



# 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/>



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## Anaconda 5.0.1 For Windows Installer

**Python 3.6 version \***

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[How to Install ANACONDA](#)

# Installation



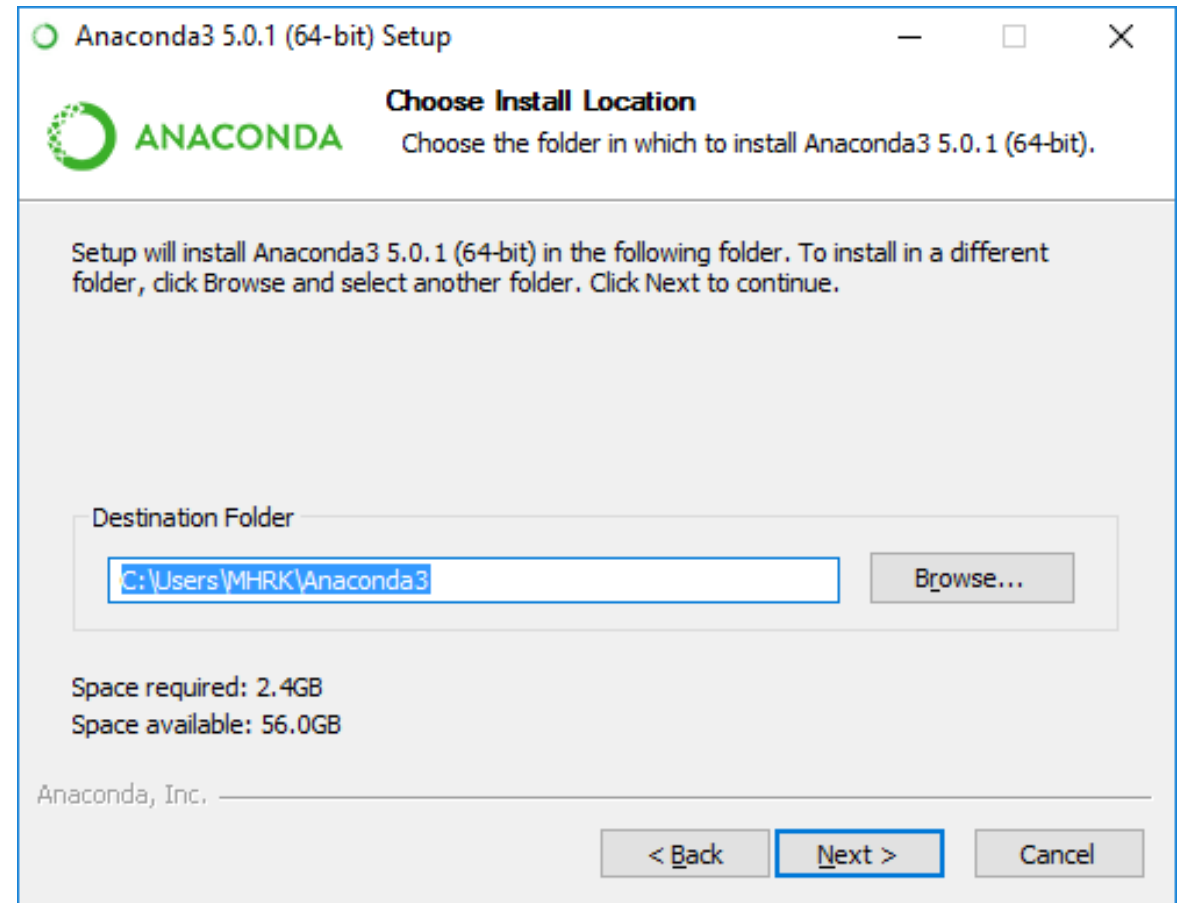
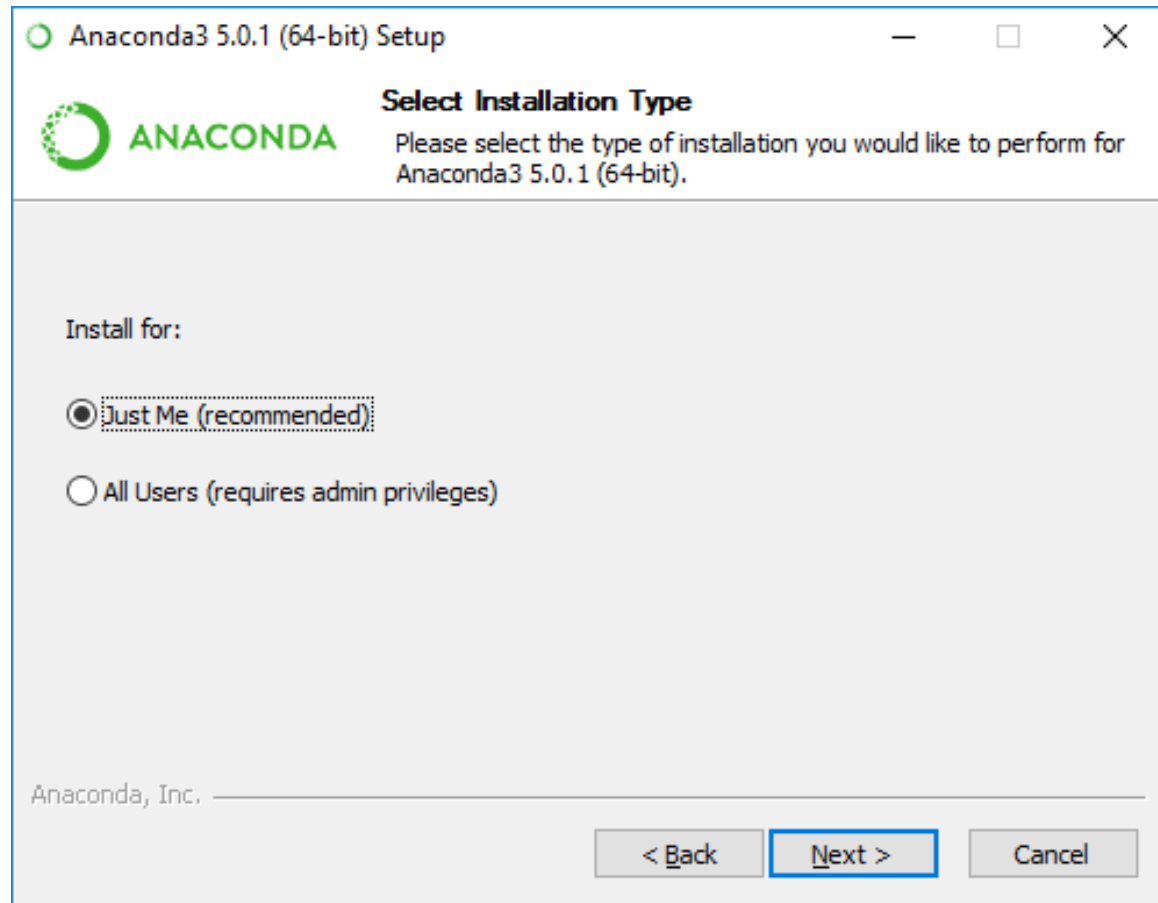
Anaconda2-5.0.1  
-Windows-x86\_64  
.exe



