Assignment: Creating, Using, and Deleting Conda Environments

A conda enviornment is a virtual environment implemented as a folder that contains conda packages you have installed. A primary motivation to use virtual environments is to manage dependencies. For example, you may have a legacy project that requires an earlier version of numpy or pandas and a separate project for which you prefer to use the most recent versions. To accomplish this, you create virtual environments and specify the version of packages needed for that environment. Additionally, having unnecessary packages in your environment leads to inefficiencies and a higher probability of conflict.

For this reason, if you are doing specialized work (e.g., a project that requires modules that you don't typically use), you may want to create an environment specifically for that project.

If you have used pip and virtualenv in the past, you can use conda to perform all of the same operations. Pip is a package manager and virtualenv is an environment manager. Conda is both.

This tutorial is only an overview. For a much more detailed understanding of conda, see the docs (https://docs.conda.io/projects/conda/en/latest/user-guide/index.html).

To work with conda *within* this notebook, we'll use magic commands.

Magics are specific to and provided by the IPython kernel. Whether Magics are available on a kernel is a decision that is made by the kernel developer on a per-kernel basis. To work properly, Magics must use a syntax element which is not valid in the underlying language. For example, the IPython kernel uses the % syntax element for Magics as % is not a valid unary operator in Python. (see https://ipython.readthedocs.io/en/stable/interactive/magics.html for more info).

```
In [1]: # List the folders and files in the current directory. This can be useful
        for determining where an output file was written when using a relative pat
        h.
        %ls
        Volume in drive C is Windows-SSD
        Volume Serial Number is 46F9-86EA
        Directory of C:\Users\jbrun\Desktop\UA 2020 - Copy\MIS 1\Module 3 Assignm
       ents
       06/11/2020 04:59 PM
                               <DIR>
       06/11/2020 04:59 PM
                              <DIR>
       06/11/2020 02:13 PM <DIR>
                                             .ipynb checkpoints
       06/11/2020 02:13 PM
                                      5,911 John-Bruno-M3-A1-Working with Anaco
       nda Environments.py
       06/11/2020 04:59 PM
                                     73,733 M3-A1 Working with Anaconda Environ
       ments.ipynb
                      2 File(s)
                                       79,644 bytes
                      3 Dir(s) 304,348,962,816 bytes free
In [2]: # List the packages in the current environment.
```

%conda list

```
# packages in environment at C:\Users\jbrun\anaconda3:
                         Version
                                                   Build Channel
                         0.1.0
ipyw jlab nb ext conf
                                                  py37 0
alabaster
                          0.7.12
                                                  py37 0
                         2020.02
anaconda
                                                  py37 0
                                                  py37 0
anaconda-client
                         1.7.2
anaconda-navigator
                         1.9.12
                                                  py37 0
                                                    py 0
anaconda-project
                         0.8.4
argh
                         0.26.2
                                                  py37 0
asn1crypto
                         1.3.0
                                                  py37 0
astroid
                         2.3.3
                                                  py37 0
                         4.0
                                          py37he774522 0
astropy
                                                  py37 1
                         1.3.0
atomicwrites
attrs
                         19.3.0
                                                    py_ 0
                         1.4.4
autopep8
                                                    py 0
babel
                         2.8.0
                                                    py 0
backcall
                         0.1.0
                                                  py37 0
                                                    py_2
backports
                         1.0
backports.functools lru cache 1.6.1
                                                        py 0
backports.shutil get terminal size 1.0.0
                                                           py37 2
backports.tempfile 1.0
                                                    py 1
backports.weakref
                        1.0.post1
                                                    py 1
                                          py37he774522 0
                         3.1.7
bcrypt
beautifulsoup4
                         4.8.2
                                                  py37 0
                         1.2.1
                                          py37he774522 0
bitarray
                         0.2
bkcharts
                                                  py37 0
blas
                         1.0
                                                     mkl
                         3.1.0
bleach
                                                  py37 0
blosc
                         1.16.3
                                              h7bd577a 0
                         1.4.0
                                                  py37 0
bokeh
boto
                         2.49.0
                                                  py37 0
                         1.3.2
bottleneck
                                          py37h2a96729 0
bzip2
                         1.0.8
                                              he774522 0
ca-certificates
                         2020.1.1
certifi
                         2019.11.28
                                                  py37 0
                                          py37h7a1dbc1 0
cffi
                         1.14.0
chardet
                         3.0.4
                                               py37 1003
                         7.0
click
                                                  py37 0
cloudpickle
                         1.3.0
                                                    py 0
clyent
                         1.2.2
                                                  py37 1
                         0.4.3
colorama
                                                    py 0
                         1.1.7
                                                  py37 0
comtypes
conda
                         4.8.3
                                          py37hc8dfbb8 1
                                                            conda-forge
conda-build
                         3.18.11
                                                  py37 0
conda-env
                         2.6.0
conda-package-handling 1.6.0
                                          py37h62dcd97 0
                         3.4.2
conda-verify
                                                    py 1
console shortcut
                        0.1.1
contextlib2
                        0.6.0.post1
                                                    py 0
                                          py37h7a1dbc1 0
cryptography
                         2.8
curl
                         7.68.0
                                              h2a8f88b 0
                                                  py37 0
                         0.10.0
cycler
                                          py37ha925a31 0
cython
                         0.29.15
cytoolz
                         0.10.1
                                          py37he774522 0
dask
                         2.11.0
                                                    py 0
```

