

# Visual guide for installation instruction

## For Mac OS X

# 1. Download and install Anaconda

- Go <https://www.anaconda.com/distribution/> and click on **Download Python 3.7 version**

Windows | macOS | Linux

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### Anaconda 2019.03 for macOS Installer

#### Python 3.7 version

Download 2

64-Bit Graphical Installer (637 MB)  
64-Bit Command Line Installer (542 MB)

#### Python 2.7 version

Download

64-Bit Graphical Installer (624 MB)  
64-Bit Command Line Installer (530 MB)

### Get Started with Anaconda Distribution

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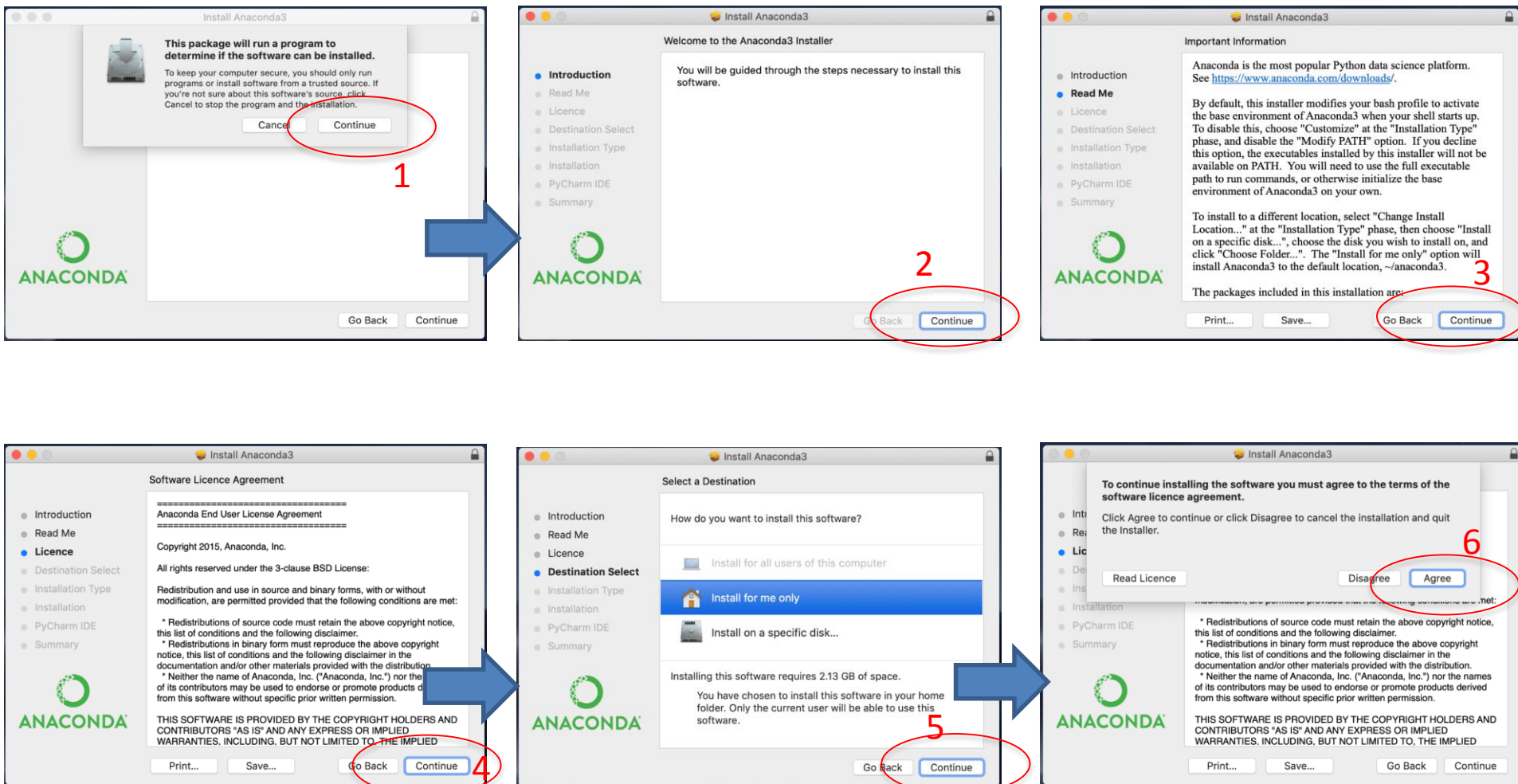
Hardware Recommendation:

