Installation and Configuration

Conda VS Anaconda

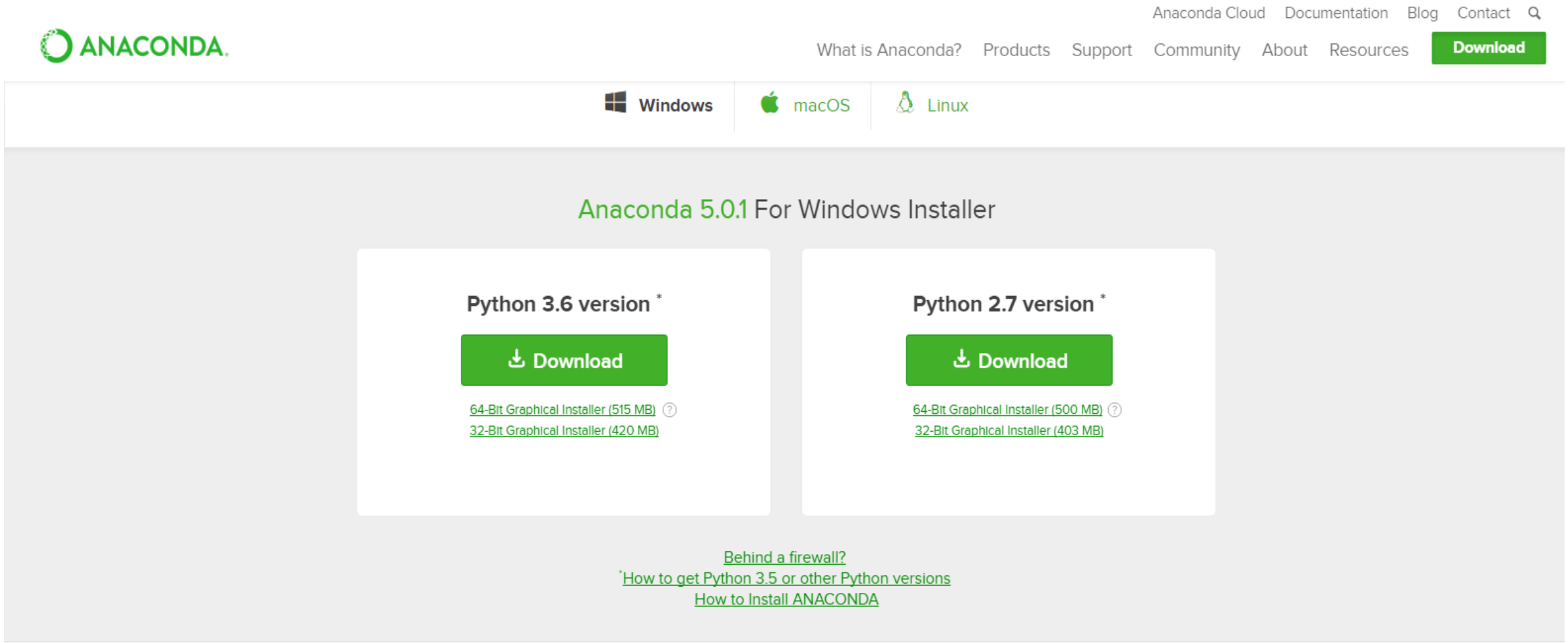
Package, dependency and environment management for any language—Python, R, Ruby, Lua, Scala, Java, JavaScript, C/ C++, FORTRAN

- Open source package management system and environment management system that runs on Windows, macOS and Linux.
- Quickly installs, runs and updates packages and their dependencies.
- Easily creates, saves, loads and switches between environments on your local computer. It **was created for Python programs**, but it can package and distribute software for any language.
- **As a package manager** helps you find and install packages.
- If you need a package that requires a different version of Python, you do not need to switch to a different environment manager, because conda is also **an environment manager**. With just a few commands, you can set up a totally separate environment to run that different version of Python, while continuing to run your usual version of Python in your normal environment.

Conda VS Anaconda

A set of about a hundred packages including conda, numpy, scipy, ipython notebook, and so on.