dask-core	2.11.0	py_0
decorator	4.4.1	py_0
defusedxml	0.6.0	py_0
diff-match-patch	20181111	py_0
distributed	2.11.0	py37 0
docutils	0.16	py37 0
entrypoints	0.3	py37 0
et xmlfile	1.0.1	py37 0
fastcache	1.1.0	py37he774522 0
filelock	3.0.12	py_0
flake8	3.7.9	py37_0
flask	1.1.1	py_0
freetype	2.9.1	ha9979f8_1
fsspec	0.6.2	py_0
future	0.18.2	py37_0
get terminal size	1.0.0	h38e98db 0
gevent	1.4.0	py37he774522 0
glob2	0.7	py_0
greenlet	0.4.15	py37hfa6e2cd 0
h5py	2.10.0	py37h1d0e2ed_0
hdf5		h7ebc959 0
	1.10.4	-
heapdict	1.0.1	py_0
html5lib	1.0.1	py37_0
hypothesis	5.5.4	py_0
icc_rt	2019.0.0	h0cc432a_1
icu	58.2	ha66f8fd_1
idna	2.8	py37 0
imageio	2.6.1	py37 0
imagesize	1.2.0	py_0
importlib metadata	1.5.0	py37 0
intel-openmp	2020.0	166
	3.0.2	_
intervaltree		py_0
ipykernel	5.1.4	py37h39e3cac_0
ipython	7.12.0	py37h5ca1d4c_0
ipython_genutils	0.2.0	py37_0
ipywidgets	7.5.1	py_0
isort	4.3.21	py37_0
itsdangerous	1.1.0	py37_0
jdcal	1.4.1	py_0
jedi	0.14.1	py37 0
jinja2	2.11.1	py_0
joblib	0.14.1	py_0
jpeg	9b	hb83a4c4 2
json5	0.9.1	_
		py_0
jsonschema	3.2.0	py37_0
jupyter	1.0.0	py37_7
jupyter_client	5.3.4	py37_0
<pre>jupyter_console</pre>	6.1.0	py_0
jupyter_core	4.6.1	py37_0
jupyterlab	1.2.6	pyhf63ae98_0
jupyterlab_server	1.0.6	py_0
keyring	21.1.0	py37 0
kiwisolver	1.1.0	py37ha925a31 0
krb5	1.17.1	hc04afaa 0
lazy-object-proxy	1.4.3	py37he774522 0
libarchive	3.3.3	h0643e63 5
		_
libcurl	7.68.0	h2a8f88b_0

libiconv	1.15	h1df5818 7	
liblief	0.9.0	ha925a31 2	
libpng	1.6.37	h2a8f88b 0	
libsodium	1.0.16	h9d3ae62 0	
libspatialindex	1.9.3	h33f27b4 0	
libssh2		_	
	1.8.2	h7a1dbc1_0	
libtiff	4.1.0	h56a325e_0	
libxm12	2.9.9	h464c3ec_0	
libxslt	1.1.33	h579f668_0	
llvmlite	0.31.0	py37ha925a31 0	
locket	0.2.0	py37 1	
lxml	4.5.0	py37h1350720 0	
1z4-c	1.8.1.2	h2fa13f4 0	
lzo	2.10	h6df0209 2	
		-	
m2w64-gcc-libgfortran	5.3.0	6	
m2w64-gcc-libs	5.3.0	7	
m2w64-gcc-libs-core	5.3.0	7	
m2w64-gmp	6.1.0	2	
m2w64-libwinpthread-git	5.0.0.4634.697f7	57	2
markupsafe	1.1.1	py37he774522 0	
matplotlib	3.1.3	py37 0	
matplotlib-base	3.1.3	py37h64f37c6 0	
mccabe	0.6.1	py37_1	
menuinst	1.4.16	py37he774522_0	
mistune	0.8.4	py37he774522_0	
mkl	2020.0	166	
mkl-service	2.3.0	py37hb782905 0	
mkl fft	1.0.15	py37h14836fe 0	
mkl random	1.1.0	py37h675688f 0	
mock	4.0.1	py_0	
more-itertools	8.2.0	-	
		py_0	
mpmath	1.1.0	py37_0	
msgpack-python	0.6.1	py37h74a9793_1	
msys2-conda-epoch	20160418	1	
multipledispatch	0.6.0	py37_0	
navigator-updater	0.2.1	py37 0	
nbconvert	5.6.1	py37 0	
nbformat	5.0.4	py_0	
networkx	2.4	py_0	
nltk	3.4.5	py37 0	
		_	
nodejs	0.1.1	pypi_0	pypi
nose	1.3.7	py37_2	
notebook	6.0.3	py37_0	
npm	0.1.1	pypi_0	pypi
numba	0.48.0	py37h47e9c7a_0	
numexpr	2.7.1	py37h25d0782 0	
numpy	1.18.1	py37h93ca92e 0	
numpy-base	1.18.1	py37hc3f5095 1	
numpydoc	0.9.2	py_0	
olefile	0.46	py37_0	
openpyxl	3.0.3	py_0	
openssl	1.1.1d	he774522_4	
optional-django	0.1.0	pypi_0	pypi
packaging	20.1	py_0	
pandas	1.0.1	py37h47e9c7a 0	
pandoc	2.2.3.2		
pandocfilters	1.4.2	py37 1	
		F10,	

