Using Anaconda to install third-party package

mac

Maximilians—MBP:python—blockchain mschwarzmueller\$ pip install pycrypto
Requirement already satisfied: pycrypto in /anaconda3/lib/python3.6/site—packages
You are using pip version 9.0.1, however version 10.0.0 is available.
You should consider upgrading via the 'pip install —upgrade pip' command.
Maximilians—MBP:python—blockchain mschwarzmueller\$

windows often painful

Maximilians—MBP:python—blockchain mschwarzmueller\$ python —m pip install pycrypto Requirement already satisfied: pycrypto in /anaconda3/lib/python3.6/site—packages You are using pip version 9.0.1, however version 10.0.0 is available. You should consider upgrading via the 'pip install —upgrade pip' command. Maximilians—MBP:python—blockchain mschwarzmueller\$

Maximilians-MBP:python-blockchain mschwarzmueller\$ python -m pip install pycrypto Requirement already satisfied: pycrypto in /anaconda3/lib/python3.6/site-packages You are using pip version 9.0.1, however version 10.0.0 is available. You should consider upgrading via the 'pip install --upgrade pip' command. Maximilians-MBP:python-blockchain mschwarzmueller\$ source activate pycoin [Pycoin] Maximilians-MBP:python-blockchain mschwarzmueller\$ ■



