Distplots Exercise

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In [1]: import pandas as pd
         import numpy as np
         import plotly.offline as pyo
         import plotly.figure_factory as ff
In [2]: iris_data_csv = pd.read_csv("iris.csv", usecols = ["petal_length", "class"])
        iris_data_csv
            petal_length
                          class
Out[2]:
                  1.4 Iris-setosa
         1
                  1.4 Iris-setosa
                  1.3 Iris-setosa
                  1.5 Iris-setosa
         4
                  1.4 Iris-setosa
        145
                  5.2 Iris-virginica
        146
                  5.0 Iris-virginica
        147
                  5.2 Iris-virginica
        148
                  5.4 Iris-virginica
        149
                  5.1 Iris-virginica
       150 rows × 2 columns
In [3]: iris_data_csv.info()
        <class 'pandas.core.frame.DataFrame'>
        RangeIndex: 150 entries, 0 to 149
        Data columns (total 2 columns):
        # Column
                        Non-Null Count Dtype
                         -----
        0 petal_length 150 non-null float64
                     150 non-null
                                       object
        1 class
        dtypes: float64(1), object(1)
        memory usage: 2.5+ KB
In [4]: iris_data_csv.describe()
Out[4]:
             petal_length
        count 150.000000
               3.758667
        mean
                1.764420
                1.000000
         25%
                1.600000
                4.350000
                5.100000
                6.900000
         max
In [5]: data_to_plot_1_Iris_setosa = iris_data_csv[iris_data_csv['class']=='Iris-setosa']['petal_length']
         data_to_plot_2_Iris_versicolor = iris_data_csv[iris_data_csv['class']=='Iris-versicolor']['petal_length']
        data_to_plot_3_Iris_virginica = iris_data_csv[iris_data_csv['class']=='Iris-virginica']['petal_length']
In [6]: hist_data = [data_to_plot_1_Iris_setosa, data_to_plot_2_Iris_versicolor, data_to_plot_3_Iris_virginica]
In [7]: group_labels = ["Iris Setosa", "Iris Versicolor", "Iris Virginica"]
In [8]: fig = ff.create_distplot(hist_data,
                                group_labels)
In [9]: pyo.iplot(fig)
       0
       Q+ 0
       + = \times \wedge
               2.5
               1.5
               0.5
```

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In [10]: pyo.plot(fig, filename = "tutorial_20 (Distplots Exercise){Graph}.html")
Out[10]: 'tutorial_20 (Distplots Exercise){Graph}.html'
```

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The Instructor Solution is given below