paramiko	2.7.1	py_0	
parso	0.5.2	py_0	
partd	1.1.0	py_0	
path	13.1.0	py37 0	
path.py	12.4.0	P Y S / _ 0	
pathlib2	2.3.5	py37 0	
pathtools	0.1.2	_	
	0.5.1	py_1	
patsy		py37_0	
pep8	1.7.1	py37_0	
pexpect	4.8.0	py37_0	
pickleshare	0.7.5	py37_0	
pillow	7.0.0	py37hcc1f983_0	
pip	20.0.2	py37_1	
pkginfo	1.5.0.1	py37_0	
pluggy	0.13.1	py37_0	
ply	3.11	py37_0	
powershell_shortcut	0.0.1	3	
prometheus_client	0.7.1	py_0	
<pre>prompt_toolkit</pre>	3.0.3	ру_0	
psutil	5.6.7	py37he774522_0	
ру	1.8.1	ру_0	
py-lief	0.9.0	py37ha925a31_2	
pycodestyle	2.5.0	py37_0	
pycosat	0.6.3	py37he774522 0	
pycparser	2.19	py37 0	
pycrypto	2.6.1	py37hfa6e2cd 9	
pycurl	7.43.0.5	py37h7a1dbc1 0	
pydocstyle	4.0.1	py_0	
pyflakes	2.1.1	py37 0	
pygments	2.5.2	py_0	
pylint	2.4.4	py37 0	
pynacl	1.3.0	py37h62dcd97 0	
pyodbc	4.0.30	py37ha925a31 0	
pyopenssl	19.1.0	py37 0	
pyparsing	2.4.6	py 0	
	5.9.2	py37h6538335 2	
pyqt pyreadline	2.1	py37110330333_2 py37 1	
pyreadilne pyrsistent	0.15.7	py37_1 py37he774522 0	
pysocks	1.7.1	py37_0	
pytables	3.6.1	py37h1da0976_0	
pytest	5.3.5	py37_0	
pytest-arraydiff	0.3	py37h39e3cac_0	
pytest-astropy	0.8.0	py_0	
pytest-astropy-header	0.1.2	py_0	
pytest-doctestplus	0.5.0	b\^0	
pytest-openfiles	0.4.0	by_0	
pytest-remotedata	0.3.2	py37_0	
python	3.7.6	h60c2a47_2	
python-dateutil	2.8.1	b\\^0	
python-jsonrpc-server	0.3.4	b\\^0	
python-language-server	0.31.7	py37_0	
python-libarchive-c	2.8	py37_13	
python_abi	3.7	1_cp37m	conda-forge
pytz	2019.3	py_0	
pywavelets	1.1.1	py37he774522_0	
pywin32	227	py37he774522_1	
pywin32-ctypes	0.2.0	py37_1000	

