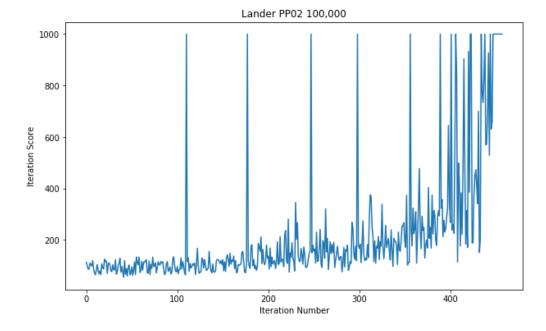
```
In [30]: import pandas as pd
import matplotlib.pyplot as plt
import numpy as np

In [31]: # LANDER PP02 100,000
# Read in File as pandas dataframe
```

```
# LANDER PP02 100,000
# Read in File as pandas dataframe
file_data = pd.read_csv("lander/lander_pp02_100000.csv")
lander_pp02_100000_df = pd.DataFrame(columns= file_data.iloc[0,:], data=file_data.iloc[1:,].as_matrix())

#PLOTTING
fig, ax = plt.subplots(1,1, figsize=(10,6))
x_h = pd.to_numeric(lander_pp02_100000_df.index.values)
pp02_hy = pd.to_numeric(lander_pp02_100000_df.l.values)
ax.set_title("Lander PP02_100,000")
ax.set_xlabel("Iteration Number")
ax.set_ylabel("Iteration Score")
ax.plot(x_h , pp02_hy);
```

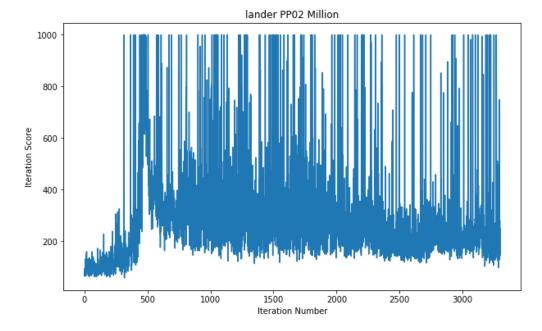
after removing the cwd from sys.path.



```
In [32]: # lander PP02 MILLION
    # Read in File as pandas dataframe
    file_data = pd.read_csv("lander/lander_ppo2_million.csv")
    lander_pp02_million_df = pd.DataFrame(columns= file_data.iloc[0,:], data=file_d
    ata.iloc[1:,].as_matrix())

#PLOTTING
    fig, ax = plt.subplots(1,1, figsize=(10,6))
    x_m = pd.to_numeric(lander_pp02_million_df.index.values)
    pp02_my = pd.to_numeric(lander_pp02_million_df.l.values)
    ax.set_title("lander PP02 Million")
    ax.set_xlabel("Iteration Number")
    ax.set_ylabel("Iteration Score")
    ax.plot(x_m , pp02_my);
```

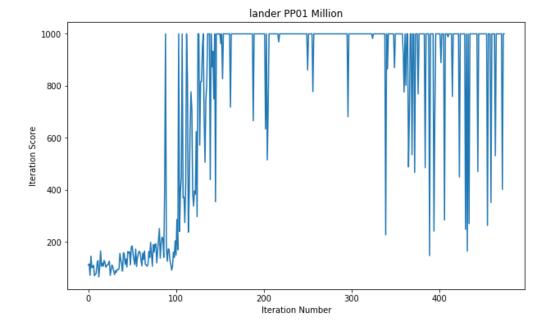
after removing the cwd from sys.path.



```
In [33]: # lander PP01 MILLION
    # Read in File as pandas dataframe
    file_data = pd.read_csv("lander/lander_ppo1_million.csv")
    lander_pp01_million_df = pd.DataFrame(columns= file_data.iloc[0,:], data=file_d
    ata.iloc[1:,].as_matrix())

#PLOTTING
    fig, ax = plt.subplots(1,1, figsize=(10,6))
    x = pd.to_numeric(lander_pp01_million_df.index.values)
    pp01_my = pd.to_numeric(lander_pp01_million_df.l.values)
    ax.set_title("lander PP01 Million")
    ax.set_xlabel("Iteration Number")
    ax.set_ylabel("Iteration Score")
    ax.plot(x , pp01_my);
```

