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- * [`cli`](../../dev-guide/api/conda_env/cli/index.html)`
- * [`installers`](../../dev-guide/api/conda_env/installers/index.html)`

- * [`__](../../index.html)`
- * [User guide](../index.html)
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- * Installing...

Installing with conda#

Conda packages can be installed by running the following command:

```
conda install <package>
```

When conda installs a package, it is automatically added to your active environment. These packages are collections of files and directories that make up everything you need to use that particular library or software. For Python packages, these are primarily Python files that can be imported into other Python applications, but for compiled software packages, such as ``ffmpeg``, these are typically binary executables you use directly on your computer.

Note

If you would like to learn more about how environments are structured, head over to [\[conda environments\]\(environments.html\)](#).

Below is a more precise overview of everything that happens during the installation process for a single package:

- * Currently configured channels (e.g. ``defaults`` or ``conda-forge``) are read in order of priority
- * Repodata for these configured channels is downloaded and read
- * The repodata is searched for the package, starting with the highest priority channel first
- * Once the package is found, conda makes a separate download request and then installs it
- * This process then repeats for each of the package's dependencies, if there are any

A graphic illustration of this process is shown below:

[!\[../_images/installing-with-conda.png\]\(../_images/installing-with-conda.png\)](#)

Conda update versus conda install#

``conda update`` updates packages to the latest compatible version. ``conda install`` can be used to install any version.

Example:

* If Python 2.7.0 is currently installed, and the latest version of Python 2 is 2.7.5, then ``conda update python`` installs Python 2.7.5. It does not install Python 3.

* If Python 3.7.0 is currently installed, and the latest version of Python is 3.9.0, then ``conda install python=3`` installs Python 3.9.0.

Conda uses the same rules for other packages. ``conda update`` always installs the highest version with the same major version number, whereas ``conda install`` always installs the highest version.

Installing conda packages offline#

To install conda packages offline, run: ``conda install /path-to-package/package-filename.tar.bz2``

If you prefer, you can create a `/tar/` archive file containing many conda packages and install them all with one command: ``conda install /packages-path/packages-filename.tar``

Note

If an installed package does not work, it may be missing dependencies that need to be resolved manually.

Installing packages directly from the file does not resolve dependencies.

Installing conda packages with a specific build number#

If you want to install conda packages with the correct package specification, try ``pkg_name=version=build_string``. Read more about [build strings and package naming conventions](https://docs.conda.io/projects/conda-build/en/latest/concepts/package-naming-conv.html#index-2). Learn more about [package specifications and metadata](https://docs.conda.io/projects/conda-build/en/latest/resources/package-spec.html#package-metadata).

For example, if you want to install llvmlite 0.31.0dev0 on Python 3.7.8, you would enter:

```
conda install -c numba/label/dev llvmlite=0.31.0dev0=py37_8
```

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[__Edit on GitHub](https://github.com/conda/conda/edit/main/docs/source/user-guide/concepts/installing-with-conda.rst)

[__Show Source](../../_sources/user-guide/concepts/installing-with-

conda.rst.txt)

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