		0.7.0
pywinpty	0.5.7	py37_0
pyyaml	5.3	py37he774522_0
pyzmq	18.1.1	py37ha925a31_0
qdarkstyle	2.8	py_0
qt	5.9.7	vc14h73c81de_0
qtawesome	0.6.1	py_0
qtconsole	4.6.0	py_1
qtpy	1.9.0	py_0
requests	2.22.0	py37 1
rope	0.16.0	py 0
rtree	0.9.3	py37h21ff451 0
ruamel_yaml	0.15.87	py37he774522 0
scikit-image	0.16.2	py37h47e9c7a 0
scikit-learn	0.22.1	py37h6288b17 0
scipy	1.4.1	py37h9439919 0
seaborn	0.10.0	py_0
send2trash	1.5.0	py37 0
	45.2.0	_
setuptools	0.8.1	py37_0
simplegeneric		py37_2
singledispatch	3.4.0.3	py37_0
sip	4.19.8	py37h6538335_0
six	1.14.0	py37_0
snappy	1.1.7	h777316e_3
snowballstemmer	2.0.0	b_0
sortedcollections	1.1.2	py37_0
sortedcontainers	2.1.0	py37_0
soupsieve	1.9.5	py37_0
sphinx	2.4.0	py_0
sphinxcontrib	1.0	py37_1
sphinxcontrib-applehelp	1.0.1	ру_0
sphinxcontrib-devhelp	1.0.1	ру_0
sphinxcontrib-htmlhelp	1.0.2	py_0
sphinxcontrib-jsmath	1.0.1	py_0
sphinxcontrib-qthelp	1.0.2	py_0
sphinxcontrib-serializing	html 1.1.3	py_0
sphinxcontrib-websupport	1.2.0	ру_0
spyder	4.0.1	py37_0
spyder-kernels	1.8.1	py37_0
sqlalchemy	1.3.13	py37he774522 0
sqlite	3.31.1	he774522 0
statsmodels	0.11.0	py37he774522 0
sympy	1.5.1	py37 0
tbb	2020.0	h74a9793 0
tblib	1.6.0	py_0
terminado	0.8.3	py37 0
testpath	0.4.4	py_0
tk	8.6.8	hfa6e2cd 0
toolz	0.10.0	py_0
tornado	6.0.3	py37he774522 3
tqdm	4.42.1	py_0
traitlets	4.3.3	py37 0
ujson	1.35	py37hfa6e2cd 0
unicodecsv	0.14.1	py37 0
urllib3	1.25.8	py37_0
VC	14.1	h0510ff6 4
vs2015 runtime	14.16.27012	hf0eaf9b 1
watchdog	0.10.2	py37 0
		F10, _0

wcwidth	0.1.8	ру_0
webencodings	0.5.1	py37_1
werkzeug	1.0.0	ру_0
wheel	0.34.2	py37_0
widgetsnbextension	3.5.1	py37_0
win_inet_pton	1.1.0	py37_0
win_unicode_console	0.5	py37_0
wincertstore	0.2	py37_0
winpty	0.4.3	4
wrapt	1.11.2	py37he774522_0
xlrd	1.2.0	py37_0
xlsxwriter	1.2.7	py_0
xlwings	0.17.1	py37_0
xlwt	1.3.0	py37_0
xmltodict	0.12.0	ру_0
XZ	5.2.4	h2fa13f4_4
yaml	0.1.7	hc54c509_2
yapf	0.28.0	ру_0
zeromq	4.3.1	h33f27b4_3
zict	1.0.0	ру_0
zipp	2.2.0	ру_0
zlib	1.2.11	h62dcd97_3
zstd	1.3.7	h508b16e_0

Note: you may need to restart the kernel to use updated packages.

List the environments on your system. You should at least have the base environment.

Note: you may need to restart the kernel to use updated packages.

Create a new environment named 'temp'

To create a conda virtual environment, **Using an Anaconda prompt (NOT a magic command)**, type the following: conda create -n temp

temp

argh

Note: you may need to restart the kernel to use updated packages.

Using the Conda Cheat sheet, remove the temp environment.

Create a new environment called msba by cloning the base environment. Again, do this at the Anaconda prompt, not in Jupyter Lab.

```
In [6]: # List the environments
        %conda env list
        # conda environments:
                                C:\Users\jbrun\Anaconda3
                                C:\Users\jbrun\AppData\Local\Orange
                             * C:\Users\jbrun\anaconda3
       base
                                C:\Users\jbrun\anaconda3\envs\msba
       msba
       Note: you may need to restart the kernel to use updated packages.
In [7]: # List the packages in the msba environment (refer to the cheat sheet)
        %conda list --name msba
        # I had to redo some things and still shows I have bs4 in this env, not su
        # packages in environment at C:\Users\jbrun\anaconda3\envs\msba:
                                Version
                                                          Build Channel
        _ipyw_jlab_nb_ext conf
                               0.1.0
                                                         py37 0
       alabaster
                               0.7.12
                                                         py37 0
       anaconda
                                2020.02
                                                         py37 0
       anaconda-client
                               1.7.2
                                                         py37 0
       anaconda-navigator
                               1.9.12
                                                        py37 0
       anaconda-project
                                0.8.4
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ру37 0

0.26.2

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1.3.0
                                                  py37 0
asn1crypto
astroid
                         2.3.3
                                                  py37 0
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astropy
atomicwrites
                         1.3.0
                                                  py37 1
                         19.3.0
                                                    py 0
attrs
                         1.4.4
autopep8
                                                    py 0
babel
                         2.8.0
                                                    py 0
                         0.1.0
backcall
                                                  py37 0
backports
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                                                    ру_2
backports.functools lru cache 1.6.1
                                                        py 0
                                                           py37 2
backports.shutil get terminal size 1.0.0
backports.tempfile 1.0
                                                    py. 1
backports.weakref
                        1.0.post1
                                                    py 1
                                          py37he774522 0
                         3.1.7
bcrypt
                         4.8.2
                                                  py37 0
beautifulsoup4
                         1.2.1
                                          py37he774522 0
bitarray
bkcharts
                         0.2
                                                  py37 0
                         1.0
blas
                                                     mkl
                                                  py37 0
bleach
                         3.1.0
                         1.16.3
blosc
                                              h7bd577a 0
bokeh
                         1.4.0
                                                  py37 0
                         2.49.0
                                                  py37 0
boto
                         1.3.2
                                          py37h2a96729 0
bottleneck
                         1.0.8
                                              he774522 0
bzip2
ca-certificates
                         2020.1.1
                                                  py37 0
certifi
                         2019.11.28
cffi
                         1.14.0
                                          py37h7a1dbc1 0
                                               py37 1003
chardet
                         3.0.4
click
                         7.0
                                                  py37 0
                         1.3.0
cloudpickle
                                                    py 0
                         1.2.2
                                                  py37 1
clyent
colorama
                         0.4.3
                                                    py_0
                         1.1.7
                                                  py37 0
conda-package-handling 1.6.0
                                          py37h62dcd97 0
conda-verify
                         3.4.2
                                                    py 1
console shortcut
                        0.1.1
contextlib2
                         0.6.0.post1
                                                    py 0
                                          py37h7a1dbc1 0
                         2.8
cryptography
                         7.68.0
                                             h2a8f88b 0
curl
                         0.10.0
                                                  py37 0
cycler
                         0.29.15
                                          py37ha925a31 0
cython
                                          py37he774522 0
cytoolz
                         0.10.1
dask
                         2.11.0
                                                    py 0
dask-core
                         2.11.0
                                                    py_0
                         4.4.1
decorator
                                                    py 0
                         0.6.0
defusedxml
                                                    py 0
diff-match-patch
                         20181111
                                                    py 0
                                                  py37 0
distributed
                         2.11.0
docutils
                         0.16
                                                  py37 0
                         0.3
entrypoints
                                                  py37 0
                                                  py37 0
et xmlfile
                         1.0.1
fastcache
                         1.1.0
                                          py37he774522 0
                         3.0.12
                                                    py 0
filelock
                                                  py37 0
flake8
                         3.7.9
flask
                         1.1.1
                                                    py 0
                         2.9.1
                                              ha9979f8 1
freetype
                         0.6.2
fsspec
                                                    py 0
```

