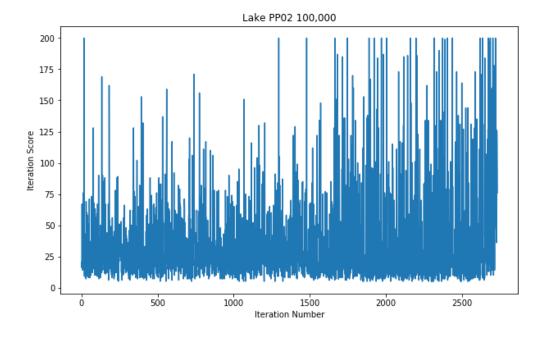
```
In [97]: import pandas as pd
import matplotlib.pyplot as plt
import numpy as np
```

```
In [113]: # LAKE PP02 100,000
# Read in File as pandas dataframe
file_data = pd.read_csv("lake/lake_pp02_100000.csv")
lake_pp02_100000_df = pd.DataFrame(columns= file_data.iloc[0,:], data=file_data
.iloc[1:,].as_matrix())

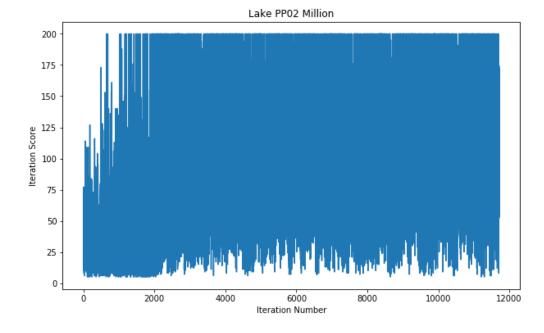
#PLOTTING
fig, ax = plt.subplots(1,1, figsize=(10,6))
x_h = pd.to_numeric(lake_pp02_100000_df.index.values)
pp02_hy = pd.to_numeric(lake_pp02_100000_df.l.values)
ax.set_title("Lake PP02_100,000")
ax.set_xlabel("Iteration Number")
ax.set_ylabel("Iteration Score")
ax.plot(x_h , pp02_hy);
```



```
In [114]: # LAKE PP02 MILLION
# Read in File as pandas dataframe
file_data = pd.read_csv("lake/lake_pp02_million.csv")
lake_pp02_million_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_m = pd.to_numeric(lake_pp02_million_df.index.values)
pp02_my = pd.to_numeric(lake_pp02_million_df.l.values)
ax.set_title("Lake PP02 Million")
ax.set_xlabel("Iteration Number")
ax.set_ylabel("Iteration Score")
ax.plot(x_m , pp02_my);
```

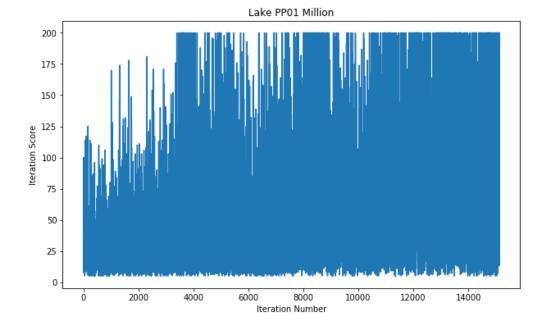
after removing the cwd from sys.path.



```
In [115]: # LAKE PP01 MILLION
# Read in File as pandas dataframe
file_data = pd.read_csv("lake/lake_ppo1_million.csv")
lake_pp01_million_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(lake_pp01_million_df.index.values)
pp01_my = pd.to_numeric(lake_pp01_million_df.l.values)
ax.set_title("Lake_pp01_Million")
ax.set_xlabel("Iteration_Number")
ax.set_ylabel("Iteration_Score")
ax.plot(x , pp01_my);
```

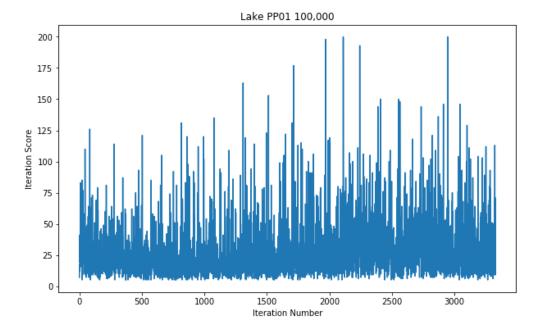
after removing the cwd from sys.path.



```
In [116]: # LAKE PP01 100,000
# Read in File as pandas dataframe
file_data = pd.read_csv("lake/lake_ppo1_100000.csv")
lake_pp01_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 = pd.to_numeric(lake_pp01_100000_df.index.values)
pp01_hy = pd.to_numeric(lake_pp01_100000_df.l.values)
ax.set_title("Lake_pp01_100,000")
ax.set_xlabel("Iteration_Number")
ax.set_ylabel("Iteration_Score")
ax.plot(x , pp01_hy);
```