Download https://www.anaconda.com/download/

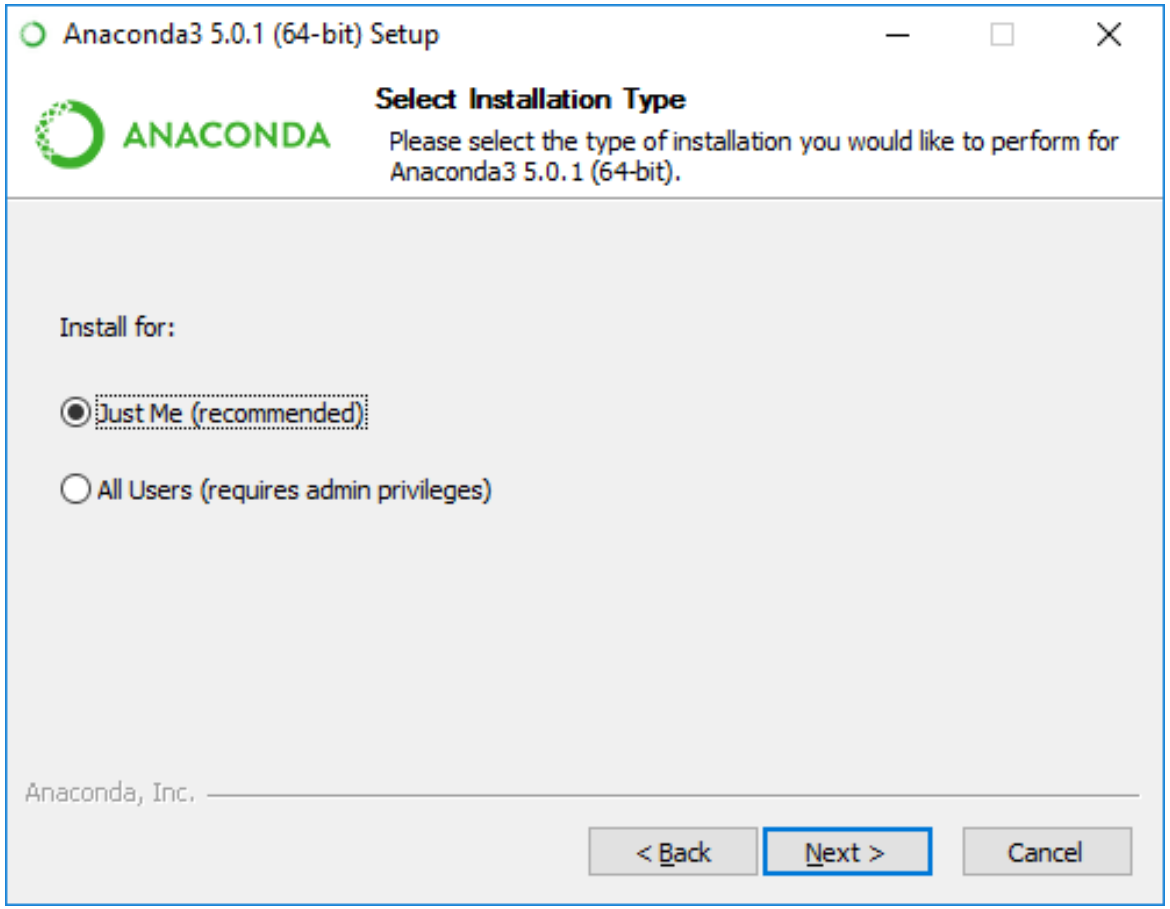


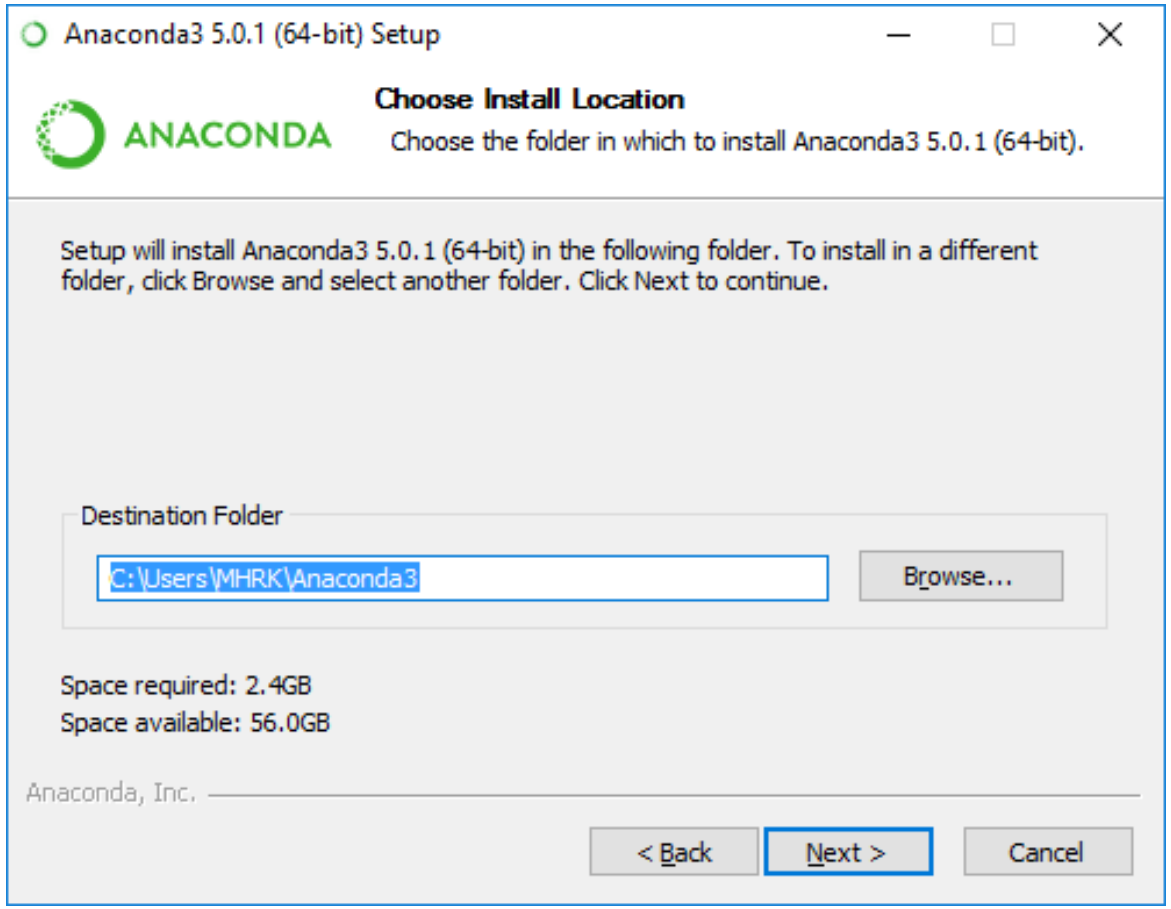
Installation

Anaconda2-5.0.1
-Windows-x86_64
.exe

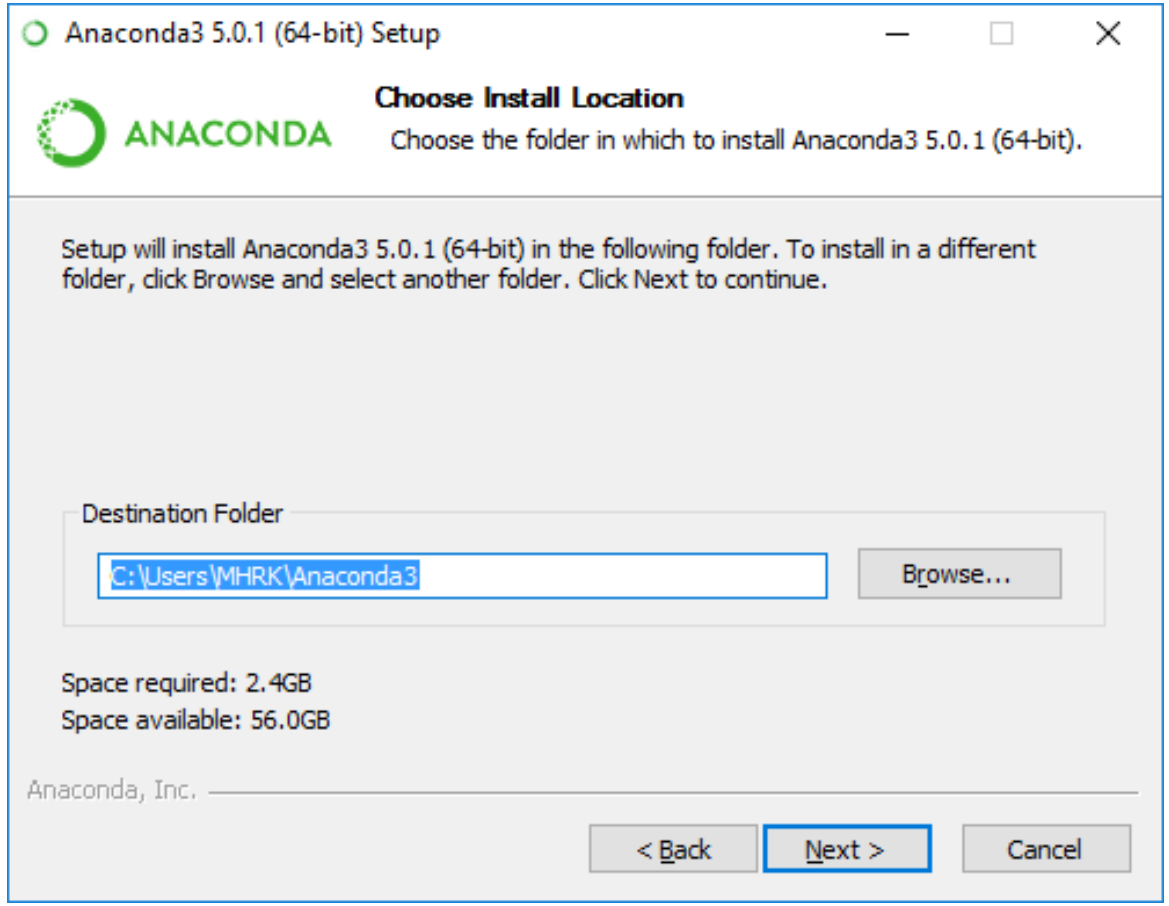
Anaconda3-5.0.1
-Windows-x86_64
.exe

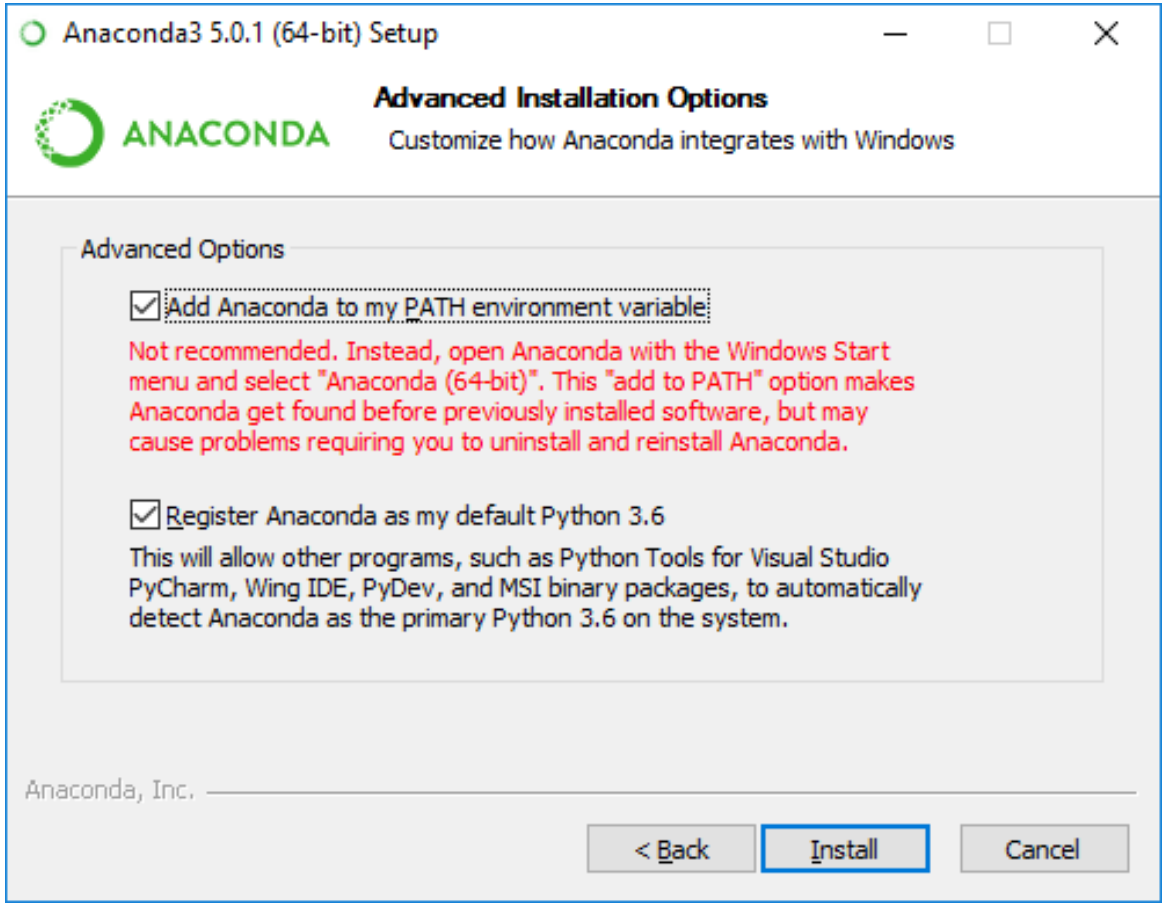