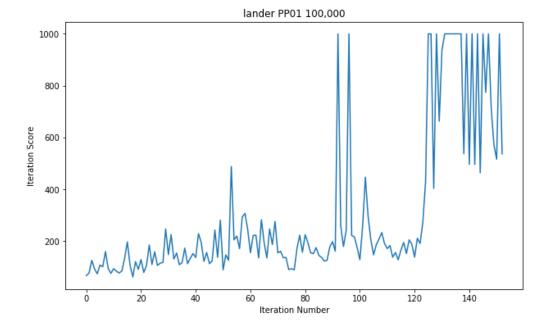
after removing the cwd from sys.path.



```
In [34]: # lander PP01 100,000
# Read in File as pandas dataframe
file_data = pd.read_csv("lander/lander_pp01_100000.csv")
lander_pp01_100000_df = pd.DataFrame(columns= file_data.iloc[0,:], data=file_da
ta.iloc[1:,].as_matrix())

#PLOTTING
fig, ax = plt.subplots(1,1, figsize=(10,6))
x = pd.to_numeric(lander_pp01_100000_df.index.values)
pp01_hy = pd.to_numeric(lander_pp01_100000_df.l.values)
ax.set_title("lander PP01_100,000")
ax.set_xlabel("Iteration Number")
ax.set_ylabel("Iteration Score")
ax.plot(x , pp01_hy);
```

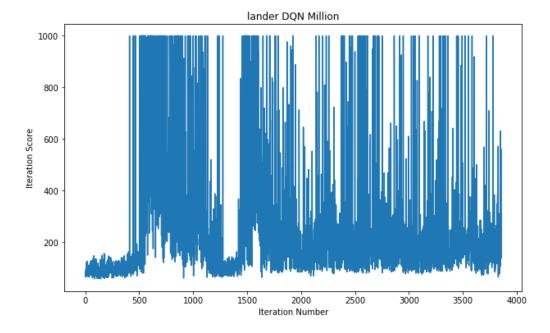
after removing the cwd from sys.path.



```
In [35]: # lander DQN Million
    # Read in File as pandas dataframe
    file_data = pd.read_csv("lander/lander_dqn_million.csv")
    lander_dqn_million_df = pd.DataFrame(columns= file_data.iloc[0,:], data=file_data.iloc[1:,].as_matrix())

#PLOTTING
fig, ax = plt.subplots(1,1, figsize=(10,6))
x = pd.to_numeric(lander_dqn_million_df.index.values)
dqn_my = pd.to_numeric(lander_dqn_million_df.l.values)
ax.set_title("lander DQN Million")
ax.set_xlabel("Iteration Number")
ax.set_ylabel("Iteration Score")
ax.plot(x , dqn_my);
```

