
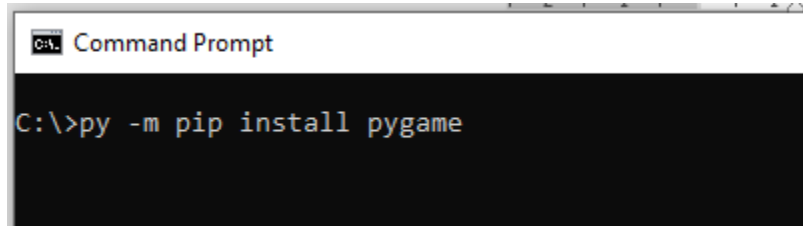


# Installing and Running Pygame

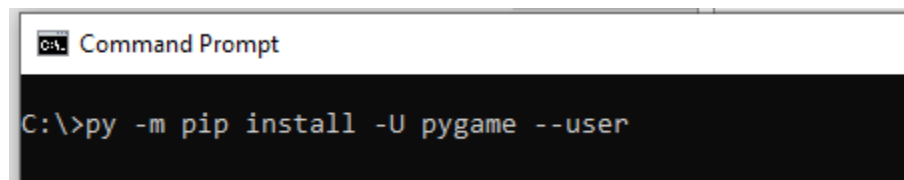
## Installation of Pygame on Windows:

- Close the IDLE Shell and all opened programs
- In the search  type Command Prompt
- In the command prompt type: **py -m pip install pygame**



```
C:\>py -m pip install pygame
```

- Or, **py -m pip install -U pygame --user**



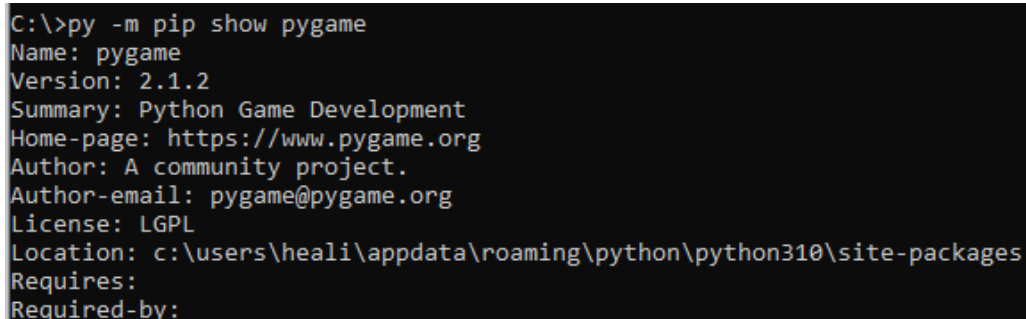
```
C:\>py -m pip install -U pygame --user
```

- You should get a message like this:

```
C:\Users\heali>py -m pip install -U pygame --user
Collecting pygame
  Downloading pygame-2.1.2-cp310-cp310-win_amd64.whl (8.4 MB)
----- 8.4/8.4 MB 8.9 MB/s eta 0:00:00
Installing collected packages: pygame
Successfully installed pygame-2.1.2
WARNING: You are using pip version 22.0.4; however, version 22.3.1 is available.
You should consider upgrading via the 'C:\Users\heali\AppData\Local\Programs\Python\Python310\python.exe -m pip install --upgrade pip' command.
```

Ignore the warning message

- To check what pygame version installed on your machine, use the following command: **C:\>py -m pip show pygame**
- You'll get a message like:



