

Installing Pandas on a Windows machine using pip

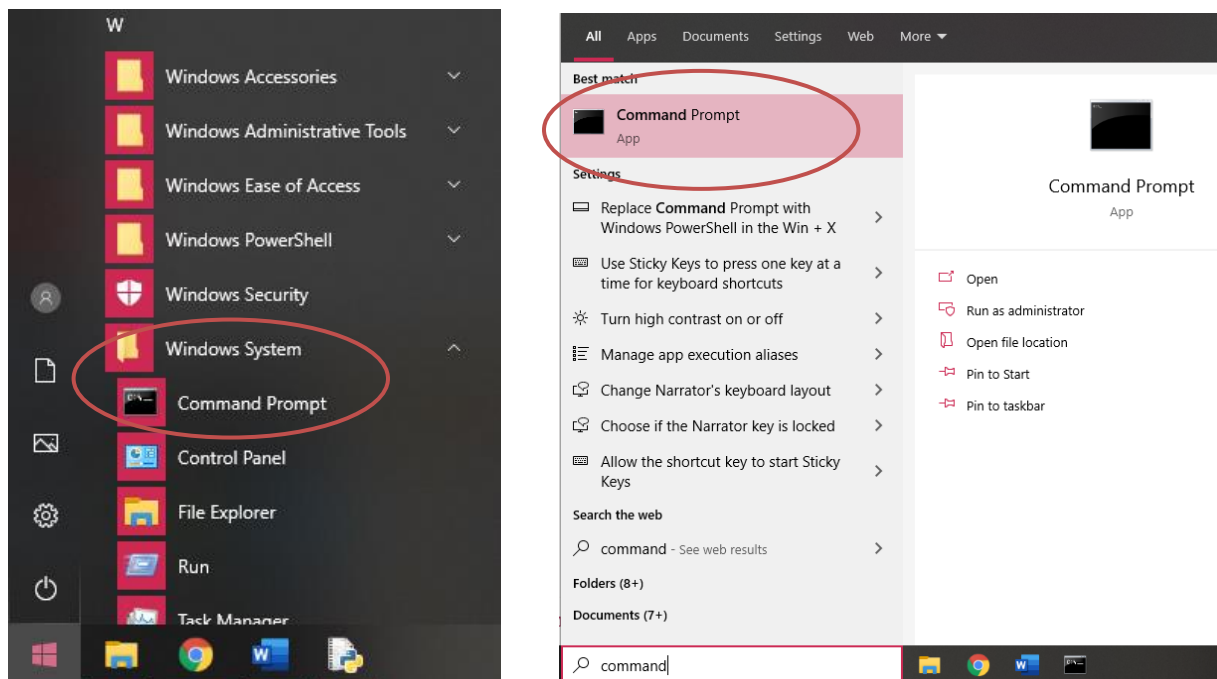
These installation instructions are for installing the Python pandas package on a Windows machine. In addition, when using the `read_html` function in pandas we will need to install another package, named "lxml", so the installation of that package is also demonstrated.

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 pandas package yet.

Step 1. Activate command prompt window.

To install pandas on a Windows machine, you need to go to the command prompt window. In the image below, I used the start button to display a list of installed programs, and under the Windows System is the command prompt. Alternatively, you can just type "command" in the search bar and click on the command prompt selection.



Step 2. Identify installed Python packages.

When you click on that icon, type “pip3.7 list” at the prompt and enter (if using Python 3.8, type “pip3.8 list”, etc).

```
Microsoft Windows [Version 10.0.18363.1130]
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C:\Users\fredk>pip3.7 list
Package      Version
-----
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 'c:\users\fredk\appdata\local\programs\python\python37\python.exe -m pip install --upgrade pip' command.

C:\Users\fredk>
```

Step 3. Install Python pandas package.

