# **How to Install Python3 on MacOS**

## Introduction

Python is a high level, dynamic, general purpose language. It was developed by **Guido Van Rossum** in **1991**. Python's syntax allows developers to use fewer lines of code than any other programming language. It basically focuses on the code readability of program. Python 2.7 is installed by default on MacOS but we can install other versions like python 3.5 and 3.6.

In this tutorial, we are learning how to install Python 3.6.3 on the MAC Operating system.

# **Prerequisites**

- MacOS
- Login as an administrator on terminal

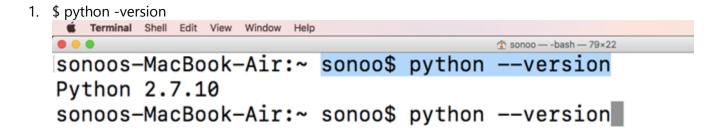
## Installation

There are following steps which are used while installing Python3 on MacOS.

## 1) Checking python's version on the system

We can check which version of the Python is currently installed on our system. Generally, Python 2.7 is installed by default.

Let's see how can we do it.



It shows **Python 2.7.10** is installed on the computer which is quite often.

## 2) Download Python 3.6.3

In order to install Python 3.6.3, we must download the latest version from its official website <a href="https://www.python.org/downloads/">https://www.python.org/downloads/</a>. The file is downloaded in **.pkg** format which can be directly installed by using **Installer** command.

#### 3) Install Python 3.6.3

Since the downloaded file already is in **.pkg** format hence no mounting is required and We can use installer command to install Python 3.6.3.

Let's see how can we do it.

```
** Terminal Shell Edit View Window Help

**Sonoos-MacBook-Air:~ sonoo$ sudo installer -pkg downloads/python-3.6.3-macosx10

.6.pkg -target /

Password:
installer: Package name is Python
installer: Upgrading at base path /
installer: The upgrade was successful.
sonoos-MacBook-Air:~ sonoo$
```

Since The installer is used with super user permissions hence **sudo** forces terminal to prompt the user to fill the admin password. The process installs the Python 3.6.3 to the root directory which is mentioned with the target option.

## 4) Verify Python3

To check which Python version is installed on the machine, we can use **python** - **version** command. Since by default installed version is Python 2.7.10 hence it shows python 2.7.10. but it gives us flexibility to check the version of Python 3 on our computer.

Let's see how can we use python 3 to check which version of python 3 is running.

#### 1. \$ python -version

## 5) Working on Python's script mode

To work on Python command line, we simply type **python3 on the terminal. Python shell open where we can run Python statements such as print statements as we did here.** 

```
* Terminal Shell Edit View Window Help

**Sonoos-MacBook-Air-2:~ ayush$ python3

Python 3.6.3 (v3.6.3:2c5fed86e0, Oct 3 2017, 00:32:08)

[GCC 4.2.1 (Apple Inc. build 5666) (dot 3)] on darwin

Type "help", "copyright", "credits" or "license" for more information.

>>> print("hello python");

hello python

>>> |
```

To run a Python file **(.py)** on the terminal, we simply type the file name and the file will be interpreted.

Well, we have installed Python3 on our MacOS.