

Python is a versatile programming language that can be used for anything from web design to machine learning. Its package manager, pip (a recursive abbreviation for "Pip Installs Packages" or "Pip Installs Python"), is used to automate package removal, updates, and installations.

Anaconda is a distribution (bundle) of tools designed specifically for data science, including Jupyter Notebook and RStudio, along with Python, R, and other languages. Additionally, it offers conda as a substitute package management.

Upon installing Python, one obtains access to the programming language and pip (found in Python 3.4 and Python 2.7.9+), which allows one to install more packages from the Python Package Index (also known as PyPi).

Anaconda, on the other hand, comes with pre-installed packages, data science tools, and the Anaconda Navigator graphical user interface.

Steps to install Anaconda

- Step #1: Download Anaconda
- Step #2: Download the Python 3 version for Windows
- Step #3: Double-click on the executable file (from the downloaded folder)
- Step #4: Click Next
- Step #5: Click I agree to the terms and conditions
- Step #6: Select Who You Want To Give Anaconda To
- Step #7: Select the installation location
- Step #8: Select the environment variables
- Step #9: Click Next and then "Finish"

What is Anaconda?

Anaconda is a free and open-source distribution of Python and R programming languages for data science and machine learning.

This will help you simplify your Python deployment and later on your package management.

Anaconda comes with over a 1500 packages (including the package management system conda) and a GUI named Anaconda Navigator. The Anaconda Navigator also install some applications by default such as Jupyter Notebook, Spyder IDE and Rstudio (for R).

For the purpose of this module, we will use Jupyter Notebook

Download and Install Anaconda

Step #1: Go To Anaconda.com

Go to [Anaconda.com](https://www.anaconda.com), and download the Anaconda version for Windows.

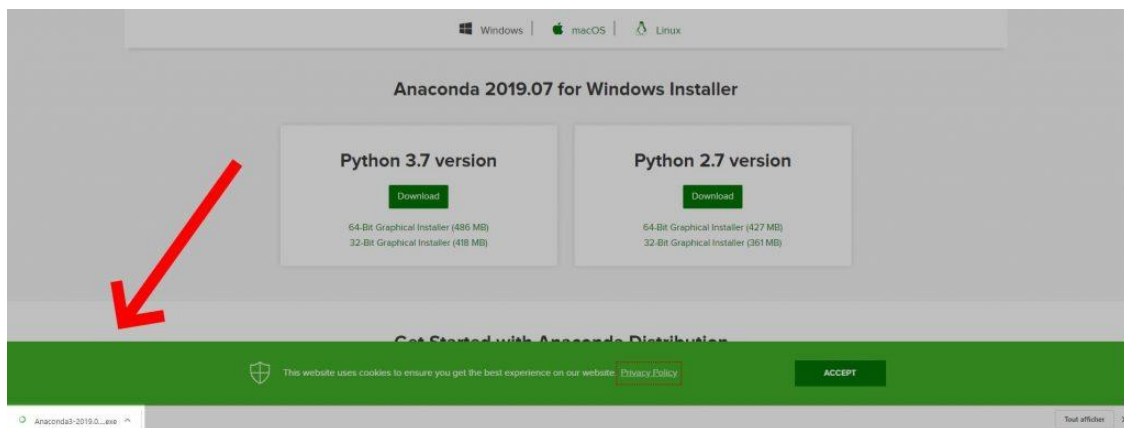
Step #2: Download the Python 3 version for Windows anaconda.

Version 2 will not be updated past 2020, so do yourself a favor and start using V3.

