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uv

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The pip interface

uv provides a drop-in replacement for common ``pip``, ``pip-tools``, and ``virtualenv`` commands. These commands work directly with the virtual environment, in contrast to uv's primary interfaces where the virtual environment is managed automatically. The ``uv pip`` interface exposes the speed and functionality of uv to power users and projects that are not ready to transition away from ``pip`` and ``pip-tools``.

The following sections discuss the basics of using ``uv pip``:

- * [Creating and using environments](environments/)
- * [Installing and managing packages](packages/)
- * [Inspecting environments and packages](inspection/)
- * [Declaring package dependencies](dependencies/)
- * [Locking and syncing environments](compile/)

Please note these commands do not `_exactly_` implement the interfaces and behavior of the tools they are based on. The further you stray from common workflows, the more likely you are to encounter differences. Consult the [pip-compatibility guide](compatibility/) for details.

Important

uv does not rely on or invoke pip. The pip interface is named as such to highlight its dedicated purpose of providing low-level commands that match pip's interface and to separate it from the rest of uv's commands which operate at a higher level of abstraction.

August 8, 2024

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