- ✓ CPU: i5 (64bit) or above
- ✓ Memory: 4Gb or above
- ✓ Internet enabled
- ✓ MacOS admin right

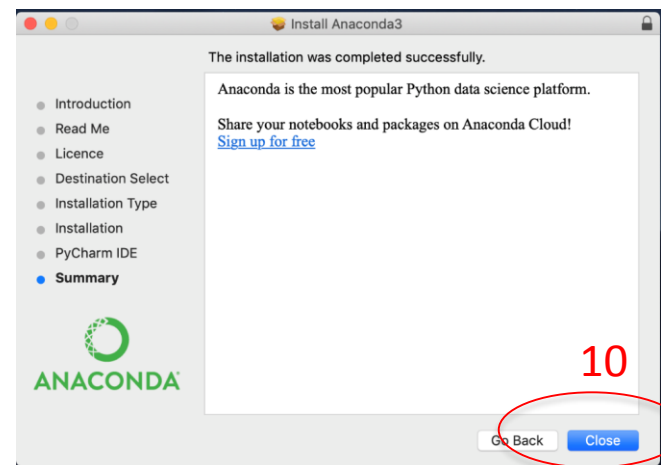
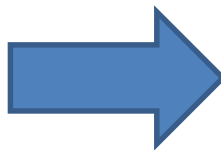
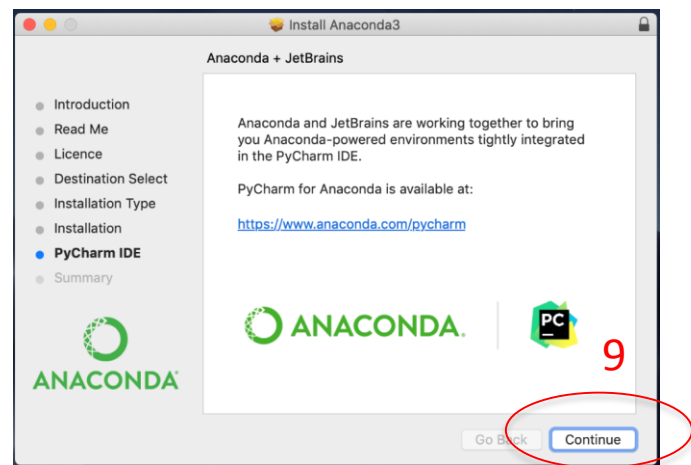
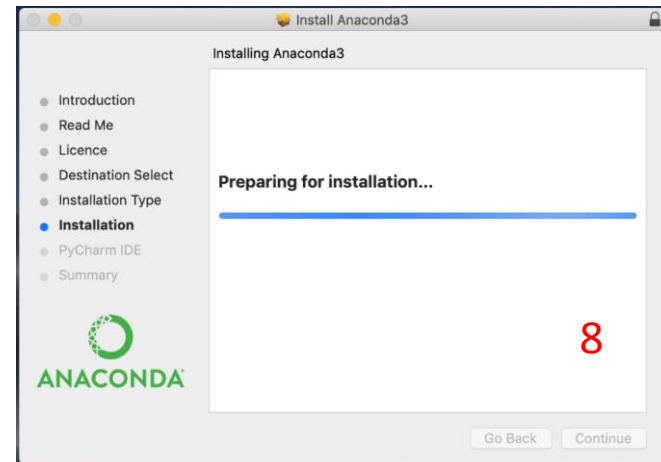
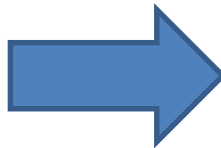
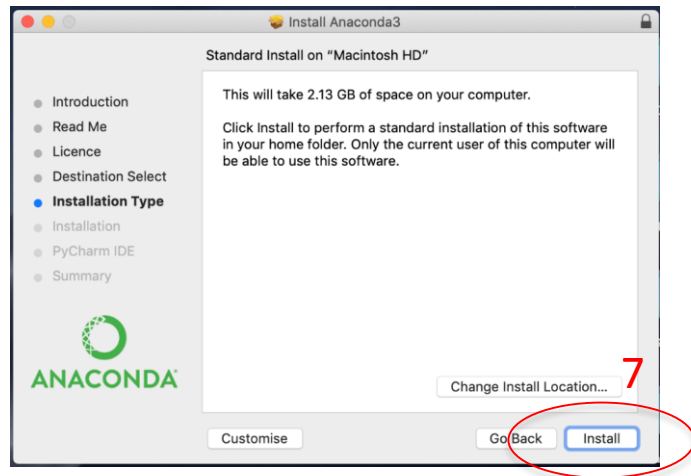
Click here for the macOS version

