a 'Learn More' link. The footer contains sections for Get Started, Download, Docs, and Jobs.

Get Started
Whether you're new to programming or an experienced developer, it's easy to learn and use Python.
Start with our Beginner's Guide

Download
Python source code and installers are available for download for all versions!
Latest: Python 3.14.0

Docs
Documentation for Python's standard library, along with tutorials and guides, are available online.
docs.python.org

Jobs
Looking for work or have a Python related position that you're trying to hire for? Our relaunched community-run job board is the place to go.
jobs.python.org

python.org

This screenshot shows the Visual Studio Code interface. At the top, there's a navigation bar with File, Docs, Updates, Blog, API, Extensions, MCP, FAQ, and a Download button. Below the navigation bar is a search bar and a note about Version 1.106. The main content area shows a code editor with a file named 'MailList.tsx'. The code is a component for managing mail lists. To the right of the code editor is a 'GitHub Copilot Cloud Agent' panel. The panel has a 'Refactoring MailList component...' section with some code snippets and a note about updating the component. It also shows a 'Please update the MailList component to abstract mail list items into their own standalone component' message. At the bottom right, there's a note about delegating to cloud agents and a GitHub Copilot Cloud Agent icon.

VS Code

Your First Program

- `print("Hello, world!")`

Variables

- name = "Alice"
- age = 20
- height = 1.65

User Input

- `your_name = input("What is your name?")`
- `print("Nice to meet you,", your_name)`

Mini Program

- `age = int(input("How old are you?"))`
- `future_age = age + 10`
- `print("In 10 years, you will be", future_age)`

Next Steps

- conditions: `if` statement
- loops: `for` and `while`
- build small projects like a calculator or a number-guessing game