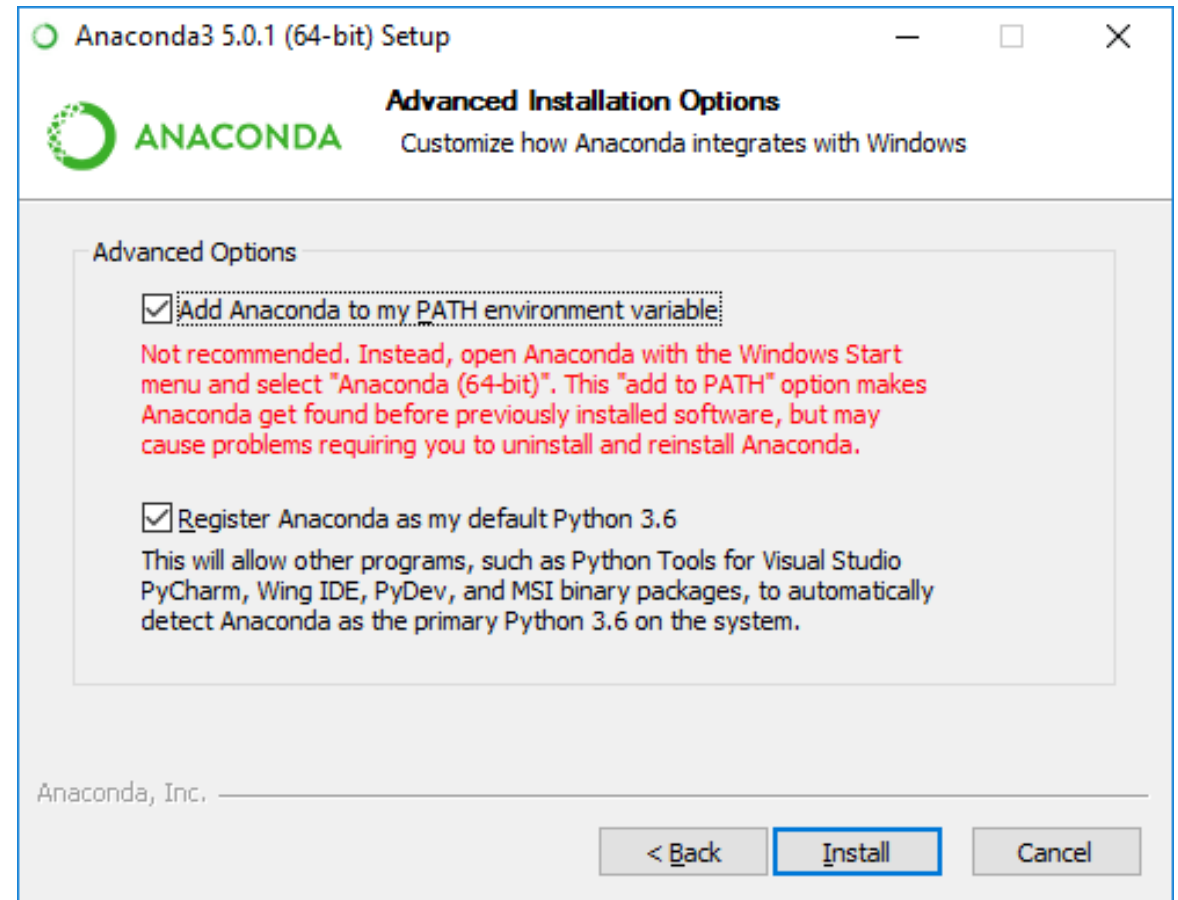
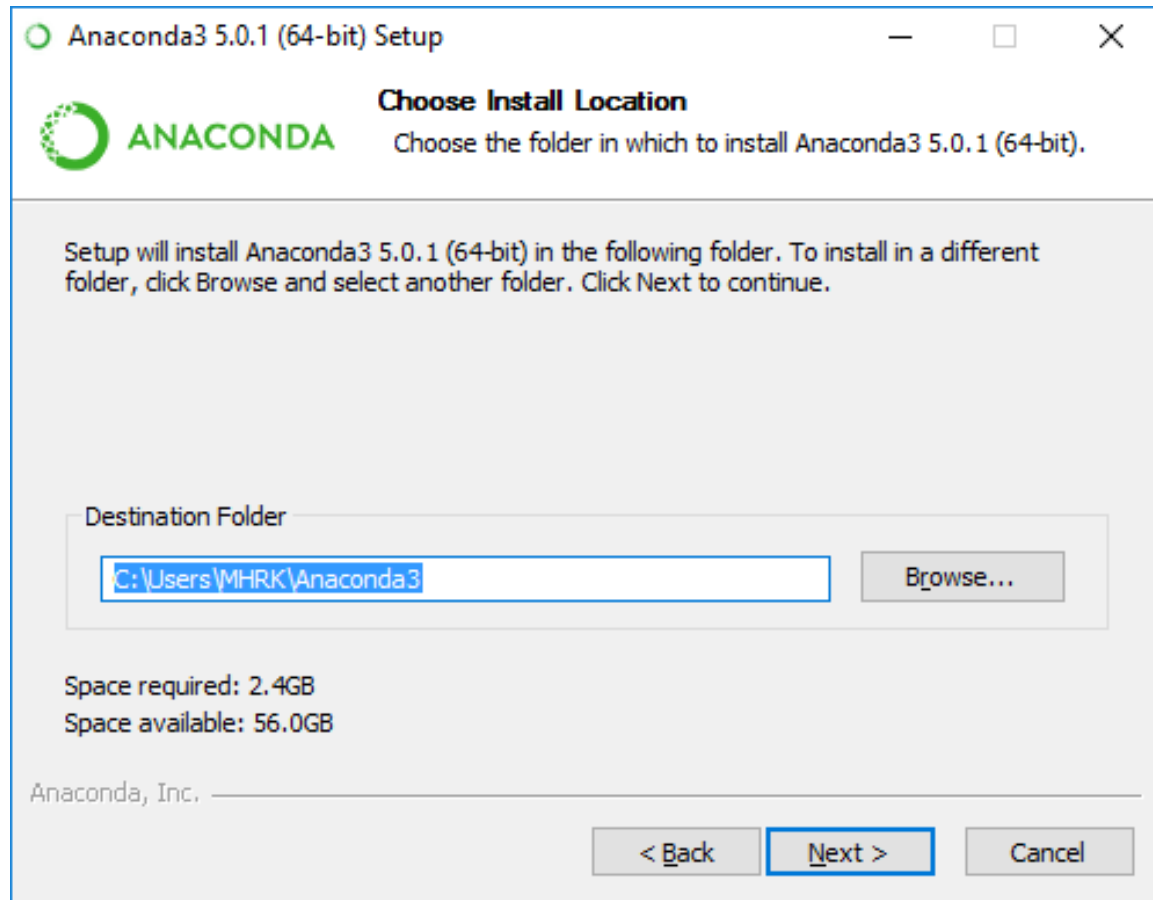
Anaconda3-5.0.1  
-Windows-x86\_64  
.exe