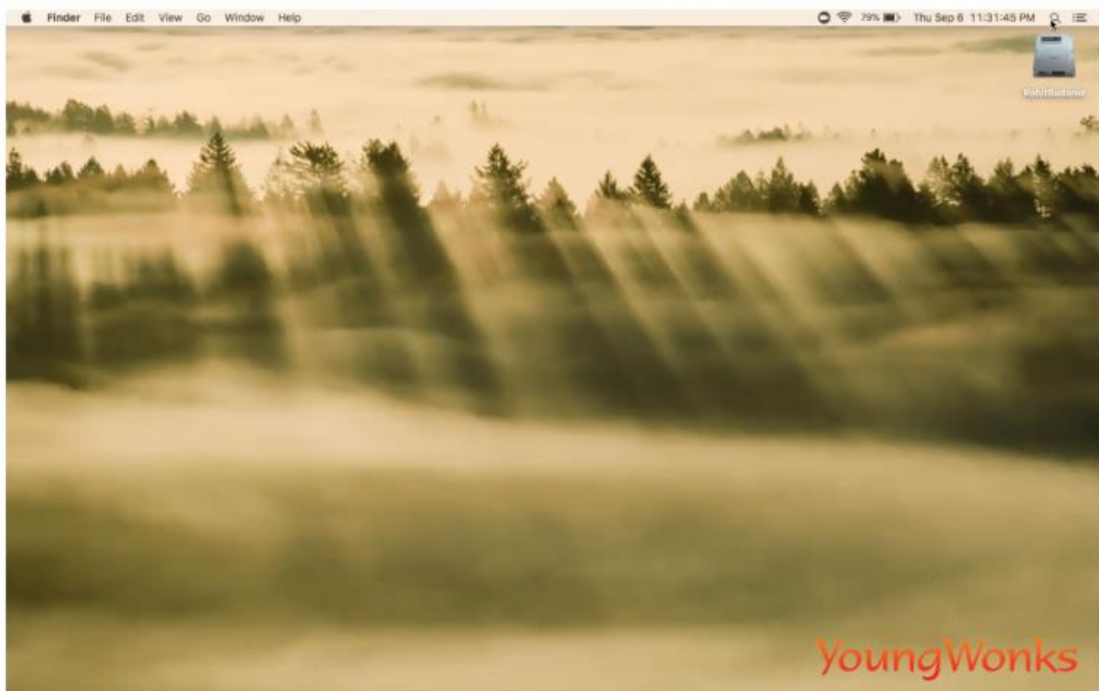
```
C:\>py -m pip show pygame
Name: pygame
Version: 2.1.2
Summary: Python Game Development
Home-page: https://www.pygame.org
Author: A community project.
Author-email: pygame@pygame.org
License: LGPL
Location: c:\users\heali\appdata\roaming\python\python310\site-packages
Requires:
Required-by:
```

- Re-Open the IDLE Shell and python programs and start to apply *pygame* applications and insert different components.

### Installation of Pygame on Mac:

<https://www.youngwonks.com/blog/How-to-Install-PyGame-on-a-Mac>

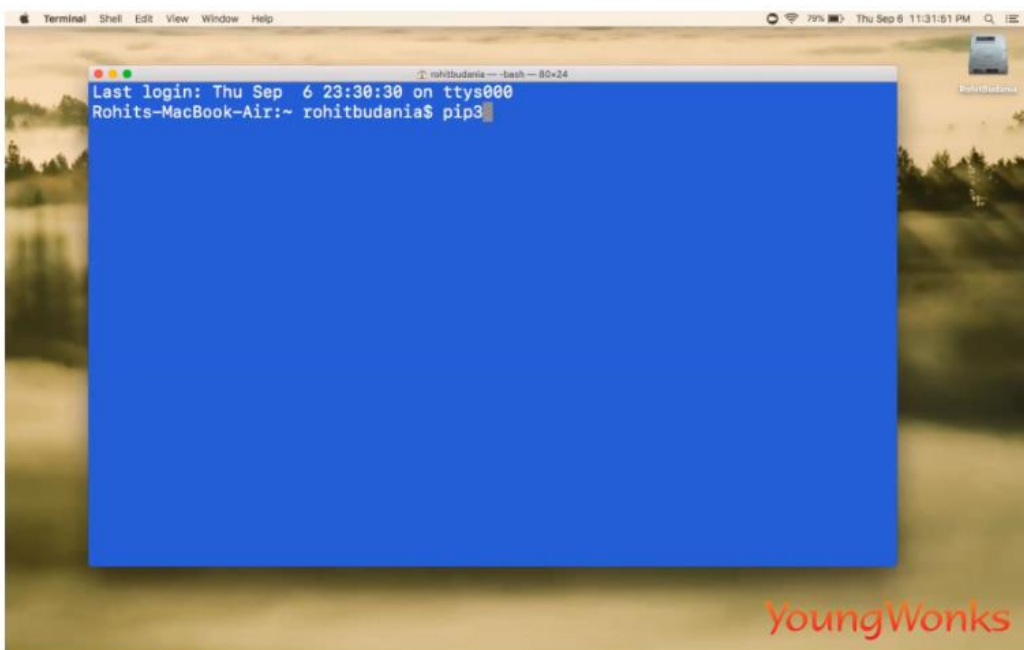
- Close IDLE Shell and all python programs
- Start by opening Spotlight search bar on your Mac. You can do this by taking your cursor to the top right corner of your desktop and clicking on the magnifying glass icon.



- Once you have opened the Spotlight search bar, type terminal in the bar to open terminal.