future	0.18.2	py37 0
get terminal size	1.0.0	h38e98db 0
gevent	1.4.0	py37he774522 0
glob2	0.7	_
		py_0
greenlet	0.4.15	py37hfa6e2cd_0
h5py	2.10.0	py37h5e291fa_0
hdf5	1.10.4	h7ebc959_0
heapdict	1.0.1	py_0
html5lib	1.0.1	py37 0
hypothesis	5.5.4	py 0
icc rt	2019.0.0	h0cc432a 1
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icu	58.2	ha66f8fd_1
idna	2.8	py37_0
imageio	2.6.1	py37_0
imagesize	1.2.0	py_0
importlib metadata	1.5.0	py37 0
intel-openmp	2020.0	166
intervaltree	3.0.2	py 0
		
ipykernel	5.1.4	py37h39e3cac_0
ipython	7.12.0	py37h5ca1d4c_0
ipython_genutils	0.2.0	py37_0
ipywidgets	7.5.1	py_0
isort	4.3.21	py37 0
itsdangerous	1.1.0	py37 0
jdcal	1.4.1	py_0
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jedi		py37_0
jinja2	2.11.1	py_0
joblib	0.14.1	py_0
jpeg	9b	hb83a4c4_2
json5	0.9.1	py_0
jsonschema	3.2.0	py37 0
jupyter	1.0.0	py37 7
jupyter client	5.3.4	py37_0
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jupyter_console	6.1.0	py_0
jupyter_core	4.6.1	py37_0
jupyterlab	1.2.6	pyhf63ae98_0
jupyterlab_server	1.0.6	py_0
keyring	21.1.0	py37 0
kiwisolver	1.1.0	py37ha925a31 0
krb5	1.17.1	hc04afaa 0
lazy-object-proxy	1.4.3	py37he774522 0
libarchive	3.3.3	h0643e63 5
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libcurl	7.68.0	h2a8f88b_0
libiconv	1.15	h1df5818_7
liblief	0.9.0	ha925a31_2
libpng	1.6.37	h2a8f88b 0
libsodium	1.0.16	h9d3ae62 0
libspatialindex	1.9.3	h33f27b4 0
libssh2	1.8.2	h7a1dbc1 0
libtiff	4.1.0	-
		h56a325e_0
libxml2	2.9.9	h464c3ec_0
libxslt	1.1.33	h579f668_0
llvmlite	0.31.0	py37ha925a31_0
locket	0.2.0	py37_1
lxml	4.5.0	py37h1350720 0
1z4-c	1.8.1.2	h2fa13f4 0
lzo	2.10	h6df0209 2
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m2w64-gcc-libgfortran	5.3.0	6	
m2w64-gcc-libs	5.3.0	7	
m2w64-gcc-libs-core	5.3.0	7	
m2w64-gmp	6.1.0	2	
m2w64-libwinpthread-git	5.0.0.4634.		2
markupsafe	1.1.1	py37he774522_0	
matplotlib	3.1.3	py37_0	
matplotlib-base	3.1.3	py37h64f37c6_0	
mccabe	0.6.1	py37_1	
menuinst	1.4.16	py37he774522_0	
mistune	0.8.4	py37he774522_0	
mkl	2020.0	166	
mkl-service	2.3.0	py37hb782905_0	
mkl_fft	1.0.15	py37h14836fe_0	
mkl_random	1.1.0	py37h675688f_0	
mock	4.0.1	ру_0	
more-itertools	8.2.0	ру_0	
mpmath	1.1.0	py37_0	
msgpack-python	0.6.1	py37h74a9793_1	
msys2-conda-epoch	20160418	1	
multipledispatch	0.6.0	py37_0	
navigator-updater	0.2.1	py37_0	
nbconvert	5.6.1	py37 0	
nbformat	5.0.4	py_0	
networkx	2.4	py_0	
nltk	3.4.5	py37 0	
nodejs	0.1.1	pypi 0	pypi
nose	1.3.7	py37 2	
notebook	6.0.3	py37 0	
npm	0.1.1	pypi 0	pypi
numba	0.48.0	py37h47e9c7a 0	1 11
numexpr	2.7.1	py37h25d0782 0	
numpy	1.18.1	py37h93ca92e 0	
numpy-base	1.18.1	py37hc3f5095 1	
numpydoc	0.9.2	py_0	
olefile	0.46	py37 0	
openpyxl	3.0.3	py_0	
openssl	1.1.1d	he774522 4	
optional-django	0.1.0	pypi 0	pypi
packaging	20.1	py_0	F 2 F -
pandas	1.0.1	py37h47e9c7a 0	
pandoc	2.2.3.2	0	
pandocfilters	1.4.2	py37 1	
paramiko	2.7.1	py_0	
parso	0.5.2	py_0	
partd	1.1.0	py_0	
path	13.1.0	py37 0	
path.py	12.4.0	0	
pathlib2	2.3.5	py37 0	
pathtools	0.1.2		
patsy	0.5.1	py_1 py37 0	