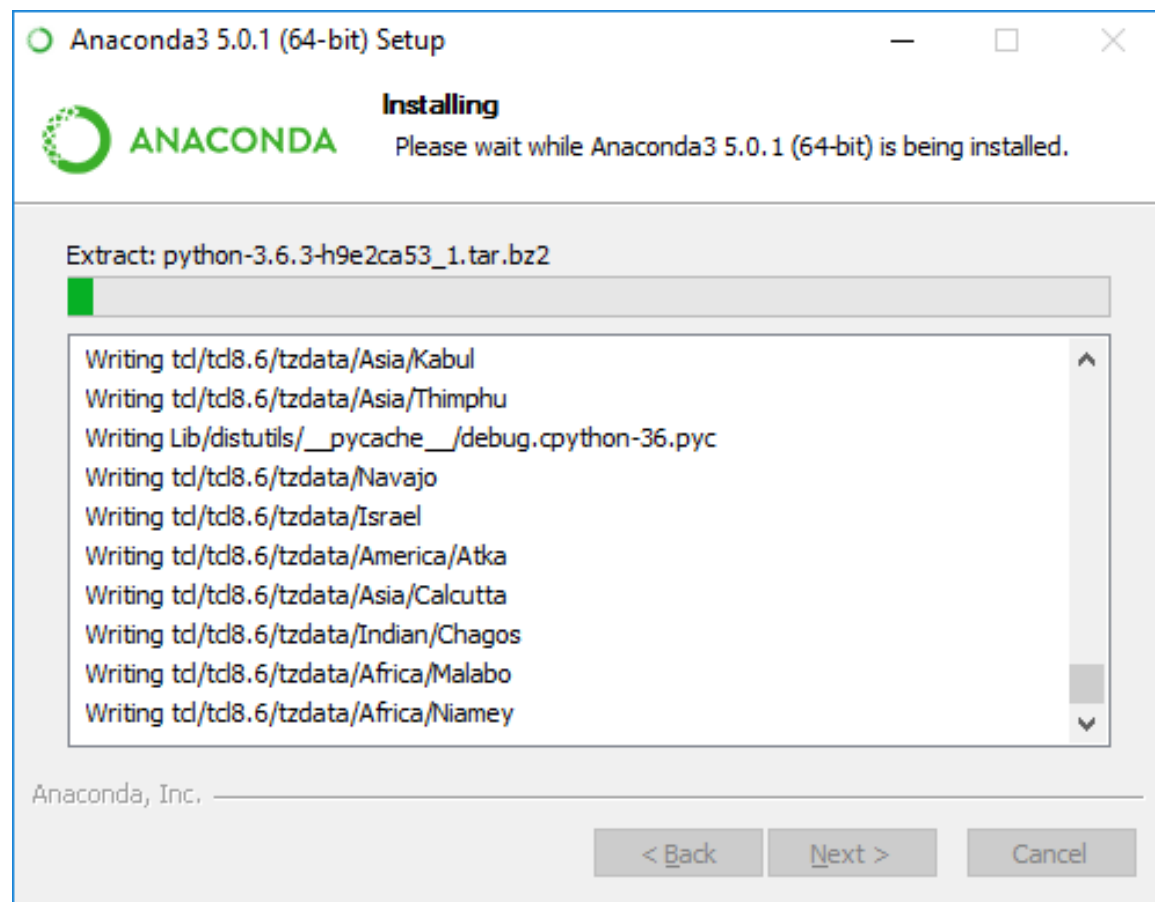
