**Creating a Python Virtual Environment for a Project**

Here are simple, step-by-step instructions to create a Python virtual environment for your project:

**Using venv (Python's built-in virtual environment module)**

1. **Navigate to your project directory** in your terminal:
2. cd path/to/your/project
3. **Create the virtual environment**:
4. python -m venv venv

This creates a directory called venv in your project folder containing the virtual environment.

1. **Activate the virtual environment**:
   * On Windows:
   * venv\Scripts\activate
   * On macOS or Linux:
   * source venv/bin/activate
2. **Verify it's activated** - you should see (venv) at the beginning of your command prompt.
3. **Update pip** (recommended):
4. pip install --upgrade pip
5. **Install your project dependencies**:
6. pip install package\_name

Or if you have a requirements.txt file:

pip install -r requirements.txt

1. **To deactivate** the virtual environment when you're done:
2. deactivate

That's it! Your isolated Python environment is ready for development.