pep8	1.7.1	py37_0 py37_0	
	4.8.0	py37_0 py37_0	
pexpect	0.7.5		
pickleshare	7.0.0	py37_0 py37hcc1f983 0	
pillow		-	
pip	20.0.2	py37_1	
pkginfo	1.5.0.1	py37_0	

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pytest-doctestplus
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pytest-openfiles
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python
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python-dateutil
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python-language-server
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python-libarchive-c
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qt
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qtconsole
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qtpy
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requests
                          0.16.0
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rtree
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                                            py37he774522 0
ruamel_yaml
                          0.16.2
                                            py37h47e9c7a 0
scikit-image
                          0.22.1
                                            py37h6288b17 0
scikit-learn
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scipy	1.4.1	py37h9439919_0
seaborn	0.10.0	py_0
send2trash	1.5.0	py37_0
setuptools	45.2.0	py37_0
simplegeneric	0.8.1	py37_2
singledispatch	3.4.0.3	py37_0
sip	4.19.8	py37h6538335 0
six	1.14.0	py37 0
snappy	1.1.7	h777316e 3
snowballstemmer	2.0.0	py_0
sortedcollections	1.1.2	py37 0
sortedcontainers	2.1.0	py37_0
soupsieve	1.9.5	py37 0
sphinx	2.4.0	py_0
sphinxcontrib	1.0	py37 1
sphinxcontrib-applehelp	1.0.1	_
	1.0.1	py_0
sphinxcontrib-devhelp		py_0
sphinxcontrib-htmlhelp	1.0.2	py_0
sphinxcontrib-jsmath	1.0.1	py_0
sphinxcontrib-qthelp	1.0.2	ру_0
sphinxcontrib-serializing		b\\^0
sphinxcontrib-websupport	1.2.0	bA ⁰
spyder	4.0.1	py37_0
spyder-kernels	1.8.1	py37_0
sqlalchemy	1.3.13	py37he774522_0
sqlite	3.31.1	he774522_0
statsmodels	0.11.0	py37he774522_0
sympy	1.5.1	py37_0
tbb	2020.0	h74a9793_0
tblib	1.6.0	py_0
terminado	0.8.3	py37_0
testpath	0.4.4	py_0
tk	8.6.8	hfa6e2cd 0
toolz	0.10.0	py_0
tornado	6.0.3	py37he774522_3
tqdm	4.42.1	py_0
traitlets	4.3.3	py37 0
ujson	1.35	py37hfa6e2cd 0
unicodecsv	0.14.1	py37 0
urllib3	1.25.8	py37 0
VC	14.1	h0510ff6 4
vs2015 runtime	14.16.27012	hf0eaf9b 1
watchdog	0.10.2	py37 ⁻ 0
wcwidth	0.1.8	py_0
webencodings	0.5.1	py37 1
werkzeug	1.0.0	py_0
wheel	0.34.2	py37_0
widgetsnbextension	3.5.1	py37 0
win inet pton	1.1.0	py37_0
win unicode console	0.5	py37_0
wincertstore	0.2	py37_0
winpty	0.4.3	Py57_0 4
wrapt	1.11.2	py37he774522 0
xlrd	1.2.0	py3711e774322_0 py37 0
xlsxwriter	1.2.7	py_0
xlwings	0.17.1	ру_0 ру37 0
xlwt	1.3.0	py37_0 py37_0
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xmltodict	0.12.0	ру 0
XZ	5.2.4	h2fa13f4 4
yaml	0.1.7	hc54c509 2
yapf	0.28.0	py 0
zeromq	4.3.1	h33f27b4 3
zict	1.0.0	py_0
zipp	2.2.0	py 0
zlib	1.2.11	h62dcd97 3
zstd	1.3.7	h508b16e 0