Installation



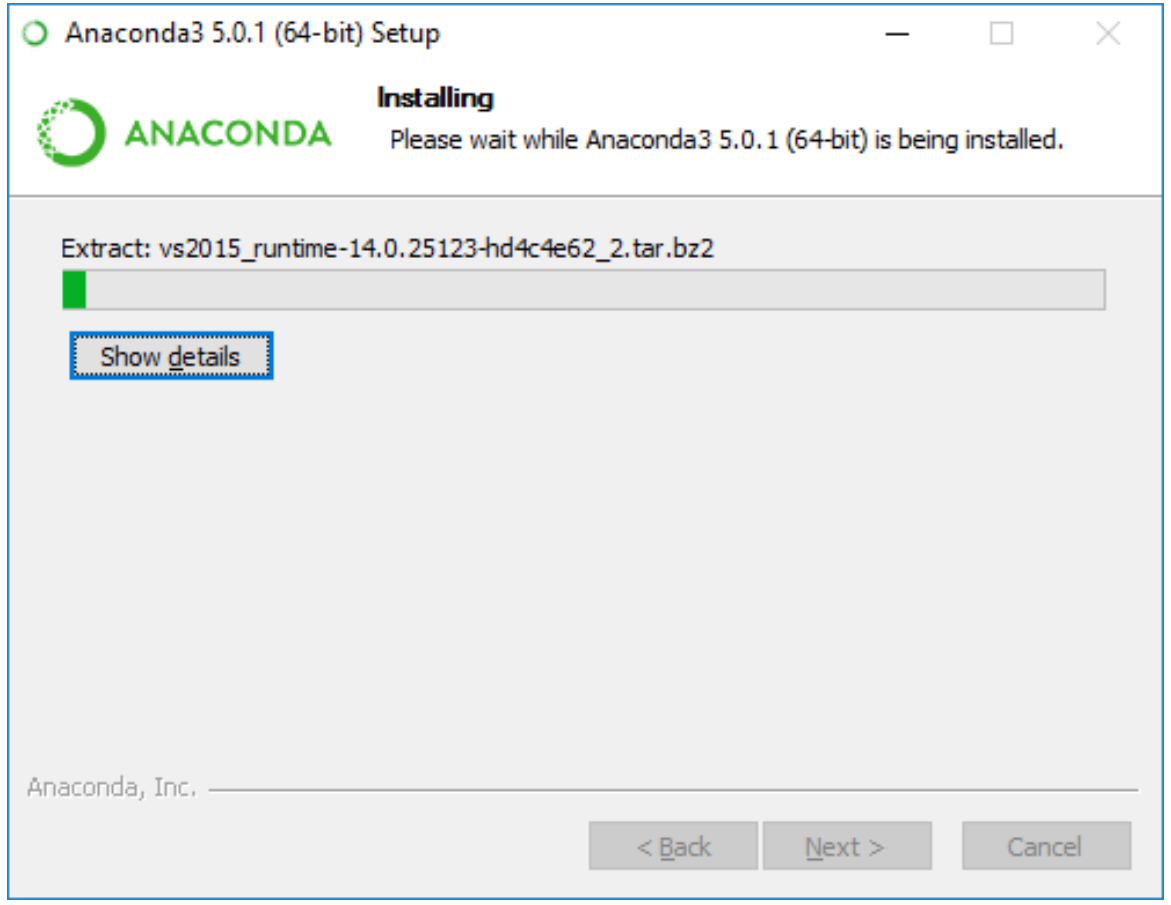


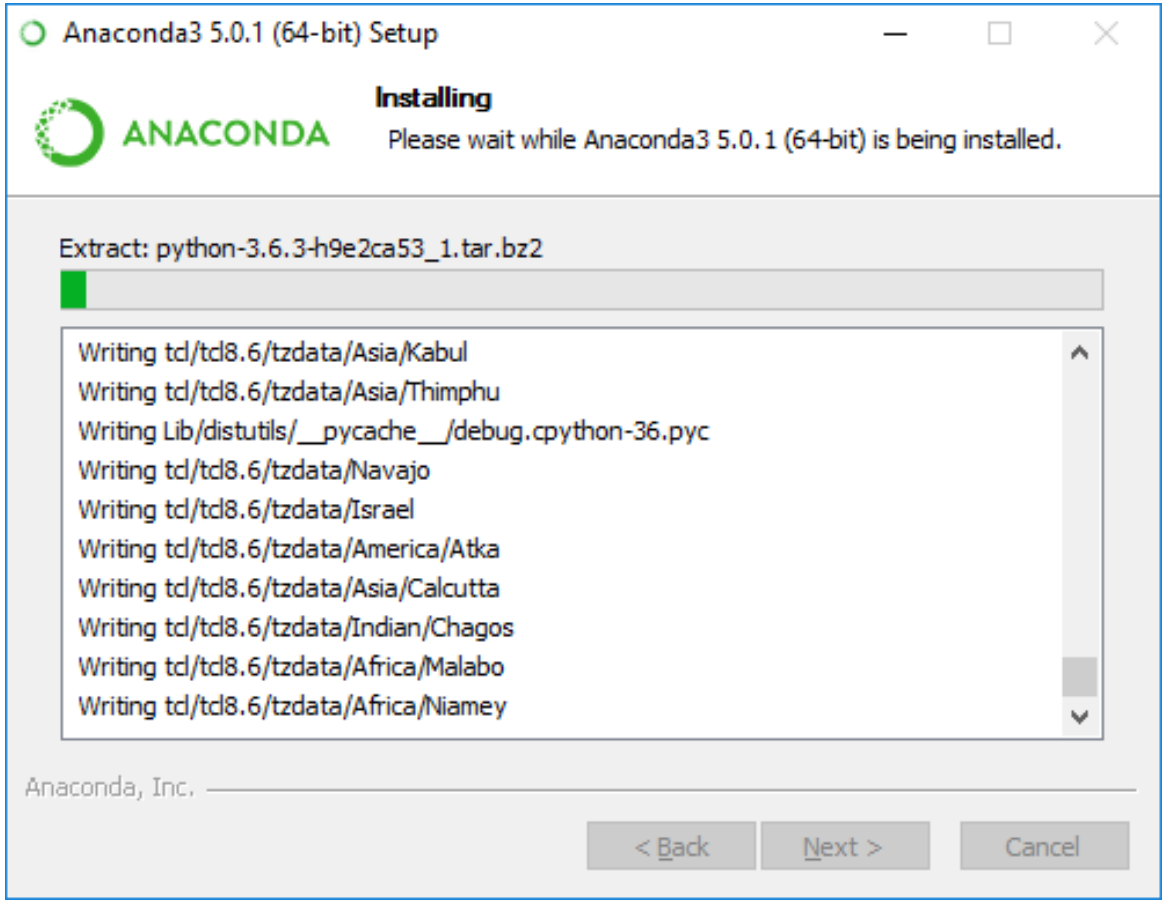
Installation



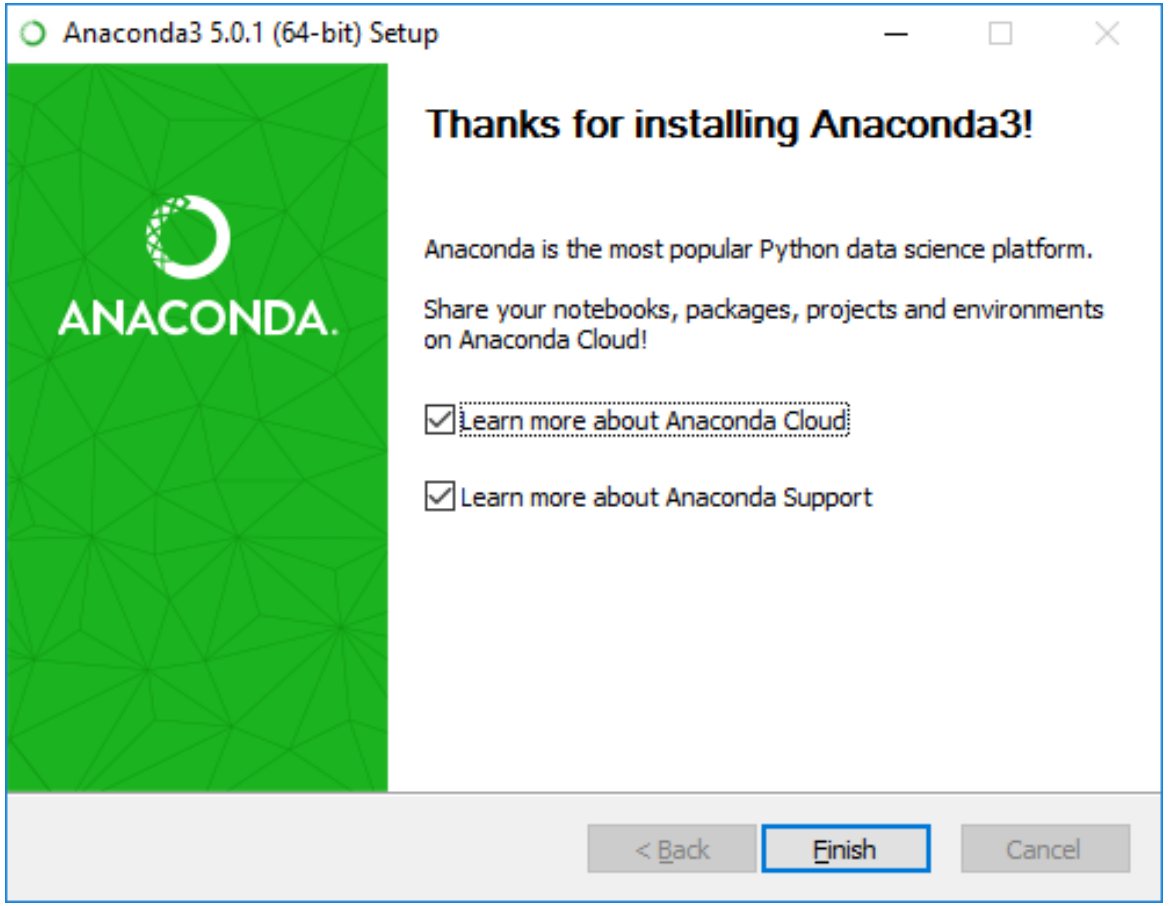


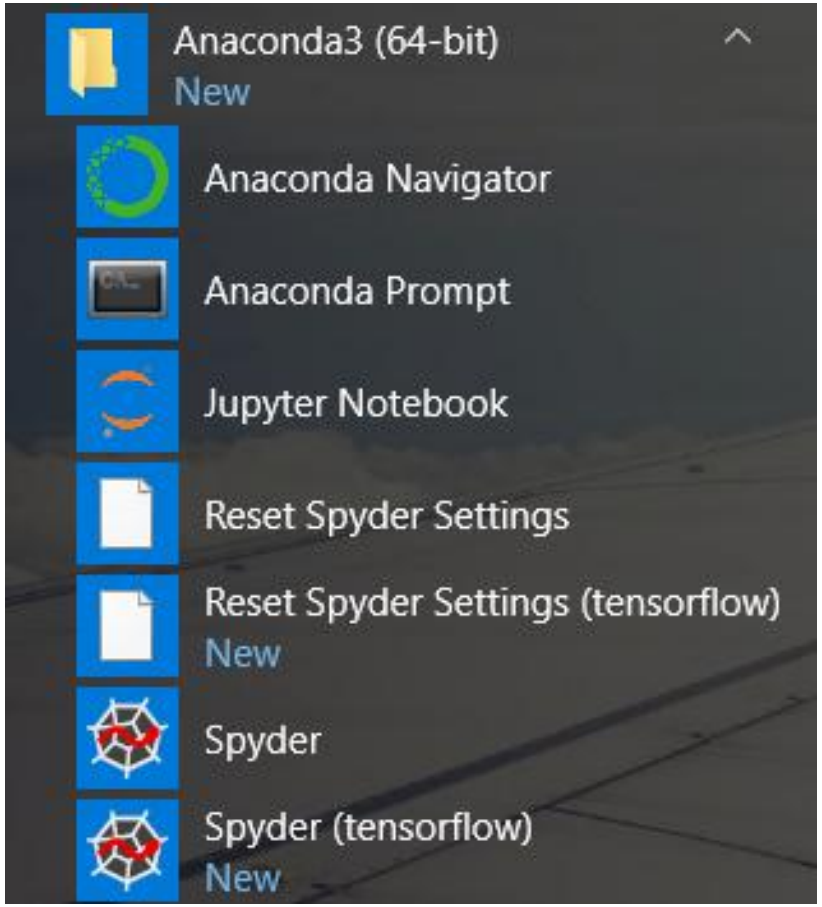
Installation





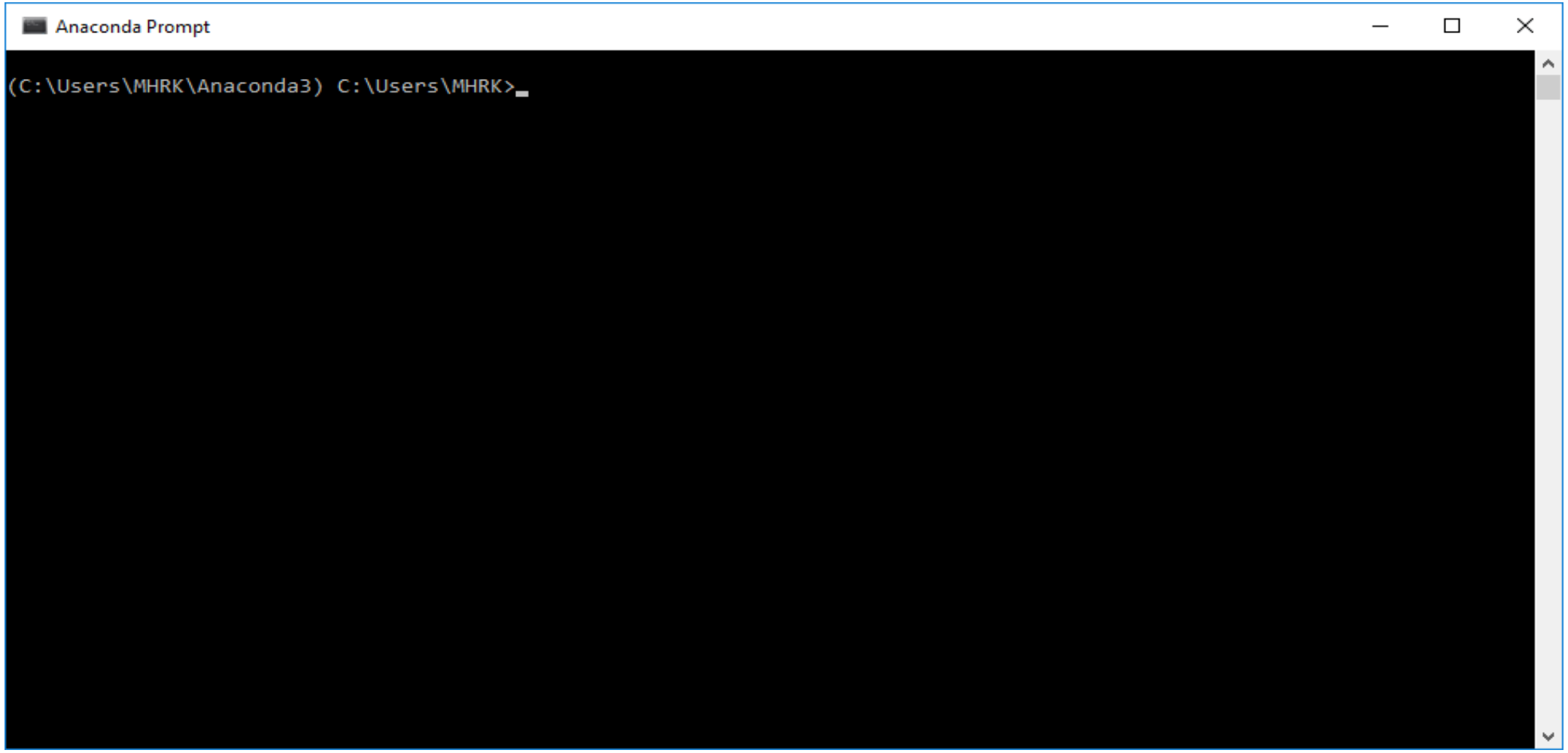
Installation





Installation

Anconda Prompt



Installation using Prompt

Installing with Anaconda

The Anaconda installation is community supported, not officially supported.

Take the following steps to install TensorFlow in an Anaconda environment:

1. Follow the instructions on the Anaconda download site to download and install Anaconda.
2. Create a conda environment named `tensorflow` by invoking the following command:

```
C:> conda create -n tensorflow python=3.5
```

creates new python 3.5 Environment

3. Activate the conda environment by issuing the following command:

```
C:> activate tensorflow
 (tensorflow)C:>  # Your prompt should change
```

start using "tensorflow" env

4. Issue the appropriate command to install TensorFlow inside your conda environment. To install the CPU-only version of TensorFlow, enter the following command:

```
(tensorflow)C:> pip install --ignore-installed --upgrade tensorflow
```