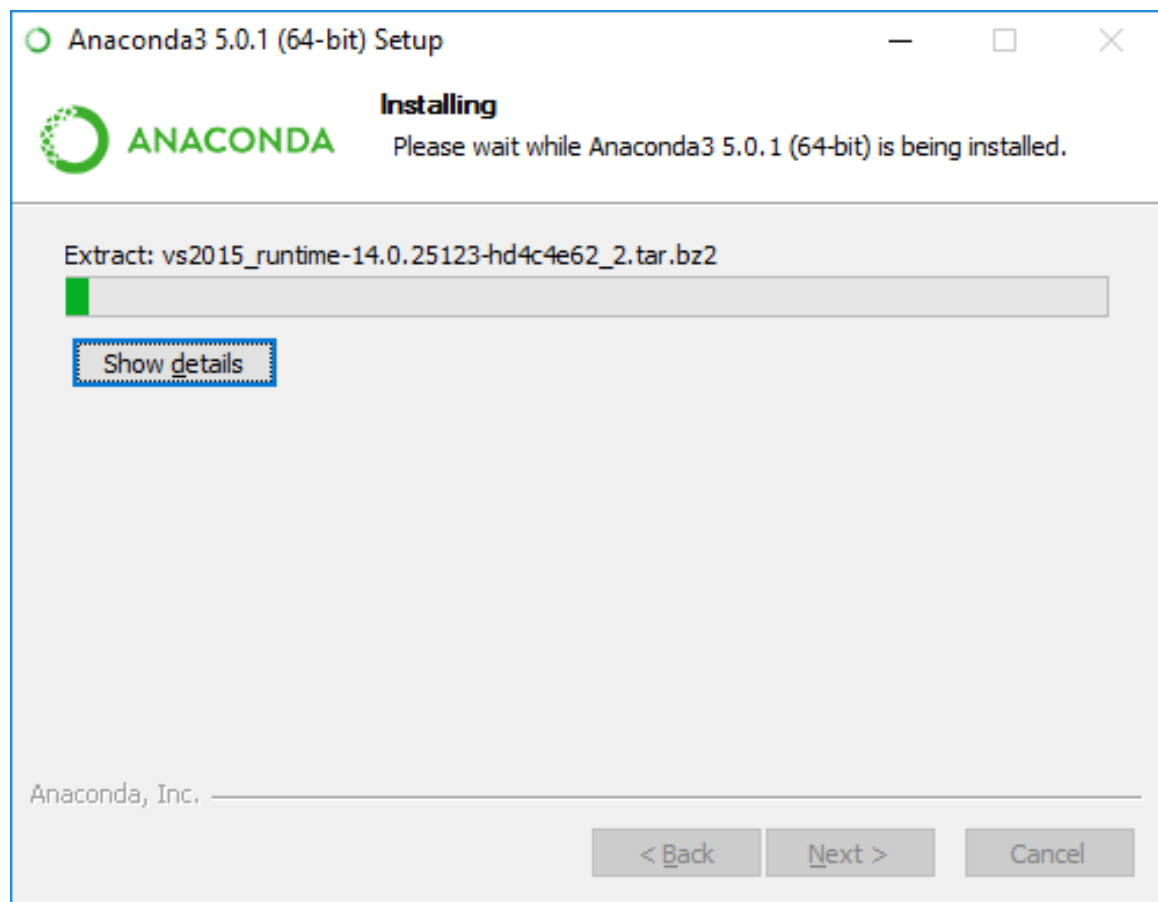
# Installation