Note: you may need to restart the kernel to use updated packages.

Using the command prompt, install the Beautiful Soup module (bs4) into the msba enviornment.

```
In [8]: # List the packages in the msba environment
        # conda install conda-forge::bs4
        %conda list --name msba
       # packages in environment at C:\Users\jbrun\anaconda3\envs\msba:
       # Name
                                Version
                                                         Build Channel
        ipyw jlab nb ext conf
                                0.1.0
                                                        py37 0
                                0.7.12
       alabaster
                                                        py37 0
       anaconda
                                2020.02
                                                        py37 0
       anaconda-client
                               1.7.2
                                                        py37 0
                               1.9.12
                                                        py37 0
       anaconda-navigator
       anaconda-project
                               0.8.4
                                                         ру 0
                                                        py37 0
                               0.26.2
       argh
       asn1crypto
                                1.3.0
                                                        py37 0
                                                        py37 0
                               2.3.3
       astroid
       astropy
                               4.0
                                                 py37he774522 0
                               1.3.0
                                                        py37 1
       atomicwrites
                               19.3.0
                                                          py_ 0
       attrs
                                1.4.4
       autopep8
                                                          py 0
                                2.8.0
       babel
                                                          py 0
       backcall
                                0.1.0
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       backports
       backports.functools lru cache 1.6.1
                                                              py 0
       backports.shutil get terminal size 1.0.0
                                                                 py37 2
       backports.tempfile 1.0
                                                          py 1
       backports.weakref
                               1.0.post1
                                                          py 1
                               3.1.7
                                                 py37he774522 0
       bcrypt
                               4.8.2
                                                        py37 0
       beautifulsoup4
                               1.2.1
                                                 py37he774522 0
       bitarray
                                0.2
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       bkcharts
       blas
                                1.0
                                                           mkl
       bleach
                               3.1.0
                                                        py37 0
                               1.16.3
       blosc
                                                    h7bd577a 0
                               1.4.0
       bokeh
                                                        py37 0
                                                        py37 0
                                2.49.0
       boto
                               1.3.2
                                                 py37h2a96729 0
       bottleneck
                               1.0.8
                                                    he774522 0
       bzip2
                               2020.1.1
       ca-certificates
       certifi
                               2019.11.28
                                                        py37 0