after removing the cwd from sys.path.



```
In [36]: # lander DDPG Million
    # Read in File as pandas dataframe
    file_data = pd.read_csv("lander/lander_ddpg_million.csv")
    lander_ddpg_million_df = pd.DataFrame(columns= file_data.iloc[0,:], data=file_d
    ata.iloc[1:,].as_matrix())

#PLOTTING
fig, ax = plt.subplots(1,1, figsize=(10,6))
    x = pd.to_numeric(lander_ddpg_million_df.index.values)
    y = pd.to_numeric(lander_ddpg_million_df.l.values)
    ax.set_title("lander_DDPG Million")
    ax.set_xlabel("Iteration Number")
    ax.set_ylabel("Iteration Score")
    ax.plot(x, y);

# Moving average dangerous, maybe like k-nearest neighors type of thing
```

```
FileNotFoundError
                                          Traceback (most recent call last)
<ipython-input-36-38b38ce083dc> in <module>
      1 # lander DDPG Million
      2 # Read in File as pandas dataframe
----> 3 file_data = pd.read_csv("lander/lander_ddpg_million.csv")
      4 lander_ddpg_million_df = pd.DataFrame(columns= file_data.iloc[0,:], dat
a=file_data.iloc[1:,].as_matrix())
~/jupyter nb directory/jupyter nb env/lib/python3.6/site-packages/pandas/io/par
sers.py in parser_f(filepath_or_buffer, sep, delimiter, header, names, index_co
l, usecols, squeeze, prefix, mangle_dupe_cols, dtype, engine, converters, true_
values, false_values, skipinitialspace, skiprows, nrows, na_values, keep_defaul
t_na, na_filter, verbose, skip_blank_lines, parse_dates, infer_datetime_format,
keep_date_col, date_parser, dayfirst, iterator, chunksize, compression, thousan
ds, decimal, lineterminator, quotechar, quoting, escapechar, comment, encoding,
dialect, tupleize cols, error bad lines, warn bad lines, skipfooter, doublequot
e, delim whitespace, low memory, memory map, float precision)
                            skip blank lines=skip blank lines)
    677
--> 678
                return read(filepath or buffer, kwds)
    679
    680
            parser_f.__name__ = name
~/jupyter_nb_directory/jupyter_nb_env/lib/python3.6/site-packages/pandas/io/par
sers.py in _read(filepath_or_buffer, kwds)
    438
    439
            # Create the parser.
--> 440
            parser = TextFileReader(filepath or buffer, **kwds)
    441
    442
            if chunksize or iterator:
~/jupyter nb directory/jupyter nb env/lib/python3.6/site-packages/pandas/io/par
sers.py in __init__(self, f, engine, **kwds)
    785
                    self.options['has_index_names'] = kwds['has_index_names']
    786
--> 787
                self. make engine(self.engine)
    788
    789
            def close(self):
~/jupyter nb directory/jupyter nb env/lib/python3.6/site-packages/pandas/io/par
sers.py in _make_engine(self, engine)
   1012
            def _make_engine(self, engine='c'):
   1013
                if engine == 'c':
-> 1014
                    self. engine = CParserWrapper(self.f, **self.options)
   1015
                    if engine == 'python':
   1016
~/jupyter_nb_directory/jupyter_nb_env/lib/python3.6/site-packages/pandas/io/par
sers.py in __init__(self, src, **kwds)
                kwds['usecols'] = self.usecols
   1706
   1707
-> 1708
                self._reader = parsers.TextReader(src, **kwds)
   1709
   1710
                passed_names = self.names is None
pandas/_libs/parsers.pyx in pandas._libs.parsers.TextReader.__cinit__()
pandas/ libs/parsers.pyx in pandas. libs.parsers.TextReader. setup parser sourc
e()
FileNotFoundError: File b'lander/lander_ddpg_million.csv' does not exist
```

```
In [37]: # lander DDPG 100000
# Read in File as pandas dataframe
file_data = pd.read_csv("lander/lander_ddpg_100000.csv")
lander_ddpg_100000_df = pd.DataFrame(columns= file_data.iloc[0,:], data=file_da
ta.iloc[1:,].as_matrix())

#PLOTTING
fig, ax = plt.subplots(1,1, figsize=(10,6))
x = pd.to_numeric(lander_ddpg_100000_df.index.values)
y = pd.to_numeric(lander_ddpg_100000_df.l.values)
ax.set_title("lander DDPG 1000000")
ax.set_vlabel("Iteration Number")
ax.set_ylabel("Iteration Score")
ax.plot(x, y);
```

```
FileNotFoundError
                                          Traceback (most recent call last)
<ipython-input-37-9a17b11f981a> in <module>
      1 # lander DDPG 100000
      2 # Read in File as pandas dataframe
----> 3 file_data = pd.read_csv("lander/lander_ddpg_100000.csv")
      4 lander_ddpg_100000_df = pd.DataFrame(columns= file_data.iloc[0,:], data
=file_data.iloc[1:,].as_matrix())
~/jupyter nb directory/jupyter nb env/lib/python3.6/site-packages/pandas/io/par
sers.py in parser_f(filepath_or_buffer, sep, delimiter, header, names, index_co
l, usecols, squeeze, prefix, mangle_dupe_cols, dtype, engine, converters, true_
values, false_values, skipinitialspace, skiprows, nrows, na_values, keep_defaul
t_na, na_filter, verbose, skip_blank_lines, parse_dates, infer_datetime_format,
keep_date_col, date_parser, dayfirst, iterator, chunksize, compression, thousan
ds, decimal, lineterminator, quotechar, quoting, escapechar, comment, encoding,
dialect, tupleize cols, error bad lines, warn bad lines, skipfooter, doublequot
e, delim whitespace, low memory, memory map, float precision)
                            skip blank lines=skip blank lines)
    677
--> 678
                return read(filepath or buffer, kwds)
    679
    680
            parser_f.__name__ = name
~/jupyter_nb_directory/jupyter_nb_env/lib/python3.6/site-packages/pandas/io/par
sers.py in _read(filepath_or_buffer, kwds)
    438
    439
            # Create the parser.
--> 440
            parser = TextFileReader(filepath or buffer, **kwds)
    441
    442
            if chunksize or iterator:
~/jupyter nb directory/jupyter nb env/lib/python3.6/site-packages/pandas/io/par
sers.py in __init__(self, f, engine, **kwds)
    785
                    self.options['has_index_names'] = kwds['has_index_names']
    786
--> 787
                self. make engine(self.engine)
    788
    789
            def close(self):
~/jupyter nb directory/jupyter nb env/lib/python3.6/site-packages/pandas/io/par
sers.py in _make_engine(self, engine)
   1012
            def _make_engine(self, engine='c'):
   1013
                if engine == 'c':
-> 1014
                    self. engine = CParserWrapper(self.f, **self.options)
   1015
                    if engine == 'python':
   1016
~/jupyter_nb_directory/jupyter_nb_env/lib/python3.6/site-packages/pandas/io/par
sers.py in __init__(self, src, **kwds)
                kwds['usecols'] = self.usecols
   1706
   1707
-> 1708
                self._reader = parsers.TextReader(src, **kwds)
   1709
   1710
                passed_names = self.names is None
pandas/_libs/parsers.pyx in pandas._libs.parsers.TextReader.__cinit__()
pandas/ libs/parsers.pyx in pandas. libs.parsers.TextReader. setup parser sourc
e()
FileNotFoundError: File b'lander/lander_ddpg_100000.csv' does not exist
```