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Windows

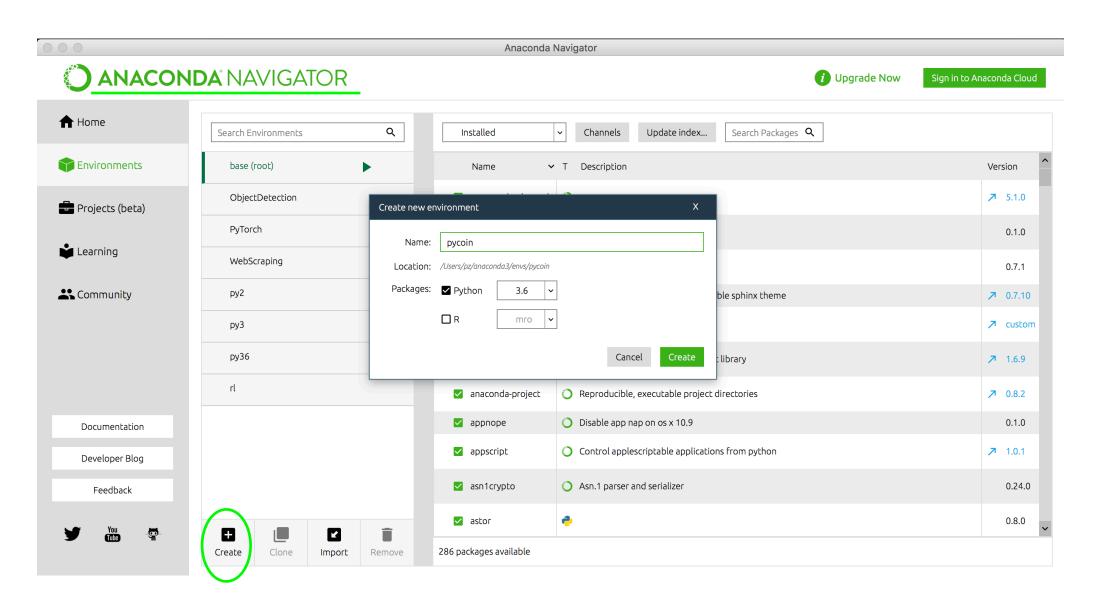


macOS

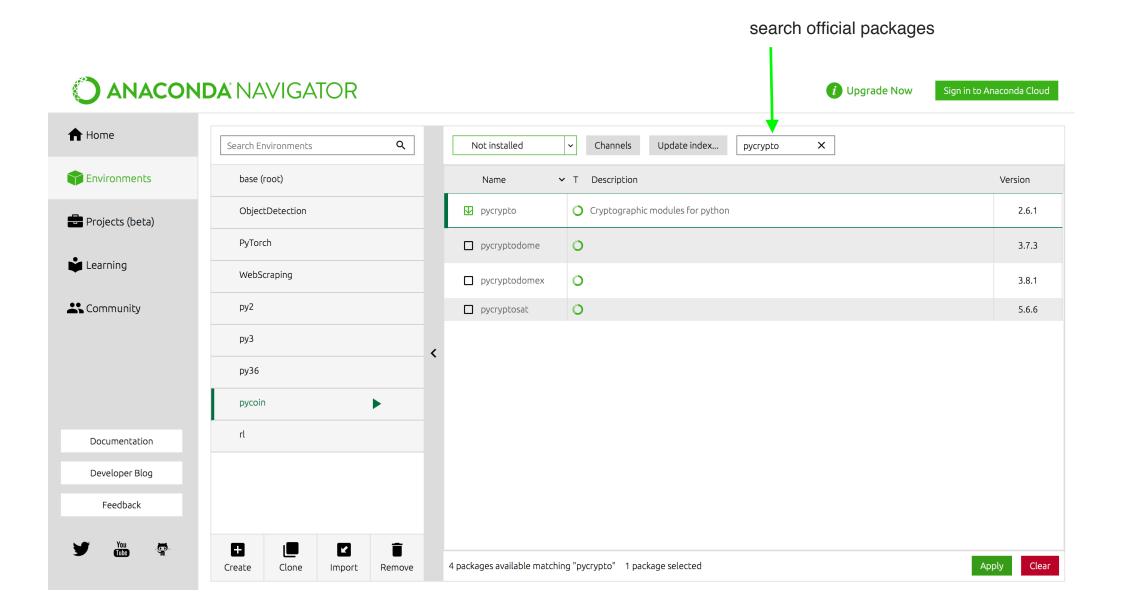


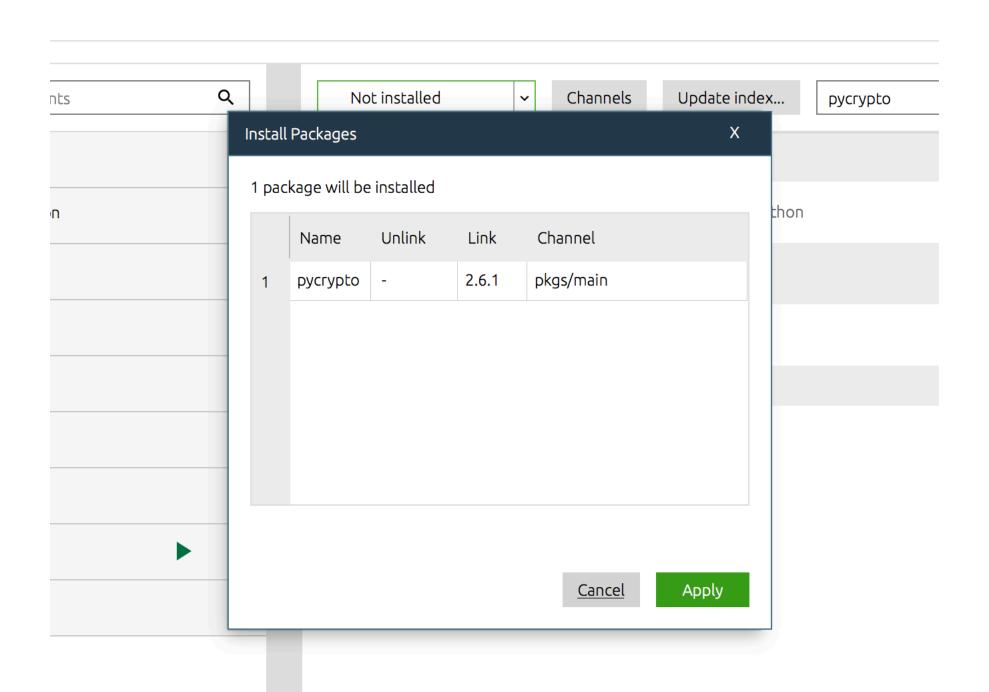
A Linux

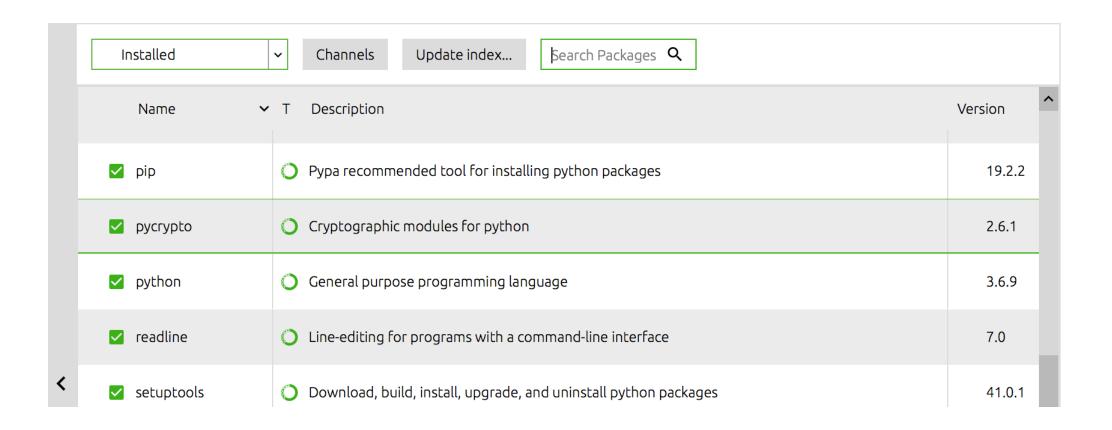
Anaconda 5.1 For macOS Installer

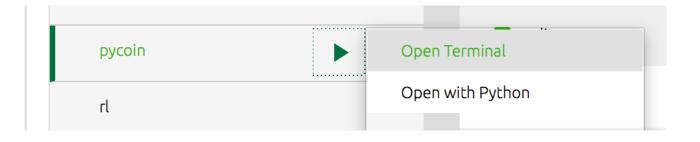


create virtual env









open terminal

```
pz — a.tool — bash --init-file /dev/fd/63 — 80×24

Last login: Tue Aug 27 10:34:25 on console
/Users/pz/.anaconda/navigator/a.tool; exit;
pz ~ $ /Users/pz/.anaconda/navigator/a.tool; exit;
(pycoin) bash-3.2$
```

open with Python

```
Last login: Tue Aug 27 12:19:05 on ttys001
/Users/pz/.anaconda/navigator/a.tool; exit;
pz ~ $ /Users/pz/.anaconda/navigator/a.tool; exit;
Python 3.6.9 | Anaconda, Inc.| (default, Jul 30 2019, 13:42:17)
[GCC 4.2.1 Compatible Clang 4.0.1 (tags/RELEASE_401/final)] on darwin
Type "help", "copyright", "credits" or "license" for more information.
>>>
```

Using Virtual Environments

Virtual Environments allow you to only install certain Python packages for some projects - instead of globally on your machine. This is helpful when working with multiple projects where you might want to use a different set of packages (=> dependencies) for every project.

You can easily create a new virtual environment in the Anaconda Navigator (as shown in the last lecture). Read more here: https://docs.anaconda.com/anaconda/navigator/getting-started#navigator-managing-environments

After creating an environment, you need to activate it. There are two ways of doing that:

- 1. Execute source activate NAME_OF_ENVIRONMENT (e.g. source activate pycoin) on macOS and Linux or just activate NAME_OF_ENVIRONMENT (e.g. activate pycoin) on Windows. This might fail for Windows though. To fix it, please see this thread: https://github.com/ContinuumIO/anacondaissues/issues/2533
- 2. Alternatively, you use the Anaconda Navigator to launch a terminal/ command prompt that already uses your new virtual environment: Click on the green "play" button next to your environment name and choose the option to launch a new terminal/ command prompt there. This will be a normal terminal/ command prompt, so after navigating into your project folder (via the cd command), you can use it just as shown in the videos.

https://docs.anaconda.com/ anaconda/navigator/gettingstarted#navigator-managingenvironments

https://github.com/ContinuumIO/anaconda-issues/issues/2533

Use Pycryptodome instead of PyCrypto

Instead of the "PyCrypto" package we installed, you can also use the "Pycryptodome" package

(http://pycryptodome.readthedocs.io/en/latest/index.html) now.

Especially on Windows, "PyCrypto" can fail to run,

"Pycryptodome" is a nice drop-in replacement (i.e. no code changes required) that should solve any issues you might have.