Download here for Python 3.7

# 1. Download and install Anaconda



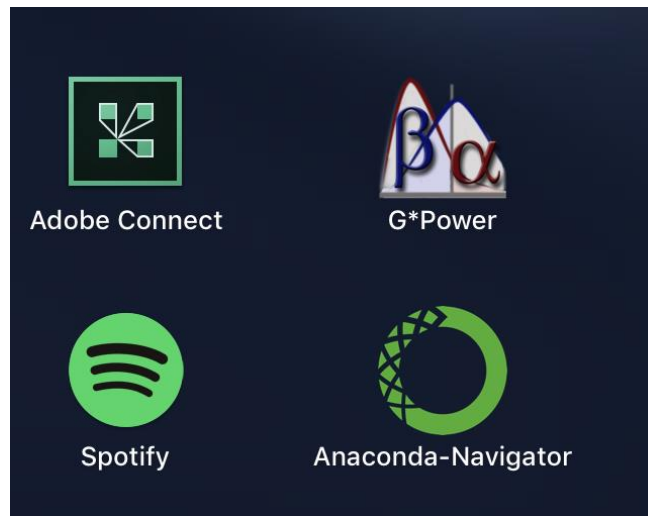
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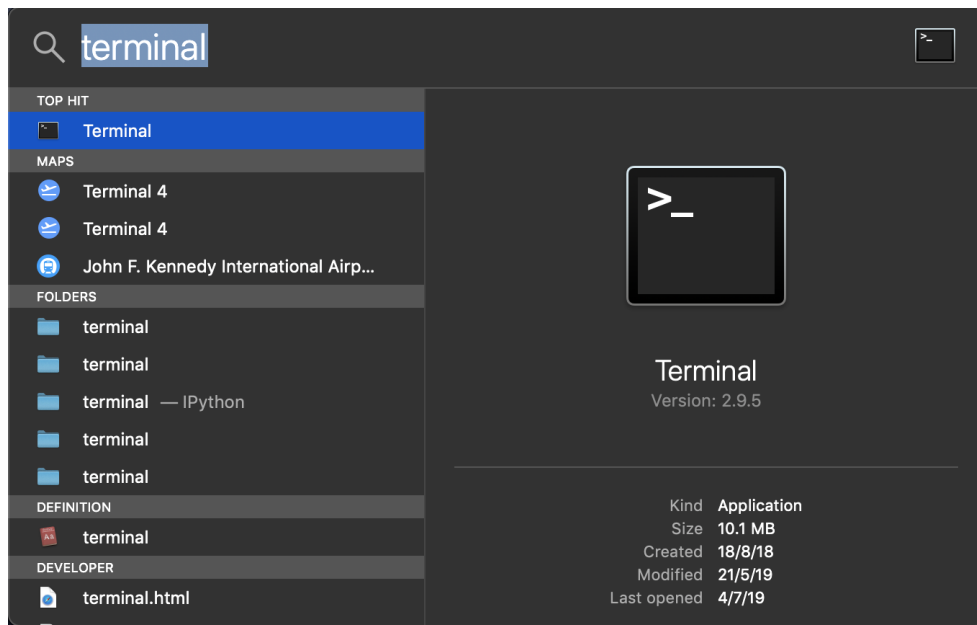
- Make sure you see the **Anaconda Navigator** Icon in your **Launchpad**