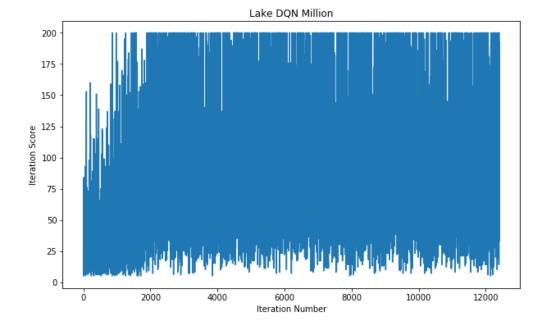
after removing the cwd from sys.path.



```
In [117]: # LAKE DQN Million
# Read in File as pandas dataframe
file_data = pd.read_csv("lake/lake_dqn_million.csv")
lake_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(lake_dqn_million_df.index.values)
dqn_my = pd.to_numeric(lake_dqn_million_df.l.values)
ax.set_title("Lake_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 [118]: # LAKE DDPG Million
    # Read in File as pandas dataframe
    file_data = pd.read_csv("lake/lake_ddpg_million.csv")
    lake_ddpg_million_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(lake_ddpg_million_df.index.values)
    y = pd.to_numeric(lake_ddpg_million_df.l.values)
    ax.set_title("Lake_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-118-e66eee649061> in <module>
      1 # LAKE DDPG Million
      2 # Read in File as pandas dataframe
----> 3 file_data = pd.read_csv("lake/lake_ddpg_million.csv")
      4 lake_ddpg_million_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'lake/lake_ddpg_million.csv' does not exist
```

```
In [119]: # LAKE DDPG 100000
# Read in File as pandas dataframe
file_data = pd.read_csv("lake/lake_ddpg_100000.csv")
lake_ddpg_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 = pd.to_numeric(lake_ddpg_100000_df.index.values)
y = pd.to_numeric(lake_ddpg_100000_df.l.values)
ax.set_title("Lake_DDPG_100000")
ax.set_xlabel("Iteration_Number")
ax.set_ylabel("Iteration_Score")
ax.plot(x, y);
```

```
FileNotFoundError
                                          Traceback (most recent call last)
<ipython-input-119-72b1099225a8> in <module>
      1 # LAKE DDPG 100000
      2 # Read in File as pandas dataframe
----> 3 file_data = pd.read_csv("lake/lake_ddpg_100000.csv")
      4 lake_ddpg_100000_df = pd.DataFrame(columns= file_data.iloc[0,:], data=f
ile 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'lake/lake_ddpg_100000.csv' does not exist
```

```
In [120]: 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)
          # LAKE DDPG 100000
          # Read in File as pandas dataframe
          file_data = pd.read_csv("lake/lake_ddpg_100000.csv")
          lake_ddpg_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))
          x2 = pd.to_numeric(lake_ddpg_100000_df.iloc[:-k].index.values)
          #y = pd.to_numeric(lake_ddpg_100000_df.l.values)
          ax.set_title("Lake DDPG 100000")
          ax.set_xlabel("Iteration Number")
          ax.set_ylabel("Iteration Score")
          ax.plot(x2, y2);
```

```
FileNotFoundError
                                          Traceback (most recent call last)
<ipython-input-120-7e1f5240869e> in <module>
     10 # LAKE DDPG 100000
     11 # Read in File as pandas dataframe
---> 12 file_data = pd.read_csv("lake/lake_ddpg_100000.csv")
     13 lake_ddpg_100000_df = pd.DataFrame(columns= file_data.iloc[0,:], data=f
ile data.iloc[1:,].as matrix())
     14
~/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
            if chunksize or iterator:
    442
~/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
                else:
                    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'lake/lake_ddpg_100000.csv' does not exist
```

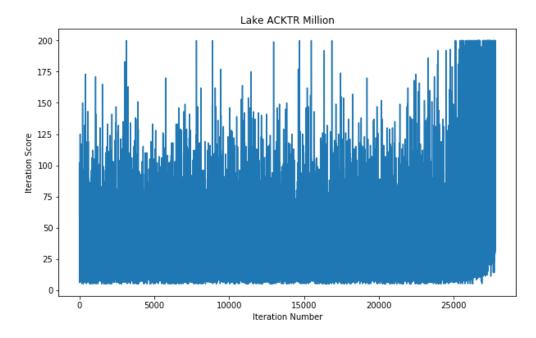
```
In []: # LAKE ACKTR 100,000
# Read in File as pandas dataframe
file_data = pd.read_csv("lake/lake_acktr_100000.csv")
lake_acktr_100000_df = pd.DataFrame(columns= file_data.iloc[0,:], data=file_dat
a.iloc[1:,].as_matrix())

#PLOTTING
fig, ax = plt.subplots(1,1, figsize=(10,6))
x = pd.to_numeric(lake_acktr_100000_df.index.values)
y = pd.to_numeric(lake_acktr_100000_df.l.values)
ax.set_title("Lake ACKTR 100000")
ax.set_title("Lake ACKTR 100000")
ax.set_ylabel("Iteration Number")
ax.set_ylabel("Iteration Score")
ax.plot(x, y);
```

```
In [121]: # LAKE ACKTR MILLION
    # Read in File as pandas dataframe
    file_data = pd.read_csv("lake/lake_acktr_million.csv")
    lake_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(lake_acktr_million_df.index.values)
    y = pd.to_numeric(lake_acktr_million_df.l.values)
    ax.set_title("Lake ACKTR Million")
    ax.set_xlabel("Iteration Number")
    ax.set_ylabel("Iteration Score")
    ax.plot(x, y);
```