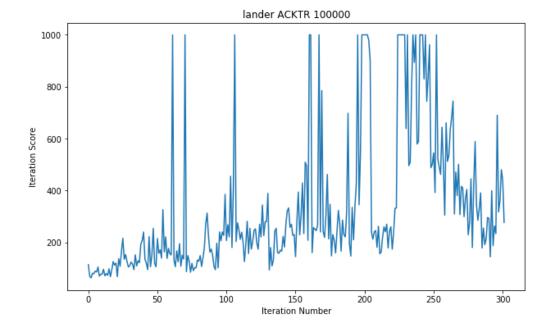
```
In [38]: | k = 100
         y2 = []
         for i in range(len(y) - k):
             num = 0
             for j in range(k):
                 num += y[i+j]
             y2.append(num/k)
         # lander DDPG 100000
         # Read in File as pandas dataframe
         file data = pd.read csv("lander/lander ddpg 100000.csv")
         lander_ddpg_100000_df = pd.DataFrame(columns= file_data.iloc[0,:], data=file_da
         ta.iloc[1:,].as matrix())
         #PLOTTING
         fig, ax = plt.subplots(1,1, figsize=(10,6))
         x2 = pd.to_numeric(lander_ddpg_100000_df.iloc[:-k].index.values)
         #y = pd.to_numeric(lander_ddpg_100000_df.l.values)
         ax.set_title("lander DDPG 100000")
         ax.set_xlabel("Iteration Number")
         ax.set_ylabel("Iteration Score")
         ax.plot(x2, y2);
```

