BSCH-HGP Common Issues

Windows

- Do not do step 5 in the install instructions. Make sure you do step 6. Ref: BSCH-HGP Software Requirement - Alex Cronin v3
- If you install Keras you may get the following out. Solution is to uninstall Keras or do not do step 5 when building your virtual environment

```
C:\Users\tom>python C:\anaconda\envs\hgp\etc\keras\load_config.py  1>temp.txt
C:\Users\tom>set /p KERAS_BACKEND= 0<temp.txt
C:\Users\tom>del temp.txt
C:\Users\tom>python -c "import keras"  1>nul 2>&1
C:\Users\tom>if errorlevel 1 (
ver  1>nul
 set "KERAS_BACKEND=theano"
 python -c "import keras"  1>nul 2>&1
 )
```

Linux

- KDE
    - If you load jupyter notebootbk with the KDE desktop you will in Sometime jupyter notebook take a different token with KDE Plasma desktop environment.
    - Wil

Both

- Issue: Already running on port.
    - Error Message:
        ```
        I 14:37:14.147 NotebookApp] The port 8888 is already in use, trying another port.
        [I 14:37:14.147 NotebookApp] The port 8889 is already in use, trying another port.
        [I 14:37:14.148 NotebookApp] The port 8890 is already in use, trying another port.
        [I 14:37:14.148 NotebookApp] The port 8891 is already in use, trying another port.
        [I 14:37:14.149 NotebookApp] The port 8892 is already in use, trying another port.
        [I 14:37:14.
        ```
    - Solution: shut down all python processes and restart.
        ```
        339 NotebookApp] Serving notebooks from local directory: C:\Users\lil_m
        ```

PyCharm Configuration

- If your virtual environment is coming up as invalid add it as a local virtual env and and find it manually
  https://intellij-support.jetbrains.com/hc/en-us/community/posts/115000660264-Pycharm-doesn-t-activate-Anaconda-virtual-environment-on-Windows-7

PyCharm Uses

- Remember to close the jupyternotebook file in PyCharm if you want to open the changes which were saved in the browser.

Exiting Error:

- Quiting a program causes an error like */Users/alexcronin/anaconda3/envs/hgp/lib/python3.6/site-packages/IPython/core/interactiveshell.py:2969: UserWarning: To exit: use 'exit', 'quit', or Ctrl-D.warn("To exit: use 'exit', 'quit', or Ctrl-D.", stacklevel=1)*
- *Articles addressing it without a solution:*
  - https://teamtreehouse.com/community/sysexit-not-working-as-expected
- Tries to privide a solution but does not appear to work
  - https://stackoverflow.com/questions/44893461/problems-exiting-from-python-using-ipython-spyder
  -

Rebuilding Virtual Environments
https://conda.io/docs/user-guide/tasks/manage-environments.html#creating-an-environment-from-an-environment-yml-file

Opening local files using urlib
https://stackoverflow.com/questions/20558587/opening-local-file-works-with-urllib-but-not-with-urllib2

Jupyter crashing when a pyqt application exists

Possible relivant articles - https://github.com/spyder-ide/spyder/issues/4349

SSL Issues

SSL Issue with Assignment 1 preperation tutorial

If someone gets this error "<urlopen error [SSL: CERTIFICATE_VERIFY_FAILED] certificate verify failed (_ssl.c:833)>" (when printing the exception),
Just fix it with this code :
"

```
try:
        context = ssl._create_unverified_context()
        csvFile =
urlopen("http://www.bankofcanada.ca/valet/observations/group/FX_RATES_DAILY/csv",
context=context)
        self.fileContent = []
        for row in csvFile:
        self.fileContent.append(row.decode())
```

```
        return True
"
```

SSL Issue Assignment1

Here the code which fix the SSL error :
"
```
        def downloadAndUnzip(self):
        self.data = {}
        url = 'https://www.ecb.europa.eu/stats/eurofxref/eurofxref-hist.zip'
        try:
        context = ssl._create_unverified_context()
        self.file = urlopen(url, context=context)
        zip_file_object = zipfile.ZipFile(BytesIO(self.file.read()), 'r')
        first_file = zip_file_object.namelist()[0]
        self.file = zip_file_object.open(first_file)
        content = self.file.read()
        print(content)
        except Exception as e:
        print(e)
"
```
and the relate imports :
"
```
from urllib.request import urlopen
import zipfile
import ssl
from io import BytesIO
"
```

Process finished with exit code -1073741819 (0xC0000005)

Make sure that you have the project pointing to the correct virtual environment