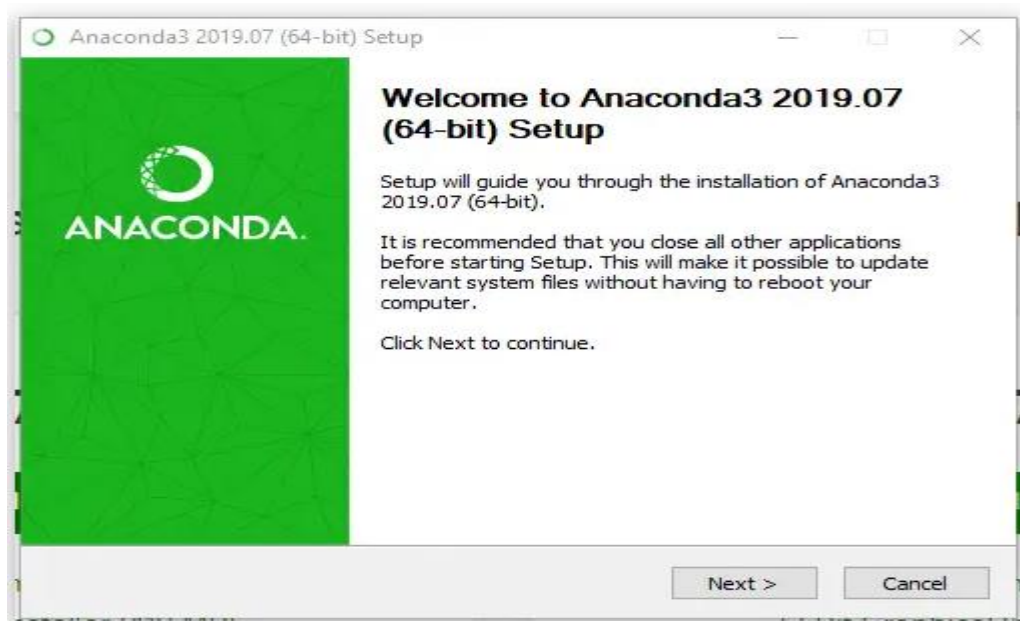
Link: <https://www.anaconda.com/download>

Step #3: Double-click on the executable file.

To get the installation of Anaconda started on your operating system open the executable file in your Download folder.