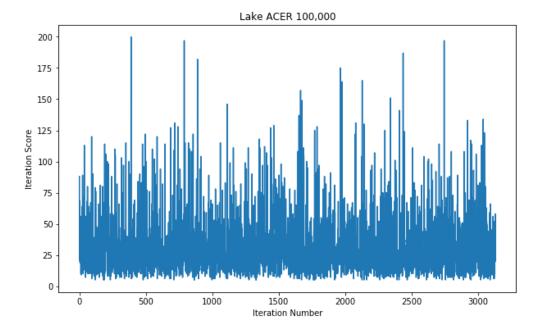
after removing the cwd from sys.path.



```
In [122]: # LAKE ACER 100000
# Read in File as pandas dataframe
file_data = pd.read_csv("lake/lake_acer_100000.csv")
lake_acer_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 = pd.to_numeric(lake_acer_100000_df.index.values)
y = pd.to_numeric(lake_acer_100000_df.l.values)
ax.set_title("Lake ACER 100,000")
ax.set_xlabel("Iteration Number")
ax.set_ylabel("Iteration Score")
ax.plot(x, y);
```

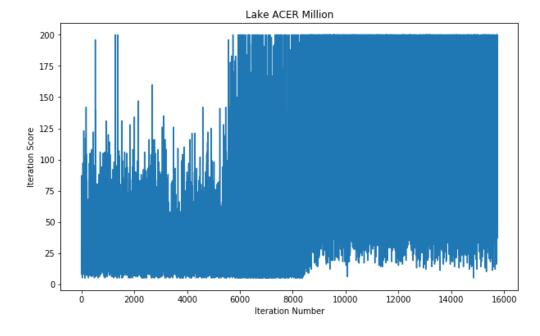
after removing the cwd from sys.path.



```
In [123]: # LAKE ACER MILLION
# Read in File as pandas dataframe
file_data = pd.read_csv("lake/lake_acer_million.csv")
lake_acer_million_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(lake_acer_million_df.index.values)
y = pd.to_numeric(lake_acer_million_df.l.values)
ax.set_title("Lake ACER Million")
ax.set_xlabel("Iteration Number")
ax.set_ylabel("Iteration Score")
ax.plot(x, y);
```

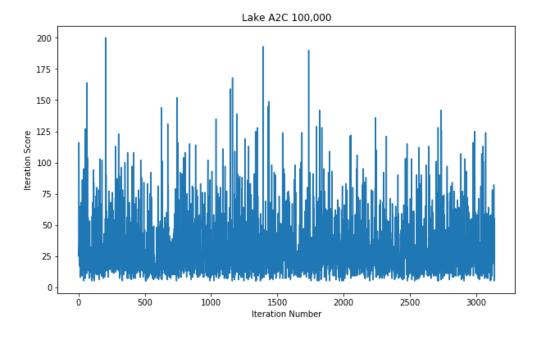
after removing the cwd from sys.path.



```
In [124]: # LAKE A2C 100,000
# Read in File as pandas dataframe
file_data = pd.read_csv("lake/lake_a2c_100000.csv")
lake_a2c_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 = pd.to_numeric(lake_a2c_100000_df.index.values)
y = pd.to_numeric(lake_a2c_100000_df.l.values)
ax.set_title("Lake A2C 100,000")
ax.set_xlabel("Iteration Number")
ax.set_ylabel("Iteration Score")
ax.plot(x, y);
```

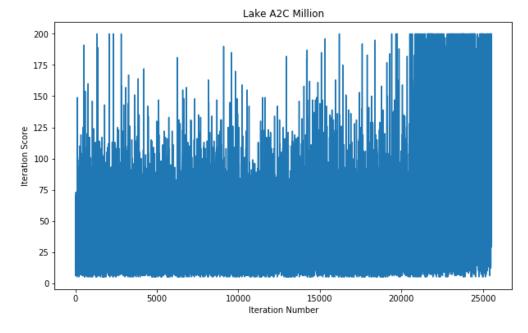
after removing the cwd from sys.path.



```
In [125]: # LAKE A2C MILLION
    # Read in File as pandas dataframe
    file_data = pd.read_csv("lake/lake_a2c_million.csv")
    lake_a2c_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(lake_a2c_million_df.index.values)
    y = pd.to_numeric(lake_a2c_million_df.l.values)
    ax.set_title("Lake 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 [ ]:

In [ ]:

In [ ]:

In [ ]:
```