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# Conda Documentation

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Conda is a cross-platform, Python-agnostic binary package manager. It is the package manager used by [Anaconda](#) installations, but it may be used for other systems as well. Conda makes environments first-class citizens, making it easy to create independent environments even for C libraries. Conda is written entirely in Python, and is BSD licensed open source.



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# Installation

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Conda is a part of the [Anaconda distribution](#). You can also download a minimal installation that only includes conda and its dependencies, called [Miniconda](#).





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## Getting Started

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If you install Anaconda, you will already have hundreds of packages installed. You can see what packages are installed by running

```
$ conda list
```

to see all the packages that are available, use

```
$ conda search
```

and to install a package, use

```
$ conda install <package-name>
```

The real power of conda comes from its ability to manage environments. In conda, an environment can be thought of as a completely separate installation. Conda installs packages into environments efficiently using [hard links](#) by default when it is possible, so environments are space efficient, and take seconds to create.

The default environment, which conda itself is installed into is called `root`. To create another environment, use the `conda create` command. For instance, to create an environment with the IPython notebook and NumPy 1.6, which is older than the version that comes with Anaconda by default, you would run

```
$ conda create -n numpy16 ipython-notebook numpy=1.6
```

This creates an environment called `numpy16` with the latest version of the IPython notebook, NumPy 1.6, and their dependencies.

We can now activate this environment, use

```
# On Linux and Mac OS X
$ source activate numpy16

# On Windows
> activate numpy16
```

This puts the bin directory of the `numpy16` environment in the front of the `PATH`, and sets it as the default environment for all subsequent conda commands.

To go back to the root environment, use

```
# On Linux and Mac OS X
$ source deactivate

# On Windows
> deactivate
```



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## Building Your Own Packages

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You can easily build your own packages for conda, and upload them to [anaconda.org](https://anaconda.org), a free service for hosting packages for conda, as well as other package managers. To build a package, create a recipe. See [http://github.com/conda/conda-recipes](https://github.com/conda/conda-recipes) for many example recipes, and <http://docs.continuum.io/conda/build.html> for documentation on how to build recipes.

To upload to [anaconda.org](https://anaconda.org), create an account. Then, install the `anaconda-client` and login

```
$ conda install anaconda-client
$ anaconda login
```

Then, after you build your recipe

```
$ conda build <recipe-dir>
```

you will be prompted to upload to [anaconda.org](https://anaconda.org).

To add your [anaconda.org](https://anaconda.org) channel, or the channel of others to conda so that `conda install` will find and install their packages, run

```
$ conda config --add channels https://conda.anaconda.org/username
```

(replacing `username` with the user name of the person whose channel you want to add).



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### Getting Help

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The documentation for conda is at <http://conda.pydata.org/docs/>. You can subscribe to the [conda mailing list](#). The source code and issue tracker for conda are on [GitHub](#).



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## Contributing

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Contributions to conda are welcome. Just fork the GitHub repository and send a pull request.

To develop on conda, the easiest way is to use `python setup.py develop` in your root conda environment. This will install a link to the local conda source code, so that any change you make to conda will be instantly available. To undo this, run `python setup.py develop -u`. If you are worried about breaking your conda installation, you can install a separate instance of [Miniconda](#) and work off it. This is also the only way to test conda in both Python 2 and Python 3, as conda can only be installed into a root environment.

Run the conda tests by `conda install pytest` and then running `py.test` in the conda directory. The tests are also run by Travis CI when you make a pull request.