- Now type pip3



- If you see a bunch of general options on the screen, it means that pip is already installed on your MacBook.

```

Terminal Shell Edit View Window Help
rohitbudania --bash-- 80x24

--log <path>                used up to 3 times (corresponding to WARNING,
--proxy <proxy>              ERROR, and CRITICAL logging levels).
                             Path to a verbose appending log.
--retries <retries>          Specify a proxy in the form
                             [user:passwd@]proxy.server:port.
                             Maximum number of retries each connection should
                             attempt (default 5 times).
--timeout <sec>              Set the socket timeout (default 15 seconds).
--exists-action <action>     Default action when a path already exists:
                             (s)witch, (i)gnore, (w)ipe, (b)ackup, (a)bort).
--trusted-host <hostname>   Mark this host as trusted, even though it does
                             not have valid or any HTTPS.
--cert <path>                Path to alternate CA bundle.
--client-cert <path>         Path to SSL client certificate, a single file
                             containing the private key and the certificate
                             in PEM format.
--cache-dir <dir>            Store the cache data in <dir>.
--no-cache-dir               Disable the cache.
--disable-pip-version-check  Don't periodically check PyPI to determine
                             whether a new version of pip is available for
                             download. Implied with --no-index.
--no-color                   Suppress colored output
Rohits-MacBook-Air:~ rohitbudania$

```

YoungWorks

- Now type pip3 install pygame as shown in this (below) image.

```

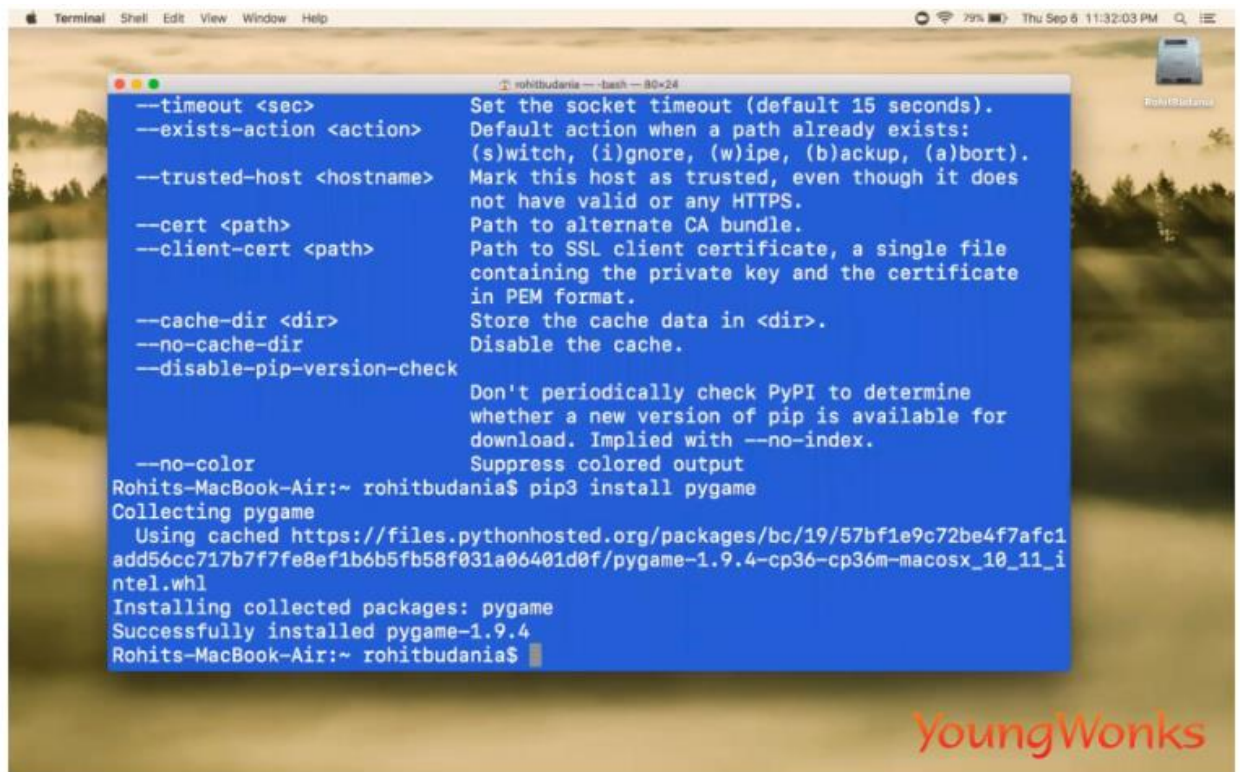
Terminal Shell Edit View Window Help
rohitbudania --bash-- 80x24

--log <path>                ERROR, and CRITICAL logging levels).
--proxy <proxy>              Path to a verbose appending log.
--retries <retries>          Specify a proxy in the form
                             [user:passwd@]proxy.server:port.
                             Maximum number of retries each connection should
                             attempt (default 5 times).
--timeout <sec>              Set the socket timeout (default 15 seconds).
--exists-action <action>     Default action when a path already exists:
                             (s)witch, (i)gnore, (w)ipe, (b)ackup, (a)bort).
--trusted-host <hostname>   Mark this host as trusted, even though it does
                             not have valid or any HTTPS.
--cert <path>                Path to alternate CA bundle.
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                             whether a new version of pip is available for
                             download. Implied with --no-index.
--no-color                   Suppress colored output
Rohits-MacBook-Air:~ rohitbudania$ pip3 install pygame

```

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- The installation will start at this point, and you need to wait till the PyGame installation is done. You'll know it's done when you see a message (as shown below) saying successfully installed pygame.