# Installation

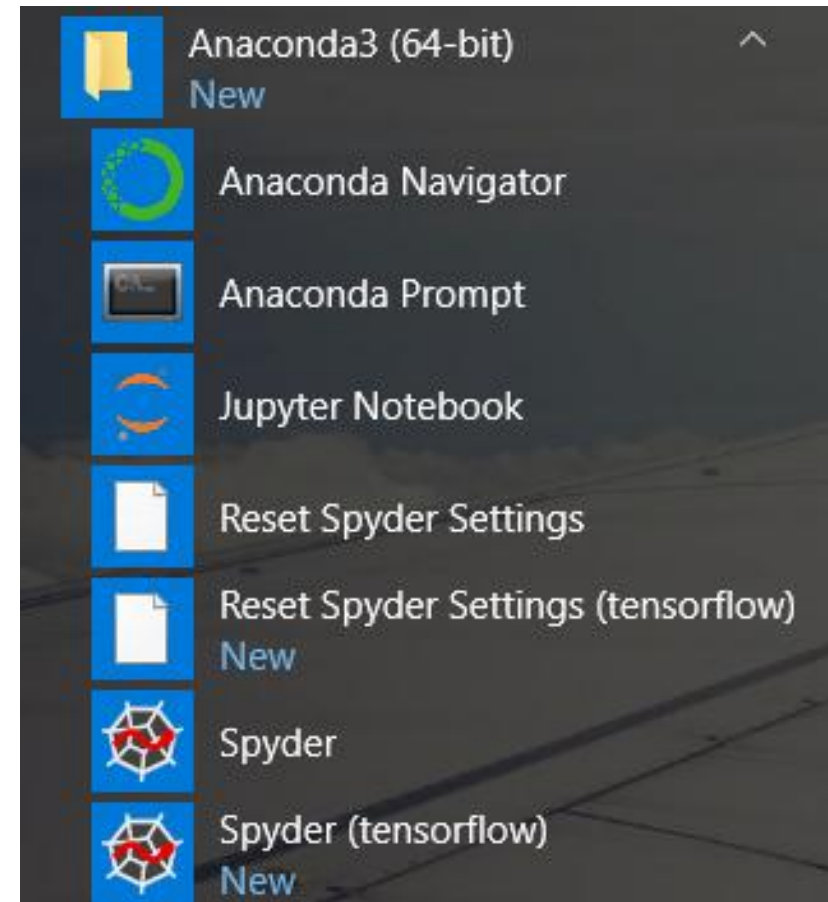
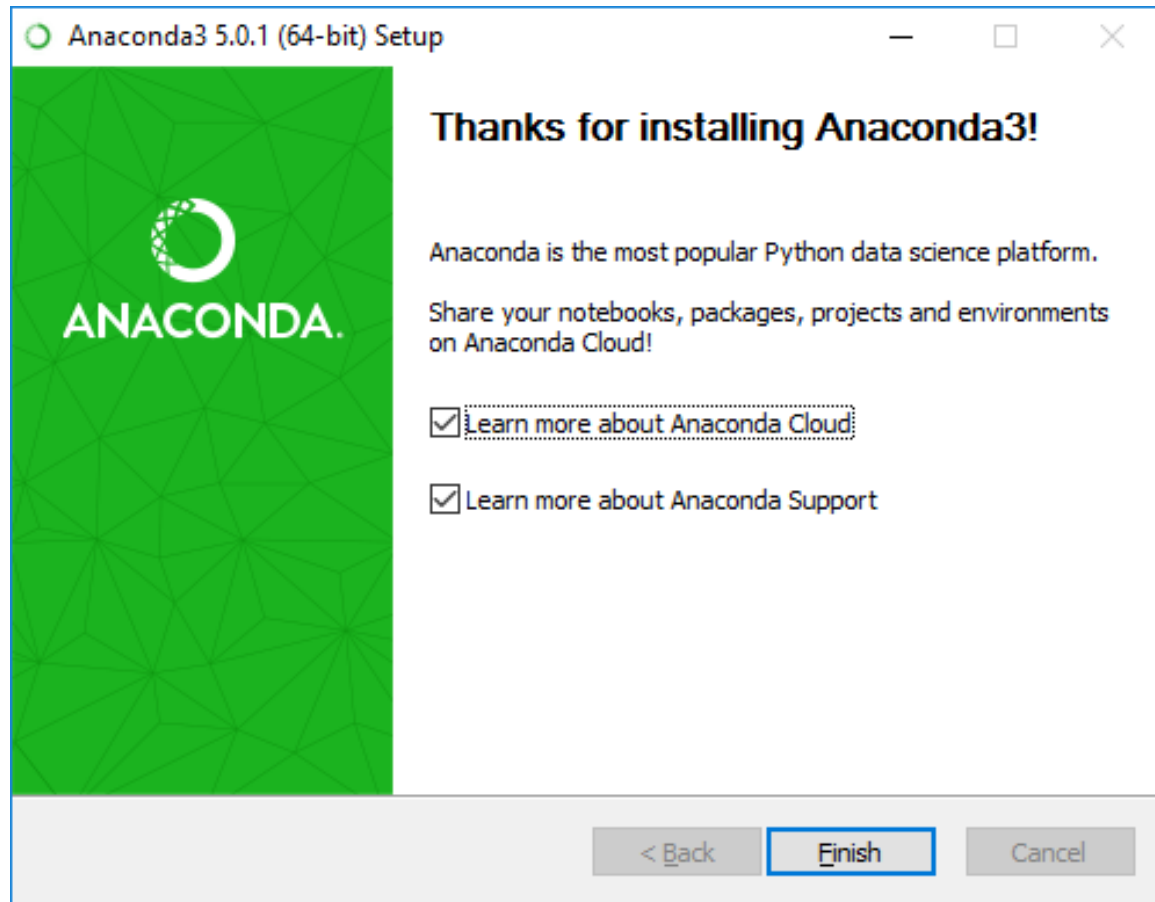