NameError: name 'y' is not defined

```
In [39]: # lander ACKTR 100,000
# Read in File as pandas dataframe
file_data = pd.read_csv("lander/lander_acktr_100000.csv")
lander_acktr_100000_df = pd.DataFrame(columns= file_data.iloc[0,:], data=file_d
    ata.iloc[1:,].as_matrix())

#PLOTTING
fig, ax = plt.subplots(1,1, figsize=(10,6))
x = pd.to_numeric(lander_acktr_100000_df.index.values)
y = pd.to_numeric(lander_acktr_100000_df.l.values)
ax.set_title("lander ACKTR 100000")
ax.set_xlabel("Iteration Number")
ax.set_ylabel("Iteration Score")
ax.plot(x, y);
```

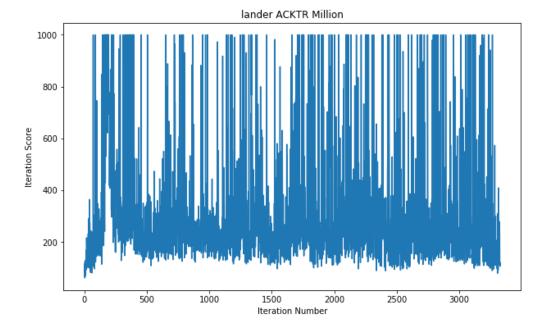
after removing the cwd from sys.path.



```
In [40]: # lander ACKTR MILLION
    # Read in File as pandas dataframe
    file_data = pd.read_csv("lander/lander_acktr_million.csv")
    lander_acktr_million_df = pd.DataFrame(columns= file_data.iloc[0,:], data=file_data.iloc[1:,].as_matrix())

#PLOTTING
    fig, ax = plt.subplots(1,1, figsize=(10,6))
    x = pd.to_numeric(lander_acktr_million_df.index.values)
    y = pd.to_numeric(lander_acktr_million_df.l.values)
    ax.set_title("lander ACKTR Million")
    ax.set_xlabel("Iteration Number")
    ax.set_ylabel("Iteration Score")
    ax.plot(x, y);
```

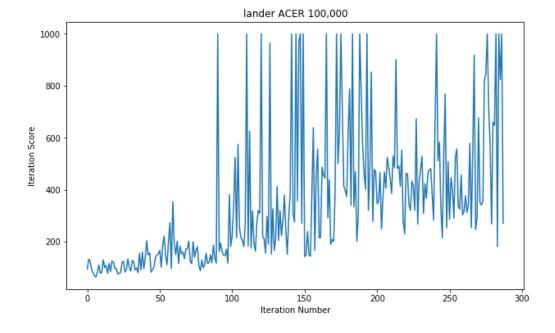
after removing the cwd from sys.path.



```
In [41]: # lander ACER 100000
# Read in File as pandas dataframe
file_data = pd.read_csv("lander/lander_acer_100000.csv")
lander_acer_100000_df = pd.DataFrame(columns= file_data.iloc[0,:], data=file_da
ta.iloc[1:,].as_matrix())

#PLOTTING
fig, ax = plt.subplots(1,1, figsize=(10,6))
x = pd.to_numeric(lander_acer_100000_df.index.values)
y = pd.to_numeric(lander_acer_100000_df.l.values)
ax.set_title("lander ACER 100,000")
ax.set_xlabel("Iteration Number")
ax.set_ylabel("Iteration Score")
ax.plot(x, y);
```