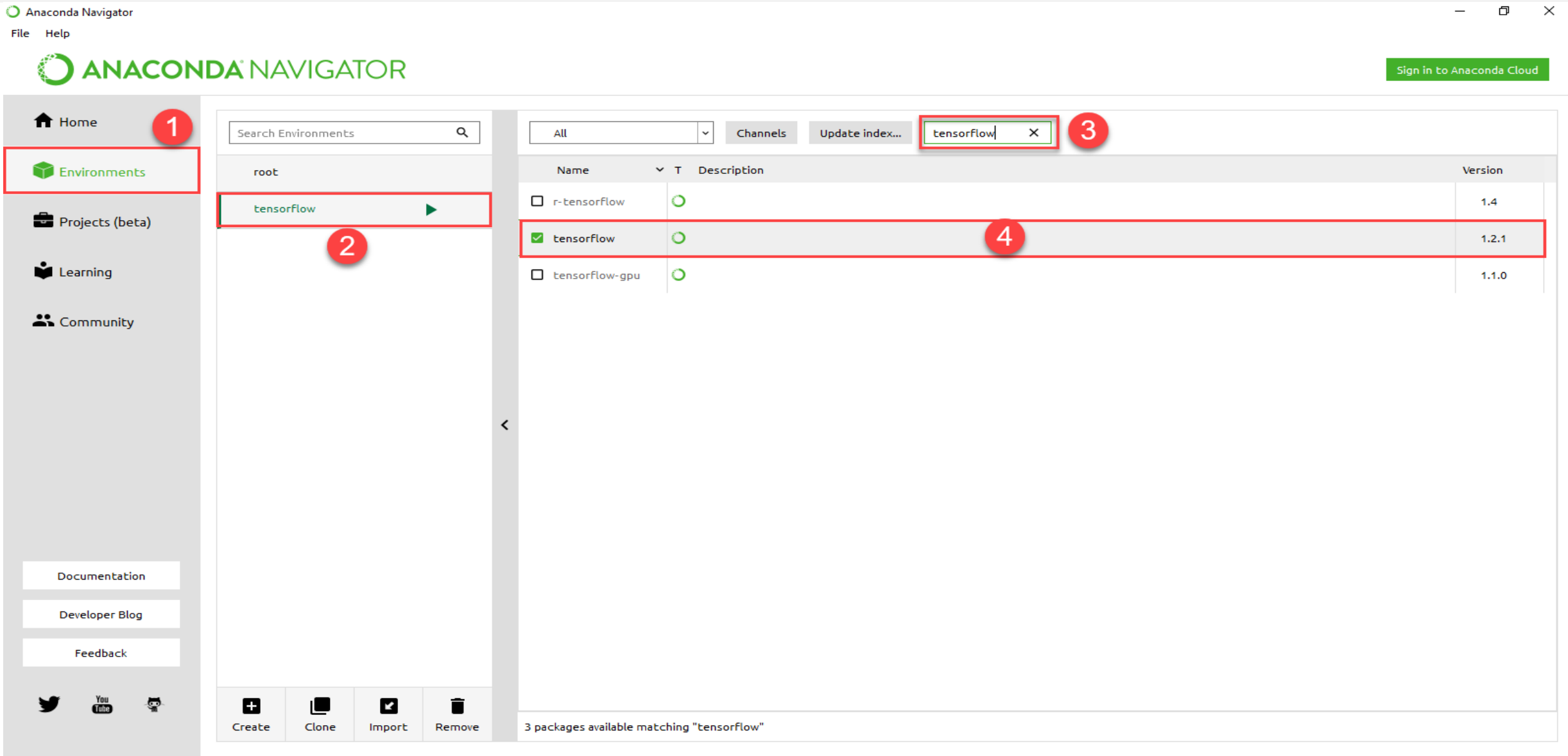
tensorflow CPU

To install the GPU version of TensorFlow, enter the following command (on a single line):

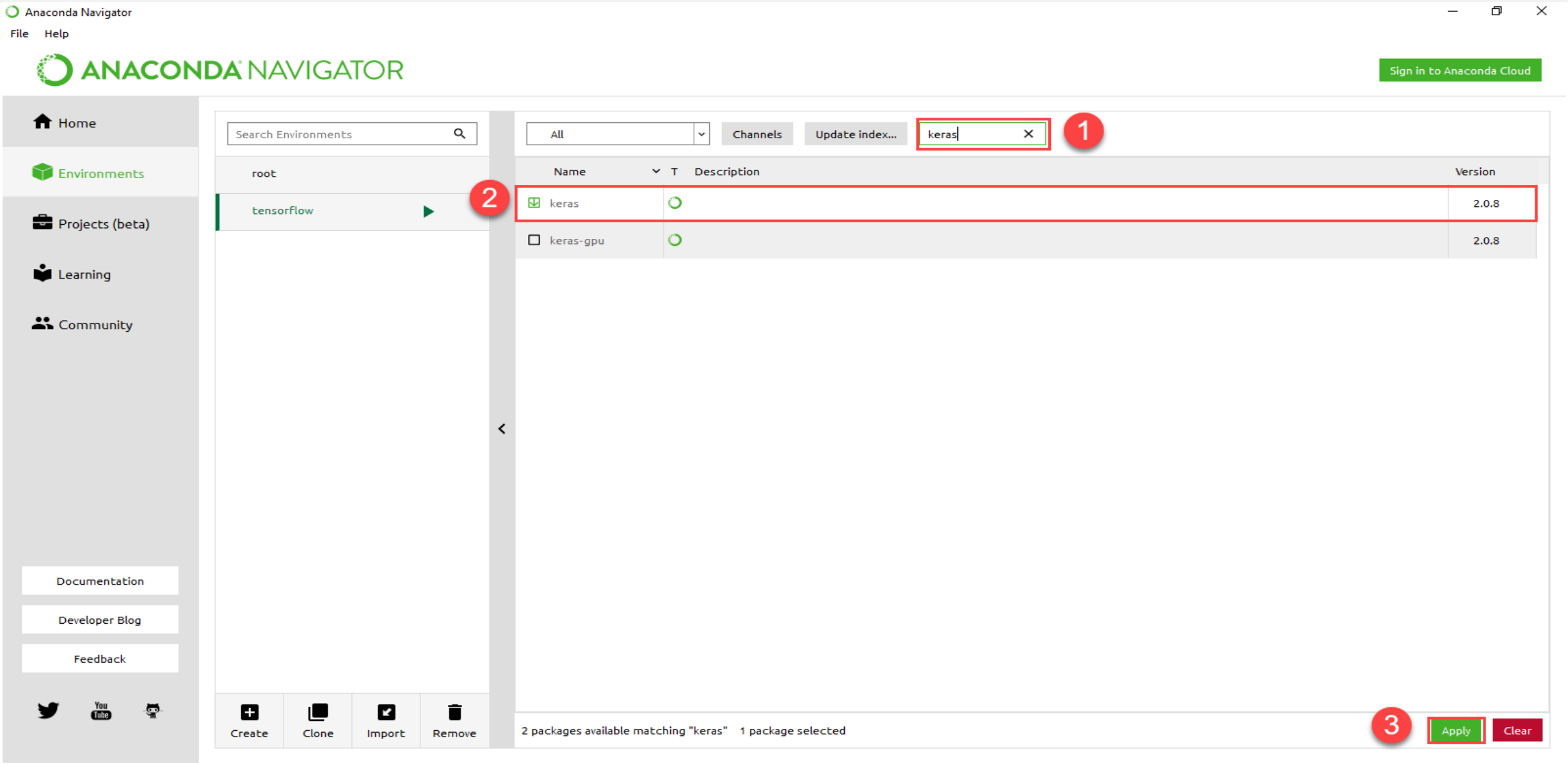
```
(tensorflow)C:> pip install --ignore-installed --upgrade tensorflow-gpu
```