# Installation



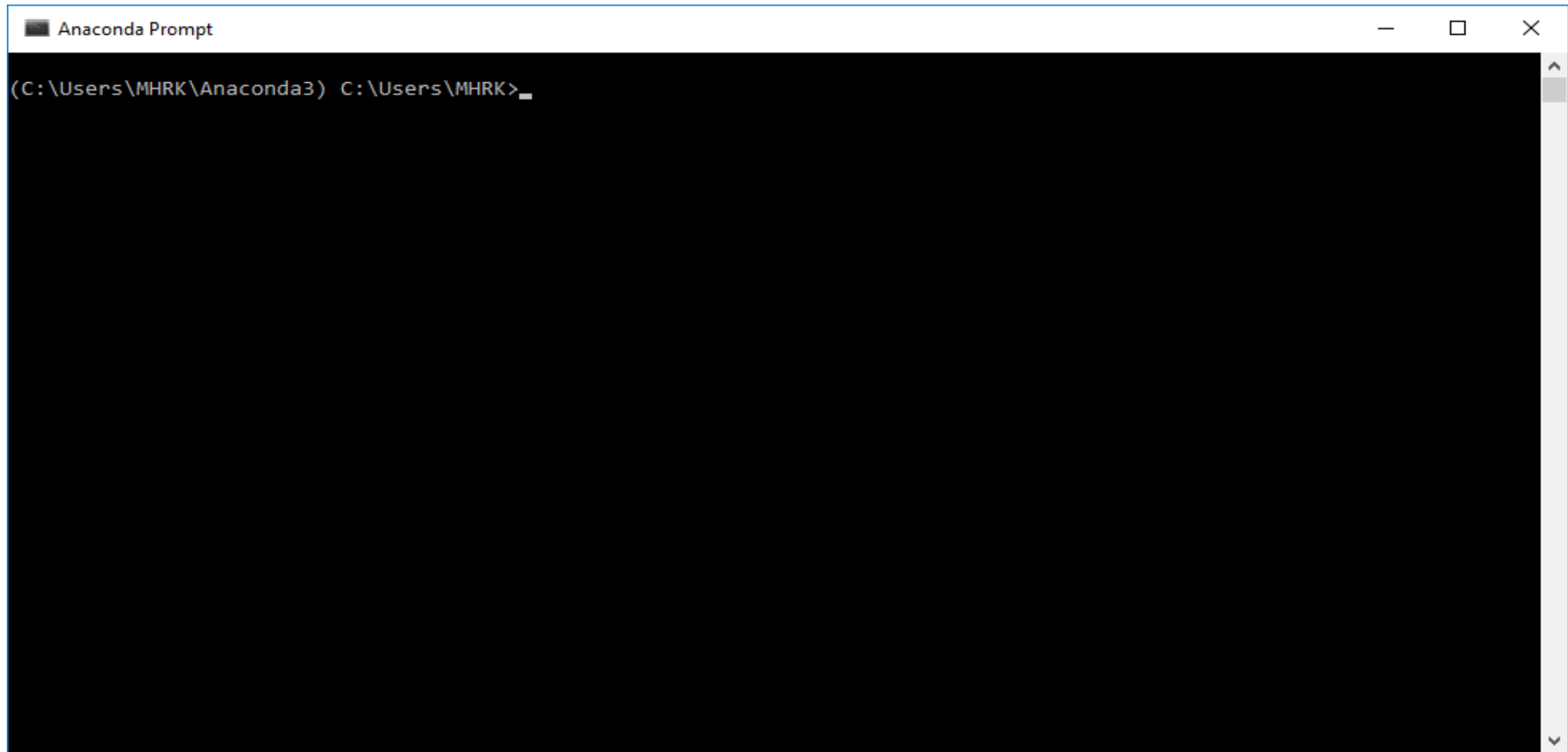


# Installation



# 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

File Help

ANACONDA NAVIGATOR

Sign in to Anaconda Cloud

1 Home

2 Environments

3 Search Environments

4 tensorflow

root

tensorflow

tensorflow

tensorflow-gpu

1.4

1.2.1

1.1.0

Create Clone Import Remove

3 packages available matching "tensorflow"

Name	T	Description	Version
<input type="checkbox"/> r-tensorflow	○		1.4
<input checked="" type="checkbox"/> tensorflow	○		1.2.1
<input type="checkbox"/> tensorflow-gpu	○		1.1.0

# ANACONDA Navigator – Installing Keras

Anaconda Navigator

File Help

ANACONDA NAVIGATOR

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All Channels Update index...

keras

1

2

Name	T	Description	Version
<input checked="" type="checkbox"/> keras			2.0.8
<input type="checkbox"/> keras-gpu			2.0.8

3

2 packages available matching "keras" 1 package selected

Apply Clear

# Spyder (IDE)

The screenshot displays the Spyder Python IDE interface. The main editor window shows a Python script named `temp.py` with the following code:

```
1 import tensorflow as tf
2 hello = tf.constant('Hello, TensorFlow!')
3 sess = tf.Session()
4 print(sess.run(hello))
```

Red annotations highlight the `print` function in line 4 (marked with a red circle and the number 1) and the Run button in the toolbar (marked with a red circle and the number 2). The Run button is a green play icon.

The right sidebar contains three panels:

- Profiler:** A table with columns: Function/Module, Total Time, Diff, Local Time, Diff, Calls, Diff, and Fileline. It is currently empty.
- Variable explorer:** A panel for viewing variables, currently empty.
- File explorer:** A panel for viewing files, currently empty.

The bottom panel is the **IPython console**, which shows the output of the script:

```
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('C:\Users\MHRK\spyder-py3\temp.py', wdir='C:\Users\MHRK\spyder-py3')
b'Hello, TensorFlow!'

In [2]:
```

The status bar at the bottom indicates: Permissions: RW, End-of-lines: CRLF, Encoding: ASCII, Line: 4, Column: 1, Memory: 70 %.