SI 506 Programming I

macOS: Using pip to install the requests package

[Home](#) / [Resources](#) / [Guide install mac requests package](#)

Anaconda users

If you have installed [Anaconda](#) the [requests](#) package is included in the distribution. Anaconda utilizes [Conda](#) rather than pip as its package manager.

❗ If Anaconda is not installed on your machine, ignore the conda commands listed below and proceed to the pip instructions.

Run the following commands from the terminal to verify your conda install, update conda (if necessary), and update the requests package (again, if necessary).

1. Verify conda installation, check version

```
conda info
```

2. Update conda

```
conda update conda
```

3. Update requests package

```
conda update requests
```

4. Update all packages

```
conda update --all
```

1.0 About pip

pip is Python's default package installer. `pip` provides a pain-free way of installing community-developed Python packages that extend the Python standard library.

Since Python 3.4 `pip` comes bundled with the release so you do not need to install it, although you may need to upgrade it if the version installed on your machine is outdated.

2.0 Install the requests package

Follow the steps below to install the `requests` package.

2.1 Open Bash terminal

Open `Terminal.app` (or another terminal emulator such as iTerm2). Using the Finder navigate manually to `Application/Utilities`or type `[Shift] + [Command] + U`. Double-click the `Terminal.app` to open.

💡 I recommend adding `Terminal.app` to your Dock.

2.2 Check Python version

Not strictly necessary, but always a good practice.

```
python3 --version

Python 3.9.7
```

2.3 Check pip version

Enter the following command:

```
python3 -m pip --version

pip 21.3.1 from /usr/local/lib/python3.9/site-packages/pip (python 3.9)
```

💡 The -m option instructs the Python interpreter to run the pip module as a script.

⚠️ If you try to invoke pip directly you are liable to encounter the following warning:

```
pip --version

WARNING: pip is being invoked by an old script wrapper. This will fail in a fut
Please see https://github.com/pypa/pip/issues/5599 for advice on fixing the und
To avoid this problem you can invoke Python with '-m pip' instead of running pi

pip 21.3.1 from /usr/local/lib/python3.9/site-packages/pip (python 3.9)
```

2.4 Update pip

If running a version of pip < 22.3.1 consider updating it:

```
python3 -m pip install -U pip
```

2.5 List installed packages

Check your currently installed packages. The example output below is a minimal listing of installed packages. You may encounter more packages, indeed, significantly more packages, if you installed Python 3.x using Anaconda or have installed Python packages previously.

```
python3 -m pip list
```

```
Package    Version
---------- -------
pip        21.3.1
setuptools 57.4.0
wheel      0.37.0
```

If the requests package does not appear in the list of installed packages proceed to step 1.6.

❗ If the requests package is currently installed check if it is outdated. If it is outdated, consider updating the package.

```
python3 -m pip list --outdated
python3 -m pip install --upgrade requests
```

2.6 Install the requests package

Install the requests package.

❗ The package name is "requests" (plural) *not* "request".

```
python3 -m pip install requests
```

Installing the requests package will also install a number of additional packages that the requests libraries relies on (i.e., dependencies). When complete the a "Successfully installed" line will be written to the screen.

```
Successfully installed . . . [installed package versions listed]
```

2.7 List installed packages (recheck)

Issue the `pip list` command to return a list of the all installed packages. Confirm that the requests package has been installed.

```
python3 -m pip list
```

```
Package    Version
---------- ---------
...
requests   2.26.0
...
```

👍 Congratulations. Your package install work is done.

3.0 Other useful pip commands

3.1 Check for outdated packages

```
python3 -m pip list --outdated
```

```
Package     Version Latest Type
---------- ------- ------ -----
requests    2.25.0  2.26.0 wheel
```

3.2 Upgrade a package

```
python3 -m pip install --upgrade requests
```

3.3 Delete a package

```
python3 -m pip uninstall requests
```

4.0 Documentation

pip: https://pip.pypa.io/en/stable/

requests: https://requests.readthedocs.io/en/master/