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Getting started with conda

Conda is a powerful package manager and environment manager that you use with command line commands at the Anaconda Prompt for Windows, or in a terminal window for macOS or Linux.

This 20-minute guide to getting started with conda lets you try out the major features of conda. You should understand how conda works when you finish this guide.

SEE ALSO: Getting started with Anaconda Navigator, a graphical user interface that lets you use conda in a web-like interface without having to enter manual commands. Compare the Getting started guides for each to see which program you prefer.

Before you start

You should have already installed Anaconda.

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 MINUTES

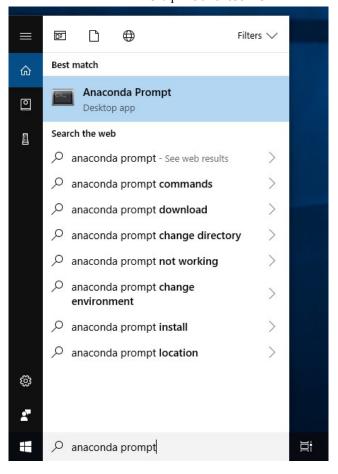
TOTAL TIME: 20 MINUTES

Starting conda

Windows

From the Start menu, search for and open "Anaconda Prompt."

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On Windows, all commands below are typed into the Anaconda Prompt window.

MacOS

• Open Launchpad, then click the terminal icon.

On macOS, all commands below are typed into the terminal window.

Linux

• Open a terminal window.

On Linux, all commands below are typed into the terminal window.

Managing conda

Verify that conda is installed and running on your system by typing:

conda --version

Conda displays the number of the version that you have installed. You do not need to

Getting started with conda — conda 4.13.0.post56+8c835dd3b docum... https://navigate to the Anaconda directory.

EXAMPLE: conda 4.7.12

Note

If you get an error message, make sure you closed and re-opened the terminal window after installing, or do it now. Then verify that you are logged into the same user account that you used to install Anaconda or Miniconda.

Update conda to the current version. Type the following:

```
conda update conda
```

Conda compares versions and then displays what is available to install.

If a newer version of conda is available, type y to update:

```
Proceed ([y]/n)? y
```

Tip

We recommend that you always keep conda updated to the latest version.

Managing environments

Conda allows you to create separate environments containing files, packages, and their dependencies that will not interact with other environments.

When you begin using conda, you already have a default environment named base. You don't want to put programs into your base environment, though. Create separate environments to keep your programs isolated from each other.

1. Create a new environment and install a package in it.

We will name the environment snowflakes and install the package BioPython. At the Anaconda Prompt or in your terminal window, type the following:

```
conda create --name snowflakes biopython
```

Conda checks to see what additional packages ("dependencies") BioPython will need, and asks if you want to proceed:

```
Proceed ([y]/n)? y
```

Type "y" and press Enter to proceed.

- 2. To use, or "activate" the new environment, type the following:
 - Windows: conda activate snowflakes
 - macOS and Linux: conda activate snowflakes

Note

conda activate only works on conda 4.6 and later versions.

For conda versions prior to 4.6, type:

- Windows: activate snowflakes
- macOS and Linux: source activate snowflakes

Now that you are in your snowflakes environment, any conda commands you type will go to that environment until you deactivate it.

3. To see a list of all your environments, type:

```
conda info --envs
```

A list of environments appears, similar to the following:

```
conda environments:

base     /home/username/Anaconda3
snowflakes * /home/username/Anaconda3/envs/snowflakes
```

Tip

The active environment is the one with an asterisk (*).

4. Change your current environment back to the default (base): conda activate

Note

For versions prior to conda 4.6, use:

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 - Windows: activate
 - macOS, Linux: source activate

1 Tip

When the environment is deactivated, its name is no longer shown in your prompt, and the asterisk (*) returns to base. To verify, you can repeat the conda info --envs command.

Managing Python

When you create a new environment, conda installs the same Python version you used when you downloaded and installed Anaconda. If you want to use a different version of Python, for example Python 3.5, simply create a new environment and specify the version of Python that you want.

1. Create a new environment named "snakes" that contains Python 3.9:

```
conda create --name snakes python=3.9
```

When conda asks if you want to proceed, type "y" and press Enter.

- 2. Activate the new environment:
 - Windows: conda activate snakes
 - macOS and Linux: conda activate snakes

Note

conda activate only works on conda 4.6 and later versions.

For conda versions prior to 4.6, type:

- Windows: activate snakes
- macOS and Linux: source activate snakes
- 3. Verify that the snakes environment has been added and is active:

```
conda info --envs
```

Conda displays the list of all environments with an asterisk (*) after the name of the active environment:

The active environment is also displayed in front of your prompt in (parentheses) or [brackets] like this:

```
(snakes) $
```

4. Verify which version of Python is in your current environment:

```
python --version
```

5. Deactivate the snakes environment and return to base environment: conda activate

Note

For versions prior to conda 4.6, use:

- Windows: activate
- macOS, Linux: source activate

Managing packages

In this section, you check which packages you have installed, check which are available and look for a specific package and install it.

- 1. To find a package you have already installed, first activate the environment you want to search. Look above for the commands to activate your snakes environment.
- 2. Check to see if a package you have not installed named "beautifulsoup4" is available from the Anaconda repository (must be connected to the Internet):

```
conda search beautifulsoup4
```

Conda displays a list of all packages with that name on the Anaconda repository, so we know it is available.

3. Install this package into the current environment:



4. Check to see if the newly installed program is in this environment:

conda list				

More information

- Conda cheat sheet
- Full documentation--- https://conda.io/docs/
- Free community support--- https://groups.google.com/a/anaconda.com/forum/#!forum/anaconda
- Paid support options--- https://www.anaconda.com/support/

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