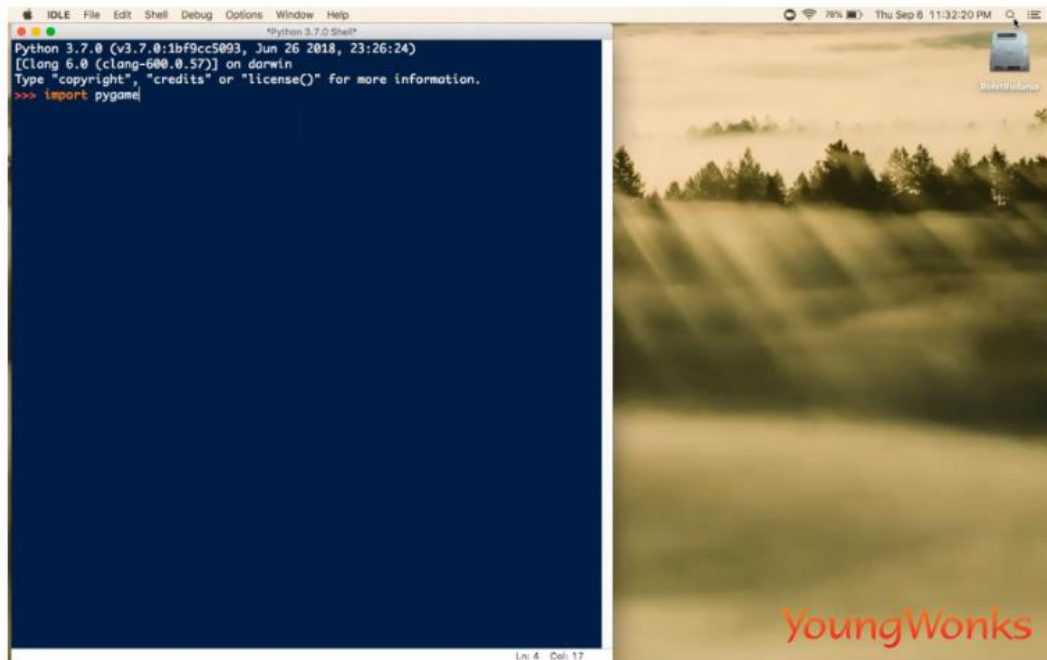
A screenshot of a macOS Terminal window. The window title is "Terminal" with menu options "Shell", "Edit", "View", "Window", and "Help". The status bar at the top right shows "79%", "Thu Sep 6 11:32:03 PM", and a search icon. The terminal content shows the command `pip3 install pygame` being executed. It displays the collection of the package from a cached URL, the installation of the collected package, and the final message "Successfully installed pygame-1.9.4". The prompt is `Rohits-MacBook-Air:~ rohitbudania$`. A "YoungWonks" logo is visible in the bottom right corner of the image.

```
--timeout <sec>          Set the socket timeout (default 15 seconds).
--exists-action <action>  Default action when a path already exists:
                           (s)witch, (i)gnore, (w)ipe, (b)ackup, (a)bort).
--trusted-host <hostname> Mark this host as trusted, even though it does
                           not have valid or any HTTPS.
--cert <path>             Path to alternate CA bundle.
--client-cert <path>      Path to SSL client certificate, a single file
                           containing the private key and the certificate
                           in PEM format.
--cache-dir <dir>         Store the cache data in <dir>.
--no-cache-dir            Disable the cache.
--disable-pip-version-check
                           Don't periodically check PyPI to determine
                           whether a new version of pip is available for
                           download. Implied with --no-index.
--no-color                Suppress colored output
Rohits-MacBook-Air:~ rohitbudania$ pip3 install pygame
Collecting pygame
  Using cached https://files.pythonhosted.org/packages/bc/19/57bf1e9c72be4f7afc1
add56cc717b7f7fe8ef1b6b5fb58f031a06401d0f/pygame-1.9.4-cp36-cp36m-macosx_10_11_i
ntel.whl
Installing collected packages: pygame
Successfully installed pygame-1.9.4
Rohits-MacBook-Air:~ rohitbudania$
```

- To test if PyGame has been installed on your Mac, open IDLE by typing IDLE in your Spotlight search bar.



- Then type `import pygame` as shown in the image.



- If you do not see any error, it means that PyGame has been successfully installed on your Mac.
- Re-Open the IDLE Shell and python programs and start to apply [pygame](#) applications and insert different components.