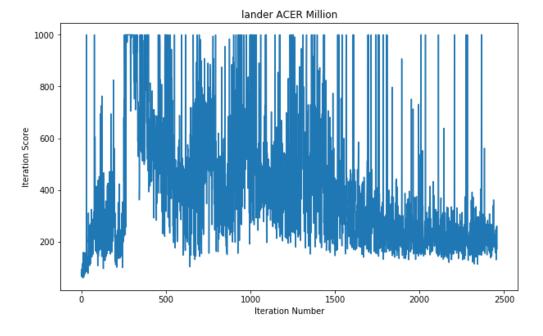
after removing the cwd from sys.path.



```
In [42]: # lander ACER MILLION
    # Read in File as pandas dataframe
    file_data = pd.read_csv("lander/lander_acer_million.csv")
    lander_acer_million_df = pd.DataFrame(columns= file_data.iloc[0,:], data=file_d
    ata.iloc[1:,].as_matrix())

#PLOTTING
fig, ax = plt.subplots(1,1, figsize=(10,6))
    x = pd.to_numeric(lander_acer_million_df.index.values)
    y = pd.to_numeric(lander_acer_million_df.l.values)
    ax.set_title("lander ACER Million")
    ax.set_xlabel("Iteration Number")
    ax.set_ylabel("Iteration Score")
    ax.plot(x, y);
```

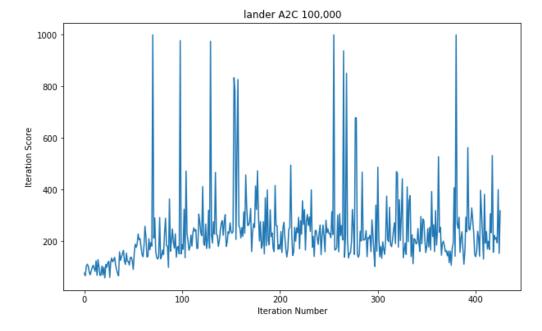
after removing the cwd from sys.path.



```
In [43]: # lander A2C 100,000
# Read in File as pandas dataframe
file_data = pd.read_csv("lander/lander_a2c_100000.csv")
lander_a2c_100000_df = pd.DataFrame(columns= file_data.iloc[0,:], data=file_dat
a.iloc[1:,].as_matrix())

#PLOTTING
fig, ax = plt.subplots(1,1, figsize=(10,6))
x = pd.to_numeric(lander_a2c_100000_df.index.values)
y = pd.to_numeric(lander_a2c_100000_df.l.values)
ax.set_title("lander A2C 100,000")
ax.set_xlabel("Iteration Number")
ax.set_ylabel("Iteration Score")
ax.plot(x, y);
```

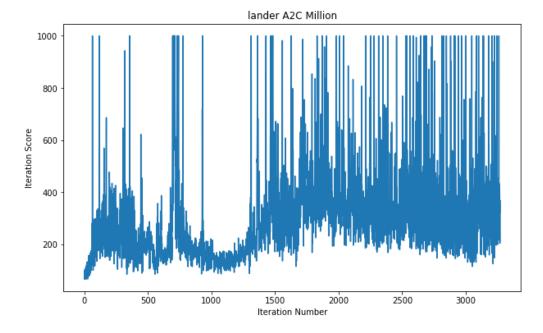
after removing the cwd from sys.path.



```
In [44]: # lander A2C MILLION
    # Read in File as pandas dataframe
    file_data = pd.read_csv("lander/lander_a2c_million.csv")
    lander_a2c_million_df = pd.DataFrame(columns= file_data.iloc[0,:], data=file_da
    ta.iloc[1:,].as_matrix())

#PLOTTING
fig, ax = plt.subplots(1,1, figsize=(10,6))
    x = pd.to_numeric(lander_a2c_million_df.index.values)
    y = pd.to_numeric(lander_a2c_million_df.l.values)
    ax.set_title("lander A2C Million")
    ax.set_xlabel("Iteration Number")
    ax.set_ylabel("Iteration Score")
    ax.plot(x, y);
```

after removing the cwd from sys.path.



```
In [ ]:

In [ ]:
```