

Creating & Managing Virtual Environments (venv)

Step 1: Create a Virtual Environment

1. Navigate to your project directory.

2. Run:

```
...  
  
python -m venv venv  
...
```

Step 2: Activate the Virtual Environment

- Windows:

```
...  
  
venv\Scripts\activate  
...
```

- Mac/Linux:

```
...  
  
source venv/bin/activate  
...
```

Step 3: Install Dependencies

1. Install required packages:

```
...  
  
pip install -r requirements.txt  
...
```

Step 4: Best Practices

1. Keep a `requirements.txt` file updated:

```
...  
  
pip freeze > requirements.txt  
...
```