

# Python Environment Setup on macOS

## 1. Install Package Manager

- [Homebrew](#)

It is the **package manager** for macOS. Following the install step on the website to install it.

```
kakalin > ~/Projects/pyenv-setup-tutorials > brew -v
Homebrew 2.1.11
Homebrew/homebrew-core (git revision 0e28f; last commit 2019-09-28)
Homebrew/homebrew-cask (git revision 0b1a8; last commit 2019-09-28)
kakalin > ~/Projects/pyenv-setup-tutorials >
```

## 2. Install Python3

### 2-1. Homebrew

```
$ brew install python
```

### 2-2. Miniconda

#### 1. Download installer

```
$ wget https://repo.anaconda.com/miniconda/Miniconda3-latest-MacOSX-x86_64.sh
```

#### 2. Install

```
# install miniconda in ~/opt
$ mkdir -p ~/opt
$ chmod +x Miniconda3-latest-MacOSX-x86_64.sh
$ bash Miniconda3-latest-MacOSX-x86_64.sh
```

```
kakalin > ~/Projects/pyenv-setup-tutorials/macOS > mkdir -p ~/opt
kakalin > ~/Projects/pyenv-setup-tutorials/macOS > bash Miniconda3-latest-MacOSX-x86_64.sh

Welcome to Miniconda3 4.7.12

In order to continue the installation process, please review the license
agreement.
Please, press ENTER to continue
>>>
```

```

Do you accept the license terms? [yes|no]
[no] >>> yes

Miniconda3 will now be installed into this location:
/Users/kakalin/miniconda3

- Press ENTER to confirm the location
- Press CTRL-C to abort the installation
- Or specify a different location below

[/Users/kakalin/miniconda3] >>> /Users/kakalin/opt/miniconda3

```

```

Preparing transaction: done
Executing transaction: done
installation finished.
WARNING:
  You currently have a PYTHONPATH environment variable set. This may cause
  unexpected behavior when running the Python interpreter in Miniconda3.
  For best results, please verify that your PYTHONPATH only points to
  directories of packages that are compatible with the Python interpreter
  in Miniconda3: /Users/kakalin/opt/miniconda3
Do you wish the installer to initialize Miniconda3
by running conda init? [yes|no]
[yes] >>> yes
no change      /Users/kakalin/opt/miniconda3/condabin/conda
no change      /Users/kakalin/opt/miniconda3/bin/conda
no change      /Users/kakalin/opt/miniconda3/bin/conda-env
no change      /Users/kakalin/opt/miniconda3/bin/activate
no change      /Users/kakalin/opt/miniconda3/bin/deactivate
no change      /Users/kakalin/opt/miniconda3/etc/profile.d/conda.sh
no change      /Users/kakalin/opt/miniconda3/etc/fish/conf.d/conda.fish
no change      /Users/kakalin/opt/miniconda3/shell/condabin/Conda.psm1
no change      /Users/kakalin/opt/miniconda3/shell/condabin/conda-hook.ps1
no change      /Users/kakalin/opt/miniconda3/lib/python3.7/site-packages/xontrib/conda.xsh
no change      /Users/kakalin/opt/miniconda3/etc/profile.d/conda.csh
modified       /Users/kakalin/.bash_profile

==> For changes to take effect, close and re-open your current shell. <==

If you'd prefer that conda's base environment not be activated on startup,
set the auto_activate_base parameter to false:

conda config --set auto_activate_base false

Thank you for installing Miniconda3!

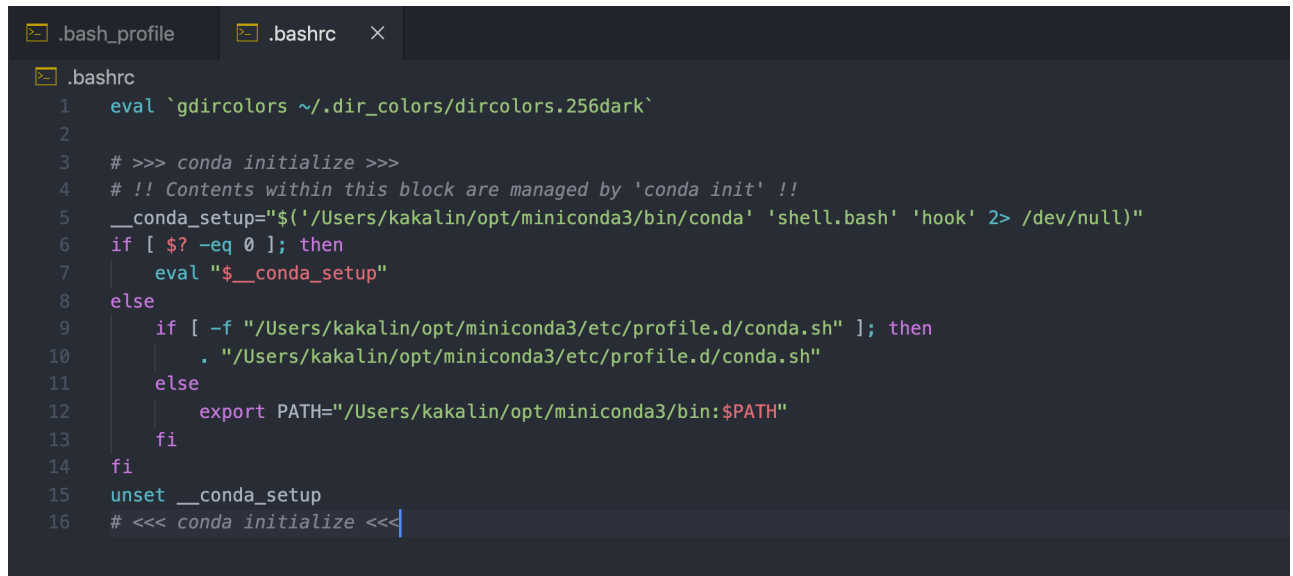
```

### 3. Activate conda

- `bash`
- `zsh`

## 1. bash

- Copy `conda initialize` in `~/.bash_profile` to `~/.bashrc`, as below:



```
.bashrc
1  eval `gdircolors ~/.dir_colors/dircolors.256dark`
2
3  # >>> conda initialize >>>
4  # !! Contents within this block are managed by 'conda init' !!
5  __conda_setup="$(('/Users/kakalin/opt/miniconda3/bin/conda' 'shell.bash' 'hook' 2> /dev/null)"
6  if [ $? -eq 0 ]; then
7      eval "$__conda_setup"
8  else
9      if [ -f "/Users/kakalin/opt/miniconda3/etc/profile.d/conda.sh" ]; then
10         . "/Users/kakalin/opt/miniconda3/etc/profile.d/conda.sh"
11     else
12         export PATH="/Users/kakalin/opt/miniconda3/bin:$PATH"
13     fi
14 fi
15 unset __conda_setup
16 # <<< conda initialize <<<
```

- Activate

```
$ source ~/.bashrc # or open new Terminal
```

```
(base) bash-3.2$ conda -V
conda 4.7.12
(base) bash-3.2$ python3 -V
Python 3.7.4
(base) bash-3.2$ pip -V
pip 19.3.1 from /Users/kakalin/opt/miniconda3/lib/python3.7/site-packages/pip (python 3.7)
(base) bash-3.2$
```

## 2. zsh

- Copy `conda initialize` in `~/.bash_profile` to `~/.zshrc`, as below:

- Activate

```
$ source ~/.zshrc # or open new Terminal
```