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1

Python

1.1 Python

Python 3.12

1.1.1 Windows

```
# winget
winget install Python.Python.3.12

# Microsoft Store
# Microsoft Store "Python 3.12"
```

1.1.2 macOS

```
# Homebrew
brew install python@3.12

# pyenv
pyenv install 3.12.8
pyenv global 3.12.8
```

1.1.3 Linux

```
# Ubuntu/Debian
sudo apt update
sudo apt install python3.12 python3.12-venv

# Fedora
sudo dnf install python3.12

# Arch Linux
sudo pacman -S python
```

1.2

1.2.1 uv ()

uv Python

1.2.1.1

```
# Linux/macOS
curl -LsSf https://astral.sh/uv/install.sh | sh

# Windows
powershell -c "irm https://astral.sh/uv/install.ps1 | iex"
```

1.2.1.2

```
#
uv init my-project
cd my-project

#
uv venv

#
uv add requests pandas

#
```

```
uv run python script.py
uv run pytest
```

1.2.2 Poetry ()

Poetry

1.2.2.1

```
curl -sSL https://install.python-poetry.org | python3 -
```

1.2.2.2

```
#
poetry new my-project
cd my-project

#
poetry add requests pandas

#
poetry install

#
poetry run python script.py
```

1.2.3 Miniforge ()

Miniforge conda-forge conda

1.2.3.1

```
# https://github.com/conda-forge/miniforge
#
bash Miniforge3-Linux-x86_64.sh
```

1.2.3.2

```
#  
conda create -n myenv python=3.12  
conda activate myenv  
  
#  
conda install pandas numpy matplotlib
```

1.3

1. Python 3.12
2. uv
3. pandas
4. uv run Python

1.4

[Git](#) [GitHub](#)