

UV Python Package Manager - Notes

1. Creating a New Project

To create a new project using UV, run:

```
uv init project-name
```

This command sets up the directory and scaffolds the project structure.

2. Navigating to the Project Directory

Change into the newly created project folder using:

```
cd project-name
```

3. Running a Script and Auto Virtual Environment Creation

When you run:

```
uv run main.py
```

UV automatically creates a virtual environment in a '.venv' folder.

4. Installing Packages

To install packages and add them to your environment, use:

```
uv add package-name
```

5. Building the Project

To build your Python packages into source distributions and wheels:

```
uv build
```

6. Viewing Available Commands

You can view all available UV commands using:

```
uv
```

7. Temporary Package Execution

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To run a script with temporary packages (not permanently installed):

```
uv run --with package1 --with package2 script.py
```

8. Script-level Dependency Declaration

To add dependencies to a specific script's requirements specification:

```
uv add --script file.py package1 package2
```