visualization3_pandas

April 16, 2019

```
from sklearn.datasets import load_iris
    iris = load_iris()
    iris_df = pd.DataFrame(iris.data, columns=iris.feature_names)
    groups = list(iris.target)
    iris_df['groups'] = pd.Series([iris.target_names[k] for k in groups])

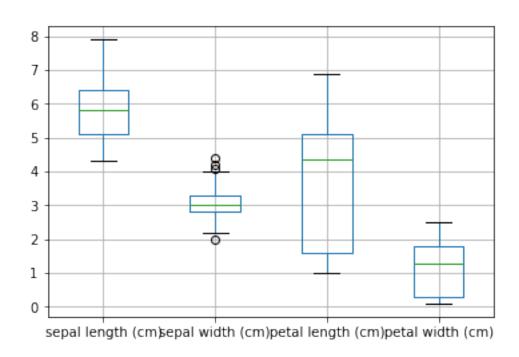
D:\Python\Lib\importlib\_bootstrap.py:219: RuntimeWarning: numpy.ufunc size changed, may indicate turn f(*args, **kwds)

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In [3]: boxplots = iris_df.boxplot(return_type='axes')
```

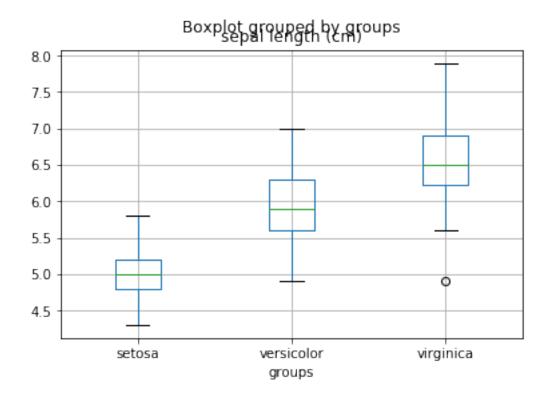
Out[3]: <matplotlib.axes._subplots.AxesSubplot at 0x1fd084e3748>

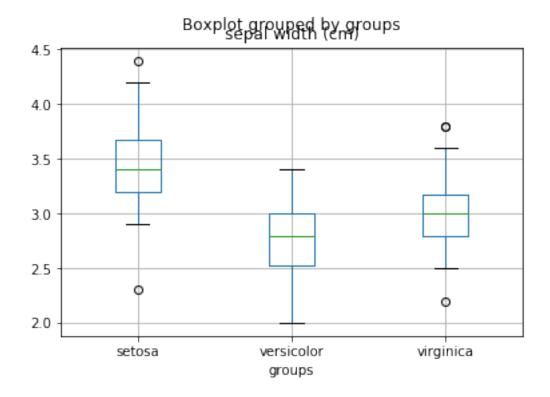
In [1]: import pandas as pd

boxplots

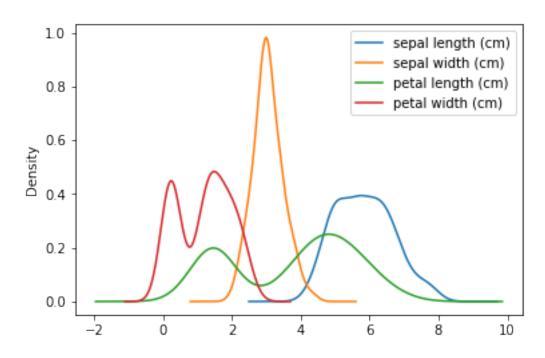


In [6]: boxplots = iris_df.boxplot(column='sepal length (cm)', by='groups', return_type='axes'
boxplots