- **Now you have installed Anaconda**

# 1.1 Open the macOS terminal

- Cmd+Space bar to open Spotlight search
- Type '**terminal**' and open it



## 2. Create a Tensorflow environment in terminal

conda create -n tensorflow python=3.6

```
((base) Ducs-MacBook-Pro:~ ducquangnguyen$ conda create -n tensorflow python=3.6
WARNING: The conda.compat module is deprecated and will be removed in a future release.
Collecting package metadata: done
Solving environment: done

==> WARNING: A newer version of conda exists. <==
  current version: 4.6.11
  latest version: 4.7.5

Please update conda by running
```

Type this line  
into terminal

- Please wait for the installation to complete
- Note that we have to **key in 'y'** in order to proceed with installation

```
zlib                pkgs/main/osx-64::zlib-1.2.11-h1de35cc_3
Proceed ([y]/n)? y
```

### 3. Activate your new environment:

---

**conda activate tensorflow**

Type this line  
into terminal

- You will see your prompt prepend (Tensorflow) to indicate that you are in your Tensorflow environment

```
(base) Ducs-MacBook-Pro:~ ducquangnguyen$ conda activate tensorflow  
(tensorflow) Ducs-MacBook-Pro:~ ducquangnguyen$
```

Prepend here! Now you are in Tensorflow



## 4. Install some prerequisite packages

conda install imageio numpy matplotlib jupyter  
spyder tqdm urllib3 h5py

Type this line  
into terminal

```
(tensorflow) Ducs-MacBook-Pro:~ ducquangnguyen$ conda install imageio numpy matplotlib jupyter spyder tqdm urllib3 h5py
WARNING: The conda.compat module is deprecated and will be removed in a future release.
Collecting package metadata: done
Solving environment: done

==> WARNING: A newer version of conda exists. <==
current version: 4.6.11
```

in Tensorflow environment you just activated

- to key in 'y'

```
zeromq      pkgs/main/osx-64::zeromq-4.3.1-h0a44026_3
zstd        pkgs/main/osx-64::zstd-1.3.7-h5bba6e5_0

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

# 5. Install CPU version of TensorFlow

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- **CPU**

`pip install --ignore-installed --upgrade https://storage.googleapis.com/tensorflow/mac/cpu/tensorflow-1.12.0-py3-none-any.whl`

← Type this line into terminal

```
Preparing transaction: done
Verifying transaction: done
Executing transaction: done
(tensorflow) Ducs-MacBook-Pro:~ ducquangnguyen$ pip install --ignore-installed --upgrade https://storage.googleapis.com/tensorflow/mac/cpu/tensorflow-1.12.0-py3-none-any.whl
```

- The above only applies to CPU version. For the purposes of this demo though, the CPU version is sufficient.

# Verify TensorFlow Installation

- a) Enter: `python`
- b) Enter this program into your Python shell:

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

```
(base) Ducs-MacBook-Pro:~ ducquangnguyen$ conda activate tensorflow
(tensorflow) Ducs-MacBook-Pro:~ ducquangnguyen$ python
Python 3.6.8 |Anaconda, Inc.| (default, Dec 29 2018, 19:04:46)
[GCC 4.2.1 Compatible Clang 4.0.1 (tags/RELEASE_401/final)] on darwin
Type "help", "copyright", "credits" or "license" for more information.
>>> import tensorflow as tf
>>> hello = tf.constant('Hello')
>>> sess = tf.Session()
2019-07-03 14:39:44.759518: I tensorflow/core/platform/cpu_feature_guard.cc:141] Your CPU supports instructions that this TensorFlow binary was not compiled to use: AVX2 FMA
>>> print(sess.run(hello))
b'Hello'
>>> quit()
(tensorflow) Ducs-MacBook-Pro:~ ducquangnguyen$
```

- You just completed the installation!