       cffi
                                1.14.0
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chardet	3.0.4	py37_1003
click	7.0	py37_0
cloudpickle	1.3.0	py_0
clyent	1.2.2	py37_1
colorama	0.4.3	py_0
comtypes	1.1.7	py37_0
conda-package-handling	1.6.0	py37h62dcd97_0
conda-verify	3.4.2	py_1
console_shortcut	0.1.1	4
contextlib2	0.6.0.post1	py_0
cryptography	2.8	py37h7a1dbc1_0
curl	7.68.0	h2a8f88b_0
cycler	0.10.0	py37_0
cython	0.29.15	py37ha925a31_0
cytoolz	0.10.1	py37he774522_0
dask	2.11.0	py_0
dask-core	2.11.0	py_0
decorator	4.4.1	py_0
defusedxml	0.6.0	py_0
diff-match-patch	20181111	0_vq
distributed	2.11.0	py37_0
docutils	0.16	py37_0
entrypoints	0.3	py37_0
et xmlfile	1.0.1	py37_0
fastcache	1.1.0	py37he774522 0
filelock	3.0.12	0
flake8	3.7.9	py37 0
flask	1.1.1	0
freetype	2.9.1	ha9979f8 1
fsspec	0.6.2	py_0
future	0.18.2	py37 0
get terminal size	1.0.0	h38e98db 0
gevent	1.4.0	py37he774522 0
glob2	0.7	py_0
greenlet	0.4.15	py37hfa6e2cd 0
h5py	2.10.0	py37h5e291fa 0
hdf5	1.10.4	h7ebc959 0
heapdict	1.0.1	py_0
html5lib	1.0.1	py37 0
hypothesis	5.5.4	py_0
icc rt	2019.0.0	h0cc432a 1
icu	58.2	ha66f8fd 1
idna	2.8	py37 0
imageio	2.6.1	py37 0
imagesize	1.2.0	py_0
importlib metadata	1.5.0	py37 0
intel-openmp	2020.0	166
intervaltree	3.0.2	py 0
ipykernel	5.1.4	py37h39e3cac 0
ipython	7.12.0	py37h5ca1d4c 0
ipython genutils	0.2.0	py37 0
ipywidgets	7.5.1	py_0
isort	4.3.21	py37 0
itsdangerous	1.1.0	py37_0
jdcal	1.4.1	py_0
jedi	0.14.1	py37 0
jinja2	2.11.1	py_0
, —) ~ —		F.7 _ 0

joblib	0.14.1	211	
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jpeg	9b	hb83a4c4_2	
json5	0.9.1	py_0	
jsonschema	3.2.0	py37_0	
jupyter	1.0.0	py37_7	
jupyter_client	5.3.4	py37_0	
jupyter_console	6.1.0	py_0	
jupyter_core	4.6.1	py37_0	
jupyterlab	1.2.6	pyhf63ae98 0	
jupyterlab server	1.0.6	py_0	
keyring	21.1.0	py37 0	
kiwisolver	1.1.0	py37ha925a31 0	
krb5	1.17.1	hc04afaa 0	
lazy-object-proxy	1.4.3	py37he774522 0	
libarchive	3.3.3	h0643e63 5	
libcurl	7.68.0	h2a8f88b 0	
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libiconv	1.15	h1df5818_7	
liblief	0.9.0	ha925a31_2	
libpng	1.6.37	h2a8f88b_0	
libsodium	1.0.16	h9d3ae62_0	
libspatialindex	1.9.3	h33f27b4_0	
libssh2	1.8.2	h7a1dbc1_0	
libtiff	4.1.0	h56a325e_0	
libxml2	2.9.9	h464c3ec_0	
libxslt	1.1.33	h579f668 0	
llvmlite	0.31.0	py37ha925a31 0	
locket	0.2.0	py37 1	
lxml	4.5.0	py37h1350720 0	
1z4-c	1.8.1.2	h2fa13f4 0	
lzo	2.10	h6df0209 2	
m2w64-gcc-libgfortran	5.3.0	6	
		7	
m2w64-gcc-libs	5.3.0		
m2w64-gcc-libs-core	5.3.0	7	
m2w64-gmp	6.1.0	2	_
m2w64-libwinpthread-git	5.0.0.4634.697f		2
markupsafe	1.1.1	py37he774522_0	
matplotlib	3.1.3	py37_0	
matplotlib-base	3.1.3	py37h64f37c6_0	
mccabe	0.6.1	py37_1	
menuinst	1.4.16	py37he774522_0	
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mkl	2020.0	1 <u>6</u> 6	
mkl-service	2.3.0	py37hb782905 0	
mkl fft	1.0.15	py37h14836fe 0	
mkl random	1.1.0	py37h675688f 0	
mock	4.0.1	py 0	
more-itertools	8.2.0	py_0	
	1.1.0	—	
mpmath		py37_0	
msgpack-python	0.6.1	py37h74a9793_1	
msys2-conda-epoch	20160418	1	
multipledispatch	0.6.0	py37_0	
navigator-updater	0.2.1	py37_0	
nbconvert	5.6.1	py37_0	
nbformat	5.0.4	py_0	
networkx	2.4	py_0	
nltk	3.4.5	py37_0	
nodejs	0.1.1	pypi_0	pypi
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snowballstemmer
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tblib	1.6.0	py_0
terminado	0.8.3	py37_0
testpath	0.4.4	py_0
tk	8.6.8	hfa6e2cd_0
toolz	0.10.0	py_0
tornado	6.0.3	py37he774522_3
tqdm	4.42.1	py_0
traitlets	4.3.3	py37_0
ujson	1.35	py37hfa6e2cd_0
unicodecsv	0.14.1	py37_0
urllib3	1.25.8	py37_0
VC	14.1	h0510ff6_4
vs2015_runtime	14.16.27012	hf0eaf9b_1
watchdog	0.10.2	py37 0
wcwidth	0.1.8	0
webencodings	0.5.1	py37 1
werkzeug	1.0.0	py 0
wheel	0.34.2	py37_0
widgetsnbextension	3.5.1	py37_0
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xlrd	1.2.0	py37 0
xlsxwriter	1.2.7	py 0
xlwings	0.17.1	py37 0
xlwt	1.3.0	py37_0
xmltodict	0.12.0	py_0
XZ	5.2.4	h2fa13f4 4
yaml	0.1.7	hc54c509 2
yapf	0.28.0	py 0
zeromq	4.3.1	h33f27b4 3
zict	1.0.0	py 0
zipp	2.2.0	py 0
zlib	1.2.11	h62dcd97 3
zstd	1.3.7	h508b16e 0
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Note: you may need to restart the kernel to use updated packages.