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Python Tutorial

Welcome to the Python Tutorial. This guide will help you get started with Python programming on your MacBook.

Getting Started

1. Create a Folder for the Tutorial Open your terminal and create a new folder for the tutorial:

```
mkdir ~/Tutorial/Macbook-Python
cd ~/Tutorial/Macbook-Python
```

- 2. **Install Python** If you don't have Python installed, download and install it from the official website:
 - Download Python

```
brew install python
```

- 3. **Install Visual Studio Code** Download and install Visual Studio Code (VS Code) for a powerful and lightweight code editor:
 - Download VS Code

```
brew install --cask visual-studio-code
```

After installing, you can open VS Code from the terminal:

```
code .
```

2. Set Up a Virtual Environment Create a virtual environment to manage your project dependencies:

```
python3 -m venv venv
source venv/bin/activate
```

3. Install Required Packages Install any necessary packages using pip:

```
pip install <package-name>
```

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4. Start Coding Create a new Python file and start coding:

```
touch main.py
open main.py
```

Resources

- Python Official Documentation
- Virtual Environments Guide

Happy coding!

Troubleshooting

Python Installation Issues

- 1. **Python Command Not Found** If you receive a "command not found" error when trying to run Python:
 - Ensure Python is installed correctly by running:

```
python3 --version
```

• If not installed, reinstall Python using Homebrew:

```
brew install python
```

- 2. Pip Not Working If pip is not recognized:
 - Ensure pip is installed:

```
python3 -m ensurepip --upgrade
```

• Upgrade pip to the latest version:

```
python3 -m pip install --upgrade pip
```

VS Code Installation Issues

- 1. **VS Code Command Not Found** If the code command is not recognized:
 - Ensure VS Code is installed correctly.

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- Install the code command in PATH:
 - Open VS Code, press Cmd+Shift+P, and type Shell Command: Install 'code' command in PATH.
- 2. **Extensions Not Installing** If you have trouble installing extensions:
 - Check your internet connection.
 - Try installing extensions from the command line:

```
code --install-extension <extension-id>
```

- 3. **VS Code Not Opening** If VS Code does not open:
 - Try launching it from the terminal:

```
code .
```

• Reinstall VS Code if the issue persists.

For further assistance, refer to the VS Code Documentation.