Now to install pandas, type “pip3.7 install pandas” (If you have Python 3.8 installed, type “pip3.8 install pandas”, etc.).

```
Command Prompt

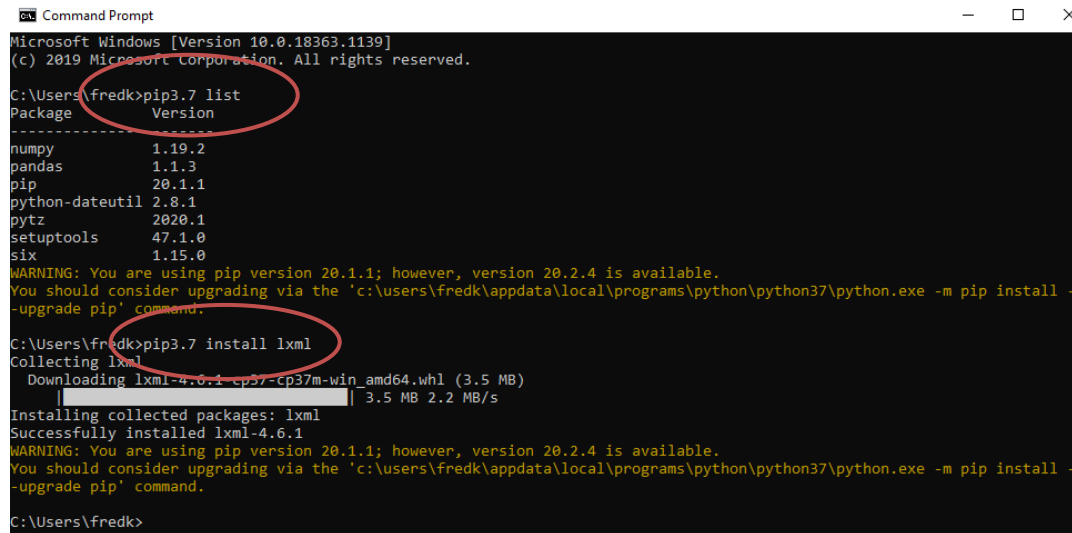
C:\Users\fredk>pip3.7 list
Package      Version
-----
pip          20.1.1
setuptools   47.1.0
WARNING: You are using pip version 20.1.1; however, version 20.2.4 is available.
You should consider upgrading via the 'c:\users\fredk\appdata\local\programs\python\python37\python.exe -m pip install --upgrade pip' command.

C:\Users\fredk>pip3.7 install pandas
Collecting pandas
  Downloading pandas-1.1.3-cp37-cp37m-win_amd64.whl (8.7 MB)
    | 8.7 MB 939 kB/s
Collecting pytz>=2017.2
  Using cached pytz-2020.1-py2.py3-none-any.whl (510 kB)
Collecting numpy>=1.15.4
  Downloading numpy-1.19.2-cp37-cp37m-win_amd64.whl (12.9 MB)
    | 12.9 MB 819 kB/s
Collecting python-dateutil>=2.7.3
  Using cached python_dateutil-2.8.1-py2.py3-none-any.whl (227 kB)
Collecting six>=1.5
  Using cached six-1.15.0-py2.py3-none-any.whl (10 kB)
Installing collected packages: pytz, numpy, six, python-dateutil, pandas
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 'c:\users\fredk\appdata\local\programs\python\python37\python.exe -m pip install --upgrade pip' command.

C:\Users\fredk>
```

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. In the figure below, I list the packages after installing pandas. Next, install another package, lxml (using “pip3.7 install lxml”), that we will use when reading files from the web.



```
Command Prompt
Microsoft Windows [Version 10.0.18363.1139]
(c) 2019 Microsoft Corporation. All rights reserved.

C:\Users\Fredk>pip3.7 list
Package            Version
-----
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 'c:\users\fredk\appdata\local\programs\python\python37\python.exe -m pip install --upgrade pip' command.

C:\Users\Fredk>pip3.7 install lxml
Collecting lxml
  Downloading lxml-4.6.1-cp37-cp37m-win_amd64.whl (3.5 MB)
    | 3.5 MB 2.2 MB/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 'c:\users\fredk\appdata\local\programs\python\python37\python.exe -m pip install --upgrade pip' command.

C:\Users\Fredk>
```

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