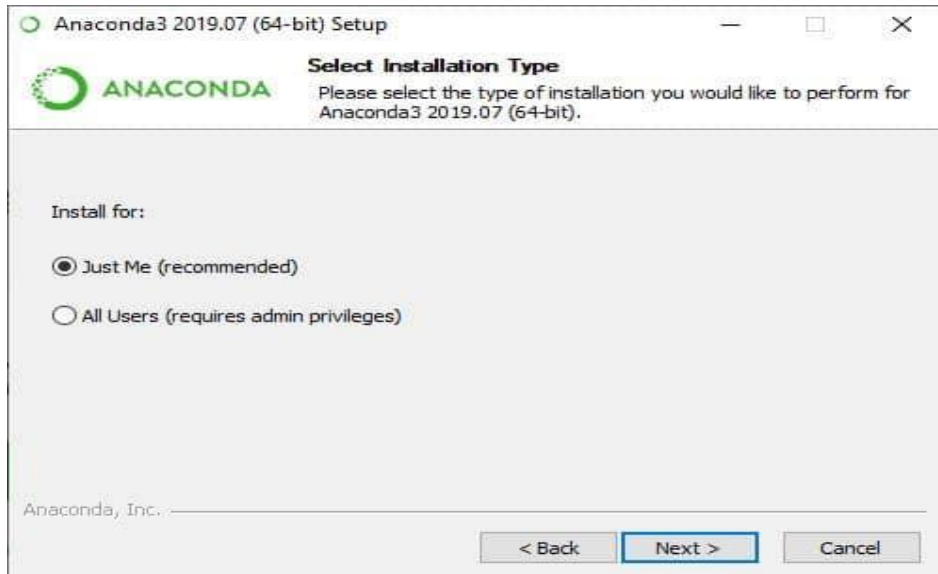


Step #4: Click Next on the following screen



Step #5: Click I agree to the terms and conditions

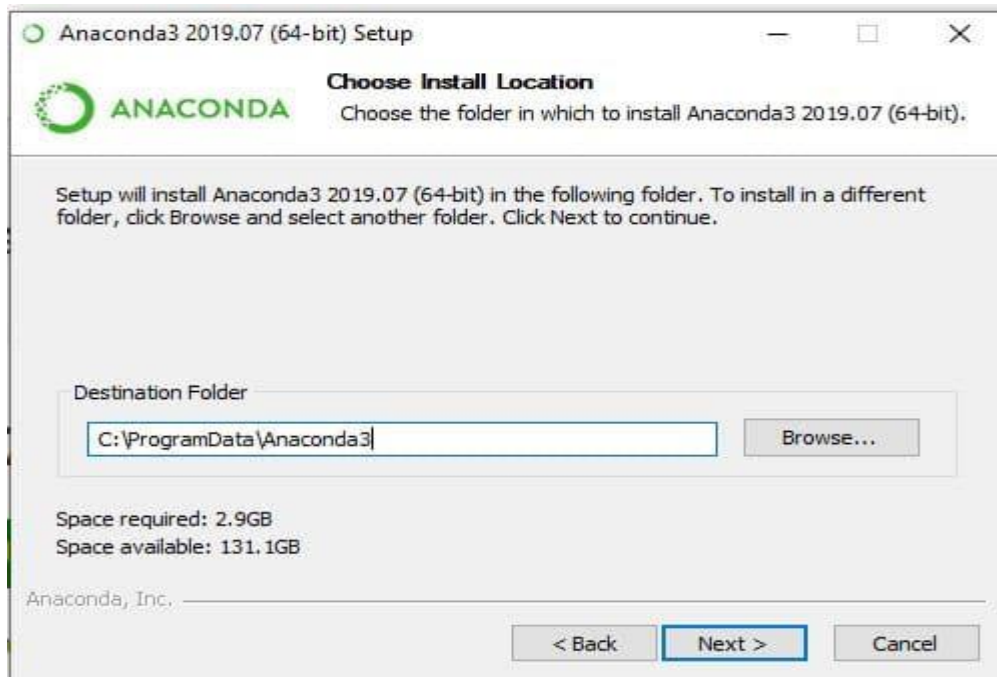
Step #6: Select Who You Want To Give Anaconda To then click Next on the following screen



This step will ask you if you want to install Anaconda just for you or for all the users using this PC. Click “Just-Me”, or “All users”, depending on your preference. Both options will do but to select “all users” you will need admin privileges.

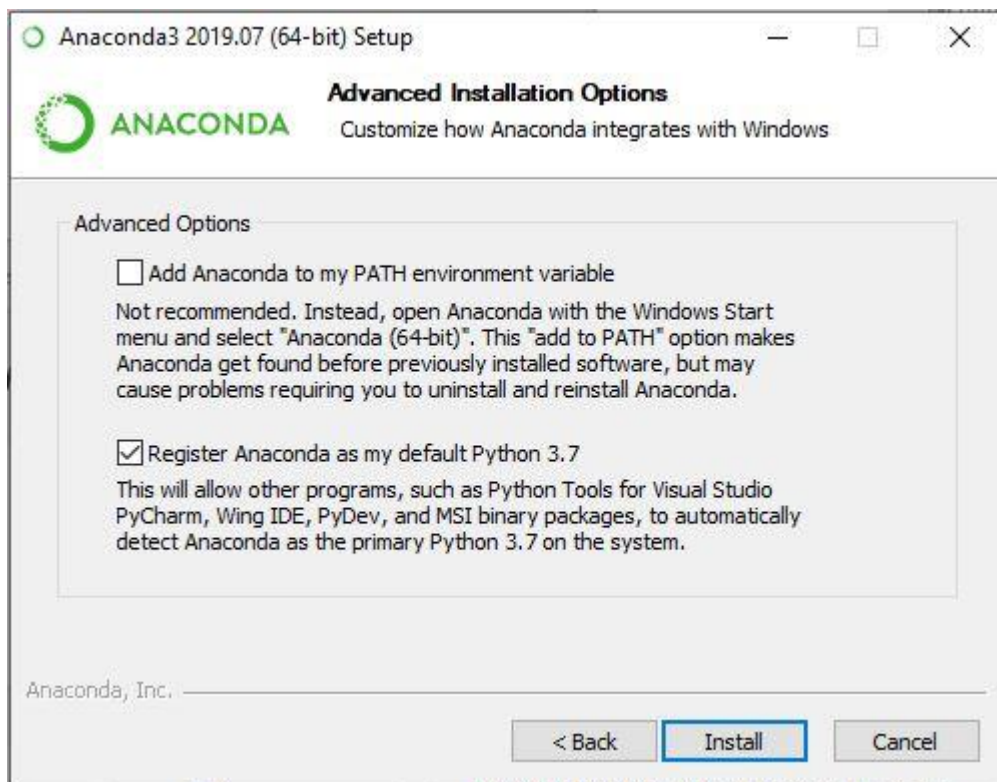
Step #7: Select the installation location then click Next on the following screen

If you have selected “All users”, by default, Anaconda will get installed in the C:\ProgramData\Anaconda3 folder. So, make sure that you have at least the right amount of space available to install the subdirectory comparing it the space required.



Step #8: Click Install on the following screen

#Uncheck 1st checkbox before clicking install button



Once you finish installing Anaconda, you will see the following screen, and you will select Jupiter Notebook to start your first program.

ANACONDA Jupyter Notebook

