Cheatography

UV Cheatsheet Keyboard Shortcuts

by Charles Duarte via cheatography.com/206388/cs/46270/

Installation

Linux & macOS

curl -LsSf https://astral.sh/uv/install.sh | sudo sh

Windows (PowerShell)

powershell -ExecutionPolicy ByPass -c "irm https://astral.sh/uv/install.ps1 | iex"

Homebrew (macOS)

brew install uv

Basic Commands

Check Installed Version

```
uv version
```

Get Help

```
uv help uv --help
```

Project Initialization

Create a New Project

```
uv init projec t-name     # Basic projec
t
```

Project Management

uv init — initialize project (creates pyproject.toml, .venv)

uv add [pkg], --dev — add dependencies

uv lock, uv sync — lock & sync to universal uv.lock file gist.github.com docs.astral.sh +3 horoscopo-astral.com +3 docs.astral.sh +3 docs.astral.sh +1 docs.astral.sh +1

Virtual Environments

uv venv [--python X.Y] — create venv (downloads Python if missing)

uv python install …, uv python pin X.Y — install and pin Python versions

Script Support

Inline script metadata (# /// script …) for dependencies & Python version

uv run --script …, uv add --script …, uv lock --script … for isolated script execution

Tool Execution

uvx <tool> … – run tools in ephemeral envs

uv tool install <tool> – globally install tools like pipx

pip-Compatible Interface

uv pip install, sync, compile, freeze, show, tree, etc. — speedier, pip-compatible

Lockfiles

uv.lock (universal) captures exact package versions across platforms

.lock next to script for script-specific dependencies

Extras & Utilities

uv self update, uv cache clean/prune, uv python dir, uv tool dir, shell completions

Typical Workflow

```
uv init myproj # start project
uv add requests --dev # add dependencies
uv lock # generate uv.lock
uv sync # sync venv
uv run pytest # run tests in environment
uv tool install black # globally install tools
uv pip compile reqs.in # generate platform--
independent reqs
uv pip sync reqs.txt # sync environments
```

If you're migrating from a requirements.txt file

```
# Add all dependencies from requir eme
 nts.txt.
uv add -r requirements.txt -c constraints.txt
```

Updating Dependencies To upgrade a package

```
uv lock --upgrade-package requests
```

By **Charles Duarte**
cheatography.com/charles-duarte/

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