tensorflow GPU

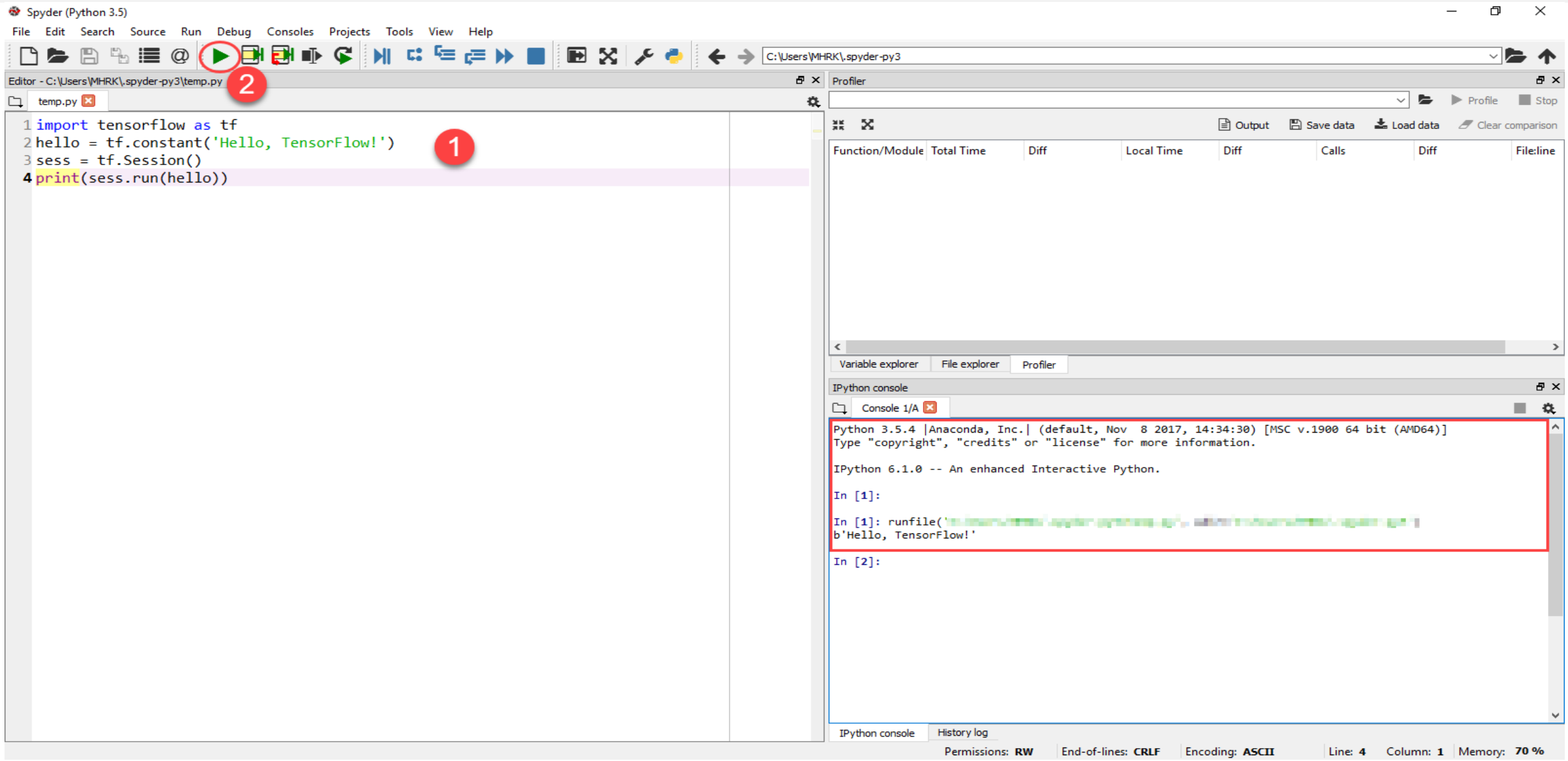
Validate TensorFlow Installation



ANACONDA Navigator – Installing Keras



Spyder (IDE)


Spyder (Python 3.5)
File Edit Search Source Run Debug Consoles Projects Tools View Help
C:\Users\MHRK\.spyder-py3
Editor - C:\Users\MHRK\.spyder-py3\temp.py
temp.py
1 import tensorflow as tf
2 hello = tf.constant('Hello, TensorFlow!')
3 sess = tf.Session()
4 print(sess.run(hello))
1
2
Profiler
Profile
Stop
Output
Save data
Load data
Clear comparison
Function/Module
Total Time
Diff
Local Time
Diff
Calls
Diff
File:line
Variable explorer
File explorer
Profiler
IPython console
Console 1/A
Python 3.5.4 |Anaconda, Inc.| (default, Nov 8 2017, 14:34:30) [MSC v.1900 64 bit (AMD64)]
Type "copyright", "credits" or "license" for more information.
IPython 6.1.0 -- An enhanced Interactive Python.
In [1]:
In [1]: runfile('
b'Hello, TensorFlow!'
In [2]:
IPython console
History log
Permissions: RW
End-of-lines: CRLF
Encoding: ASCII
Line: 4
Column: 1
Memory: 70 %