Installing Pandas on a Mac using pip

These installation instructions are for installing the Python pandas package on a Mac. In addition, when using the read_html function in pandas we will need to install another package, named “lxml”, so the installation of that package is also demonstrated.

Step 0. Identifying that pandas package not installed.

If you try to execute Python code that imports pandas, you will receive a ModuleNotFoundError: No module named ‘pandas” if you have not installed the panda’s package yet.

Step 1. Activate terminal window.

To install pandas on a Mac, I need to go to the terminal window. In the image below, there is a terminal icon on the Dock. If you haven’t used the terminal yet, this image may not appear here, and you need to go to the Utilities window to run the terminal. After you run it the first time, the icon should appear on the Dock.

Step 2. Identify installed Python packages.

When you click on that icon, type “pip3.7 list” at the prompt and enter (if you are using Python 3.8, type “pip3.8 list”, etc). Note that “certifi” should be listed if we followed the correct steps when installing Python (installing certificates will be required when we read data from the web using Python on a Mac). If not, you can return to the window with the Python files and run install certificates:

Step 3. Install Python pandas package.

Now to install pandas, type "pip3.7 install pandas" (I have to use the "--user" at the end since I am using a university computer and I need to bypass some security settings):

```
localdmluser — -bash — 133×33

lmb-1910:~ localdmluser$ pip3.7 list
Package    Version
---------- ---------
certifi    2020.6.20
pip        20.1.1
setuptools 47.1.0
WARNING: You are using pip version 20.1.1; however, version 20.2.4 is available.
You should consider upgrading via the '/Library/Frameworks/Python.framework/Versions/3.7/bin/python3.7 -m pip install --upgrade pip'
command.
lmb-1910:~ localdmluser$ pip3.7 install pandas --user
Collecting pandas
  Downloading pandas-1.1.3-cp37-cp37m-macosx_10_9_x86_64.whl (9.9 MB)
     |[redacted]| 9.9 MB 783 kB/s
Collecting python-dateutil>=2.7.3
  Downloading python_dateutil-2.8.1-py2.py3-none-any.whl (227 kB)
     |[redacted]| 227 kB 997 kB/s
Collecting numpy>=1.15.4
  Downloading numpy-1.19.2-cp37-cp37m-macosx_10_9_x86_64.whl (15.3 MB)
     |[redacted]| 15.3 MB 715 kB/s
Collecting pytz>=2017.2
  Downloading pytz-2020.1-py2.py3-none-any.whl (510 kB)
     |[redacted]| 510 kB 951 kB/s
Collecting six>=1.5
  Downloading six-1.15.0-py2.py3-none-any.whl (10 kB)
Installing collected packages: six, python-dateutil, numpy, pytz, pandas
  WARNING: The scripts f2py, f2py3 and f2py3.7 are installed in '/Users/localdmluser/Library/Python/3.7/bin' which is not on PATH.
  Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.
Successfully installed numpy-1.19.2 pandas-1.1.3 python-dateutil-2.8.1 pytz-2020.1 six-1.15.0
WARNING: You are using pip version 20.1.1; however, version 20.2.4 is available.
You should consider upgrading via the '/Library/Frameworks/Python.framework/Versions/3.7/bin/python3.7 -m pip install --upgrade pip'
command.
lmb-1910:~ localdmluser$
```

Step 4. Verify that Python pandas package has been installed.

Now go back to the terminal and use the command "pip3.7 list" to see which Python packages are installed. You will now see pandas in the list displayed. Next, install another package, lxml (using "pip3.7 install lxml"), that we will use when reading files from the web. In the figure below, I install that package. You could then list the packages after installing lxml (using the command "pip3.7 list"), showing that the lxml package has been installed.

```
localdmluser — -bash — 117×41

Last login: Sun Oct 18 11:06:24 on ttys000
lmb-1910:~ localdmluser$ pip3.7 list
Package         Version
--------------- ---------
certifi         2020.6.20
numpy           1.19.2
pandas          1.1.3
pip             20.1.1
python-dateutil 2.8.1
pytz            2020.1
setuptools      47.1.0
six             1.15.0
WARNING: You are using pip version 20.1.1; however, version 20.2.4 is available.
You should consider upgrading via the '/Library/Frameworks/Python.framework/Versions/3.7/bin/python3.7 -m pip install
 --upgrade pip' command.
lmb-1910:~ localdmluser$ pip3.7 install lxml --user
Collecting lxml
  Downloading lxml-4.6.1-cp37-cp37m-macosx_10_9_x86_64.whl (4.5 MB)
     |[redacted]| 4.5 MB 870 kB/s
Installing collected packages: lxml
Successfully installed lxml-4.6.1
WARNING: You are using pip version 20.1.1; however, version 20.2.4 is available.
You should consider upgrading via the '/Library/Frameworks/Python.framework/Versions/3.7/bin/python3.7 -m pip install
 --upgrade pip' command.
lmb-1910:~ localdmluser$
```

Now if you open IDLE and execute your code that imports pandas you should no longer get the ModuleNotFoundError.