Getting Started with Python - User Guide

Welcome

Welcome to the Python Starter Kit! This guide will walk you through setting up your environment, running scripts, and exploring Python basics.

Step 1: Install Python

Windows

1. Run the `Install_Python_Windows.bat` file located in the `scripts/` folder.

2. Follow the prompts to install Python and add it to your PATH.

3. Verify the installation by opening Command Prompt and typing:

```
python --version
```

Linux

1. Open a terminal and run:

```
./scripts/Install_Python_Linux.bash
```

2. Verify Python installation by typing:

```
python3 --version
```

macOS

1. Open a terminal and run:

```
./scripts/Install_Python_Mac.sh
```

2. Verify installation by typing:

```
python3 --version
```

Step 2: Install Visual Studio Code

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1. Run the `Install_VisualStudioCode.py` script:

```
python scripts/Install_VisualStudioCode.py
```

2. This will download and install VS Code for you.

Step 3: Set Up a Virtual Environment (Optional)

1. Create a virtual environment:

```
python -m venv myenv
```

2. Activate it:

- **Windows**:

```
myenv\Scripts\activate
```

- **Linux/macOS**:

```
source myenv/bin/activate
```

Step 4: Explore the Scripts

1. Navigate to the `scripts/` folder.

2. Run example scripts like `main_script.py` to learn Python basics.

```
python scripts/main_script.py
```

Step 5: Write Your First Program

1. Open VS Code and create a file `hello_world.py`.

2. Write:

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

3. Save and run:

```
python hello_world.py
```

Step 6: Additional Resources

- [Python Official Docs](https://docs.python.org/3/)

- [VS Code Docs](https://code.visualstudio.com/docs)

```
python hello_world.py
```