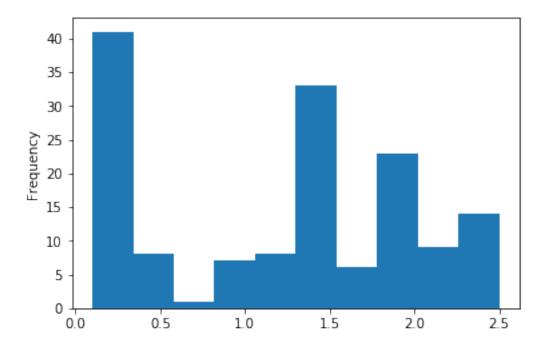




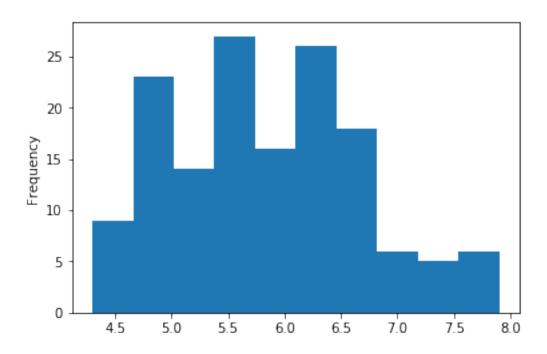
Out[8]: <matplotlib.axes._subplots.AxesSubplot at 0x1fd08898128>

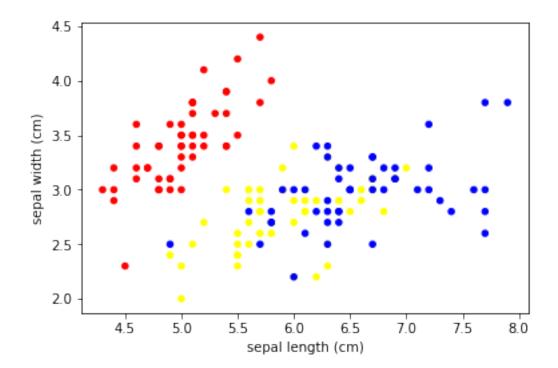


In [10]: single_distribution = iris_df['petal width (cm)'].plot(kind='hist', alpha=1)

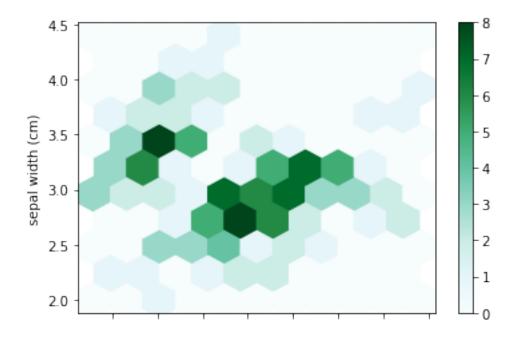


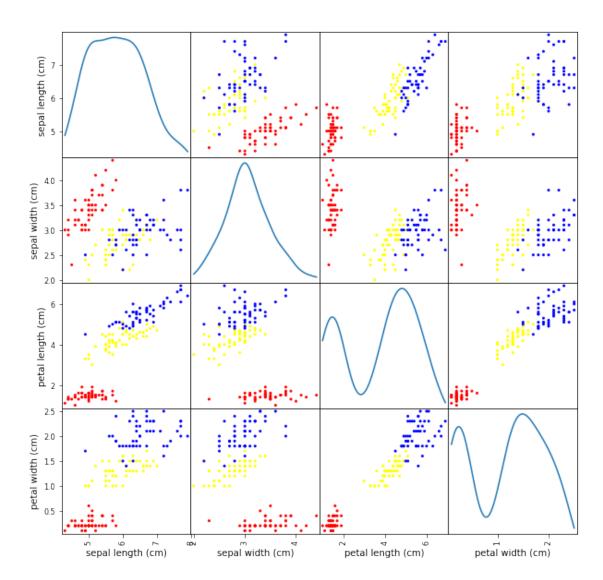
In [11]: single_distribution = iris_df['sepal length (cm)'].plot(kind='hist', alpha=1)



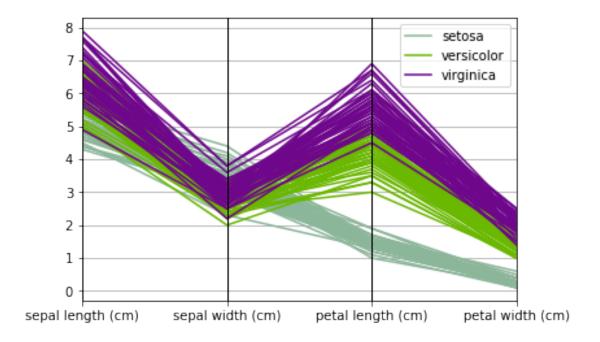


In [15]: hexbib = iris_df.plot(kind='hexbin',x=0, y=1, gridsize=10)





In [22]: from pandas.plotting import parallel_coordinates
 pll = parallel_coordinates(iris_df, 'groups')



In []: