

```
In [1]: import pandas as pd
import warnings
warnings.filterwarnings("ignore")
import seaborn as sns
import matplotlib.pyplot as plt
sns.set(style="white",color_codes=True)
```

```
In [10]: iris = pd.read_csv("C:/Users/GAUTHAM/Desktop/Iris.csv")

iris.head()
```

Out[10]:

	Id	SepalLengthCm	SepalWidthCm	PetalLengthCm	PetalWidthCm	Species
0	1	5.1	3.5	1.4	0.2	Iris-setosa
1	2	4.9	3.0	1.4	0.2	Iris-setosa
2	3	4.7	3.2	1.3	0.2	Iris-setosa
3	4	4.6	3.1	1.5	0.2	Iris-setosa
4	5	5.0	3.6	1.4	0.2	Iris-setosa

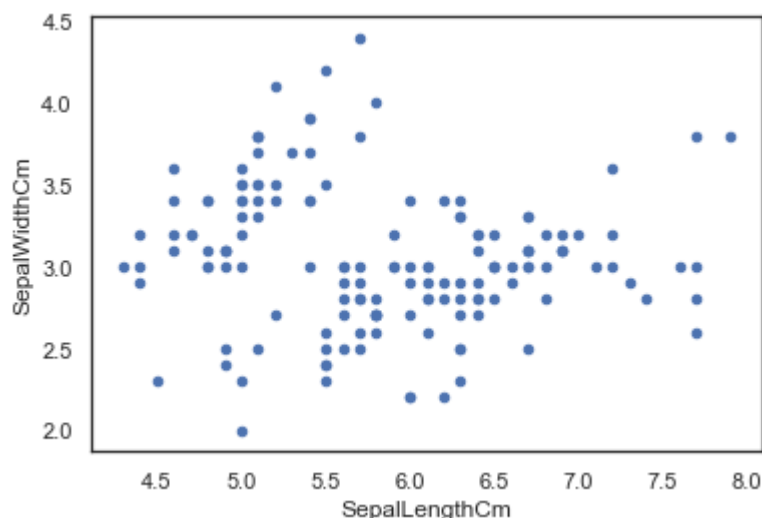
```
In [16]: iris["Species"].value_counts()
```

```
Out[16]: Iris-versicolor    50
Iris-virginica             50
Iris-setosa                 50
Name: Species, dtype: int64
```

```
In [17]: iris.plot(kind="scatter",x="SepalLengthCm",y="SepalWidthCm")
```

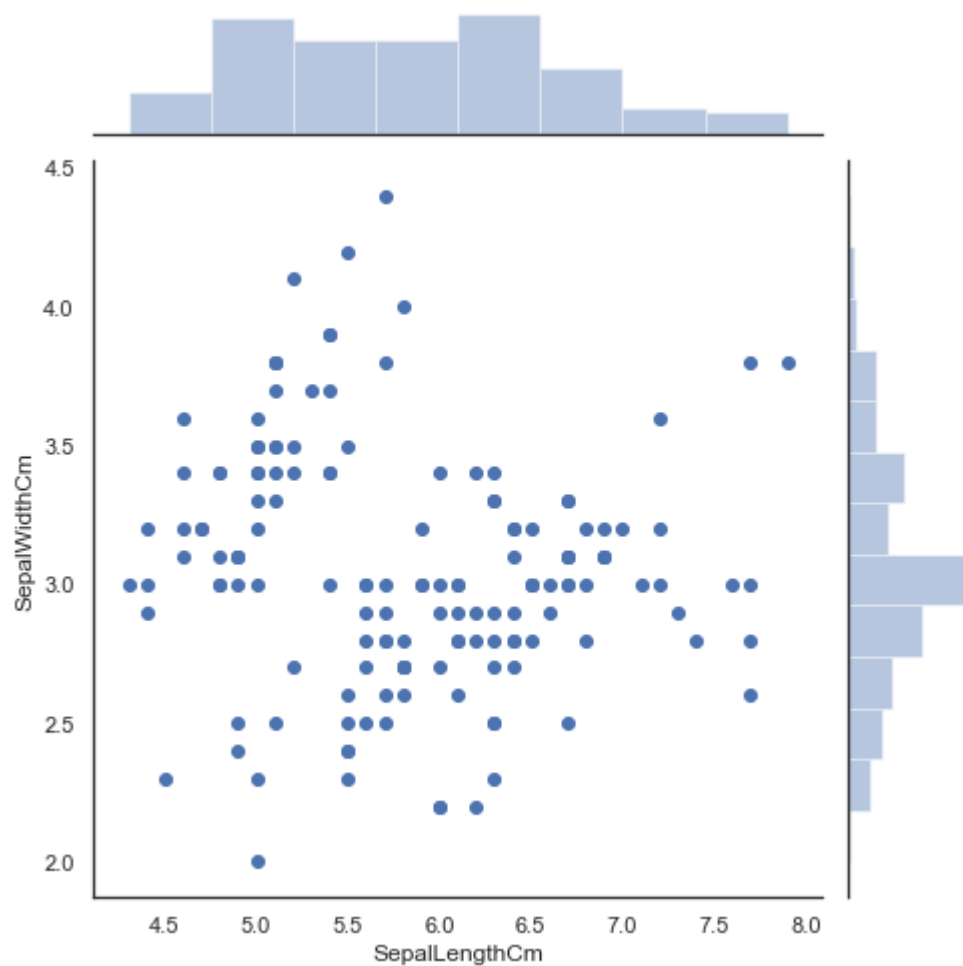
'c' argument looks like a single numeric RGB or RGBA sequence, which should be avoided as value-mapping will have precedence in case its length matches with 'x' & 'y'. Please use a 2-D array with a single row if you really want to specify the same RGB or RGBA value for all points.

```
Out[17]: <matplotlib.axes._subplots.AxesSubplot at 0x2020ba9f0c8>
```



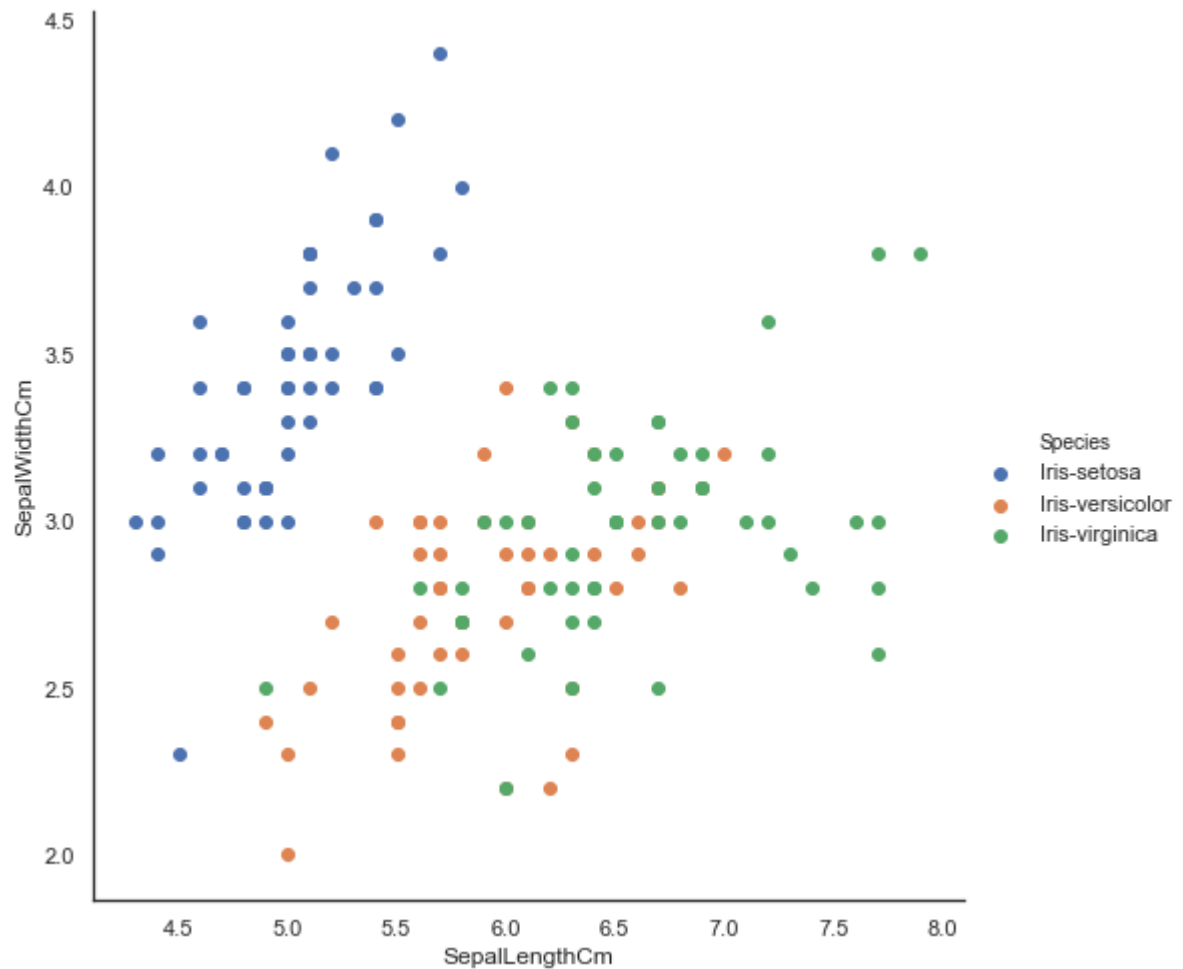
```
In [20]: sns.jointplot(x="SepalLengthCm",y="SepalWidthCm",data=iris,size=7)
```

```
Out[20]: <seaborn.axisgrid.JointGrid at 0x2020bd50d08>
```



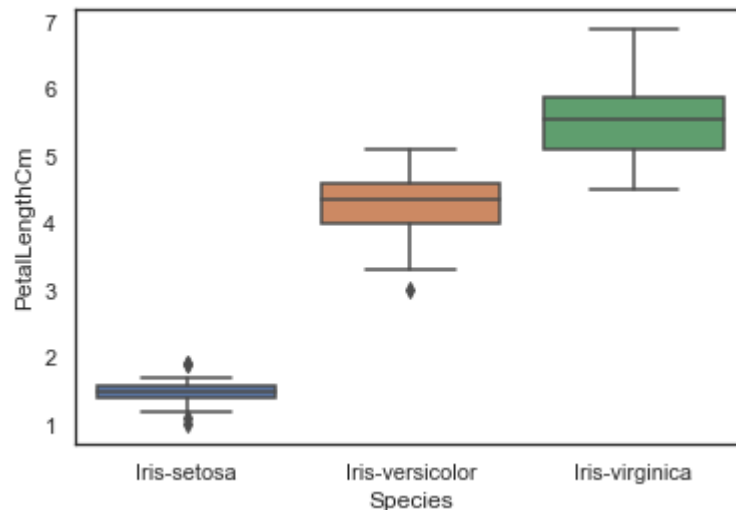
```
In [21]: sns.FacetGrid(iris, hue="Species", size=7) \
        .map(plt.scatter, "SepalLengthCm", "SepalWidthCm") \
        .add_legend()
```

Out[21]: <seaborn.axisgrid.FacetGrid at 0x2020c152548>

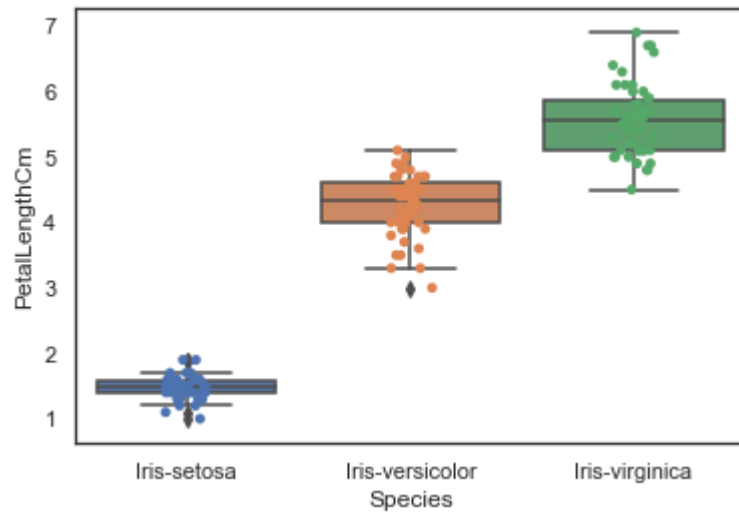


```
In [24]: sns.boxplot(x="Species", y="PetalLengthCm", data=iris)
```

Out[24]: <matplotlib.axes._subplots.AxesSubplot at 0x2020c186688>

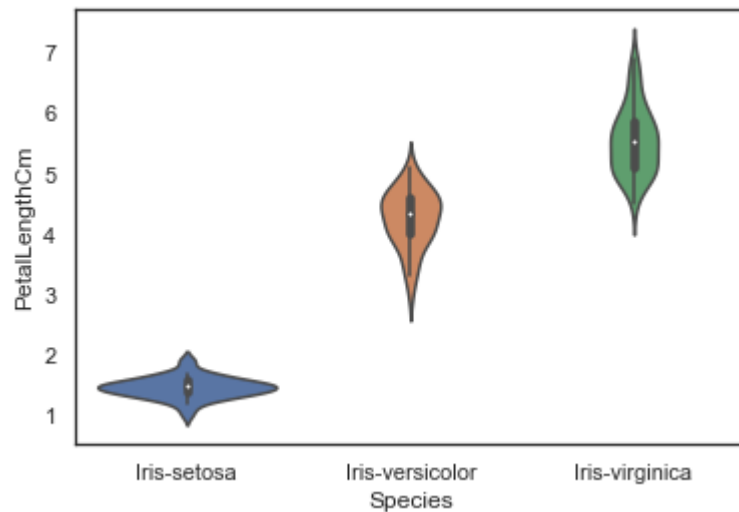


```
In [27]: ax = sns.boxplot(x="Species", y="PetalLengthCm", data=iris)
ax = sns.stripplot(x="Species", y="PetalLengthCm", data=iris, jitter=True,
edgecolor="red")
```



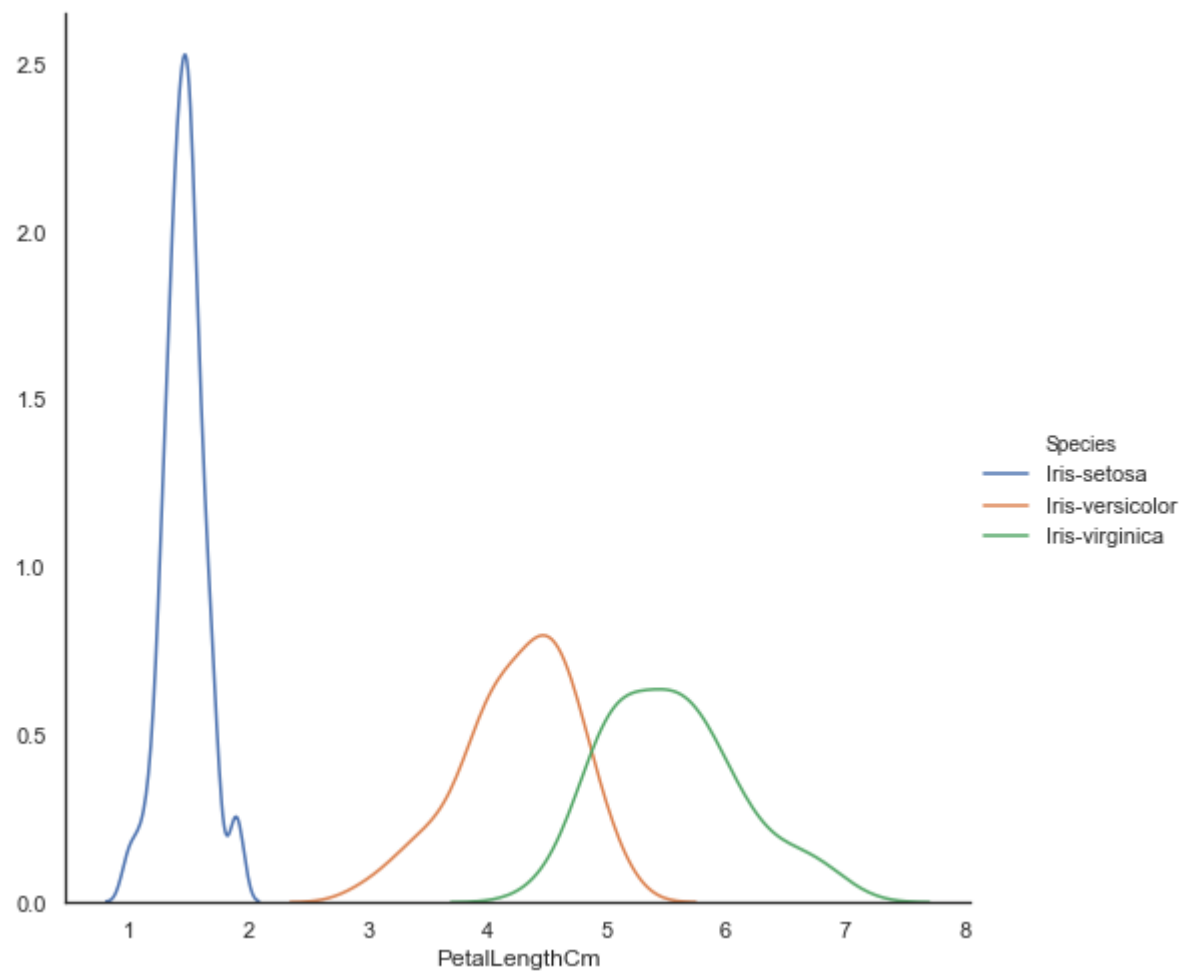
```
In [28]: sns.violinplot(x="Species",y="PetalLengthCm",data=iris,size=7)
```

Out[28]: <matplotlib.axes._subplots.AxesSubplot at 0x2020c5cd308>



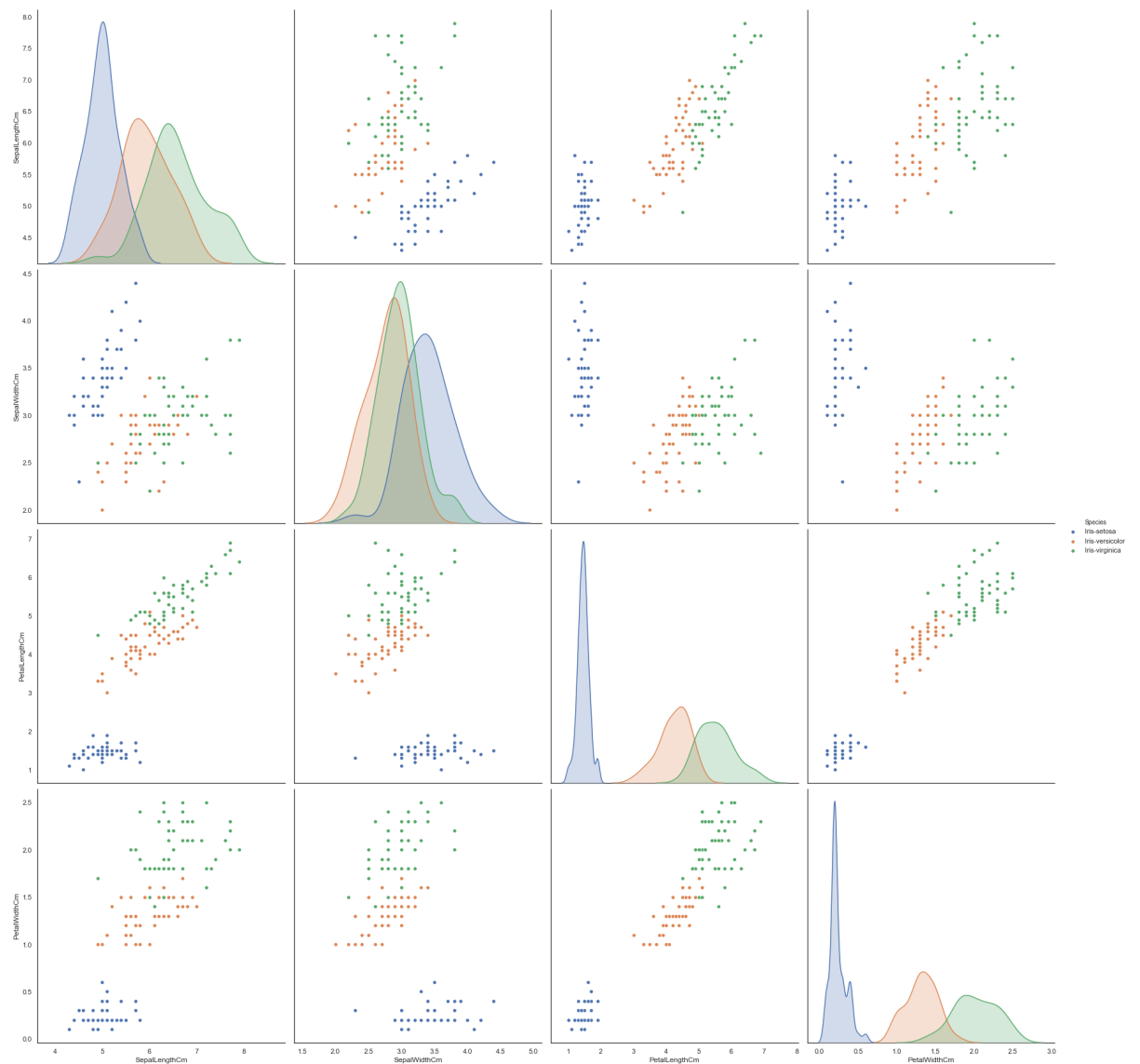
```
In [29]: sns.FacetGrid(iris, hue="Species", size=7) \
        .map(sns.kdeplot, "PetalLengthCm") \
        .add_legend()
```

Out[29]: <seaborn.axisgrid.FacetGrid at 0x2020c752d88>



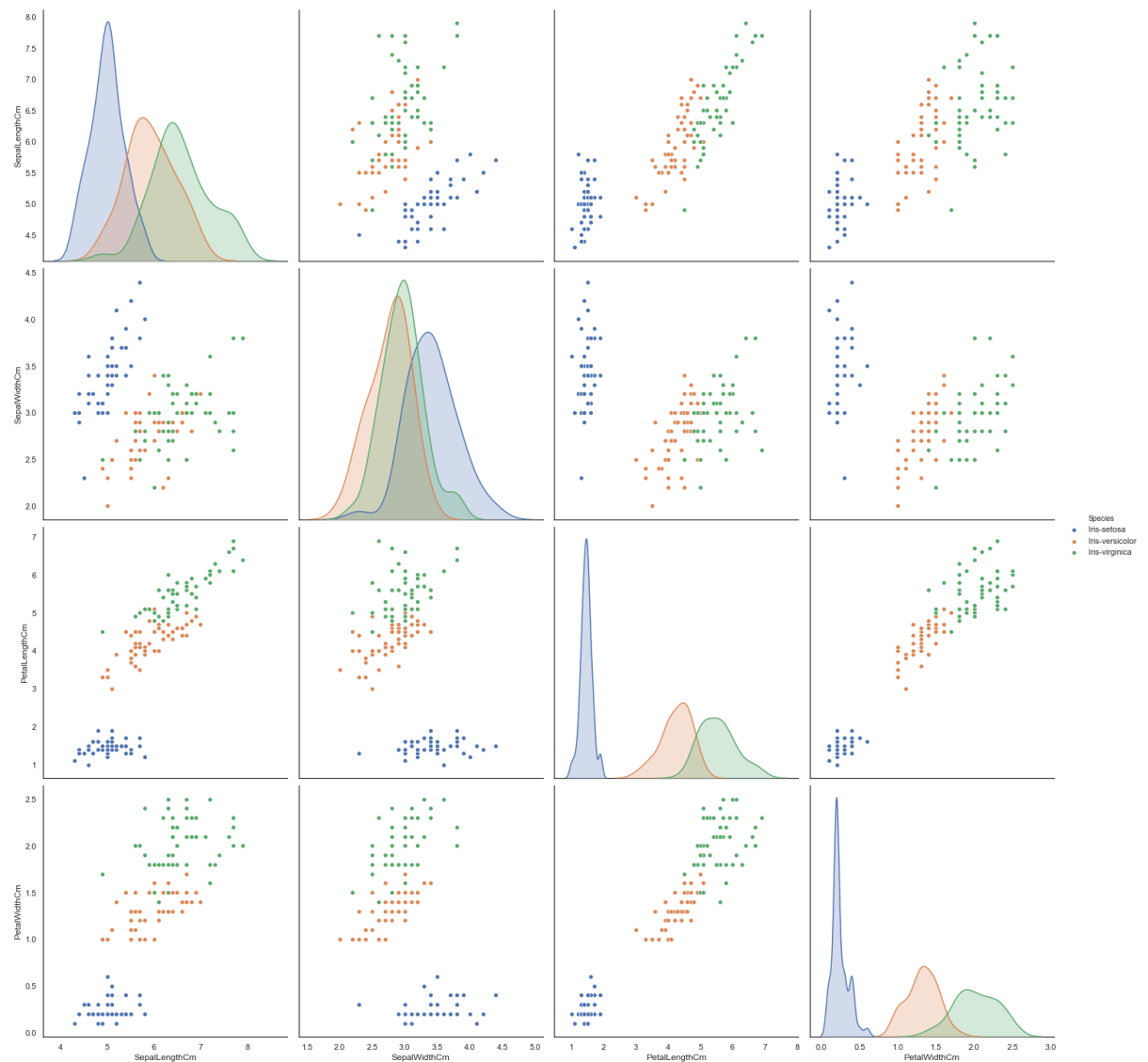
```
In [31]: sns.pairplot(iris.drop("Id", axis=1), hue="Species", size=6)
```

```
Out[31]: <seaborn.axisgrid.PairGrid at 0x2020e607fc8>
```



```
In [33]: sns.pairplot(iris.drop("Id", axis=1), hue="Species", size=5, diag_kind="kde")
```

```
Out[33]: <seaborn.axisgrid.PairGrid at 0x2020ecd9588>
```



```
In [34]: iris.drop("Id", axis=1).boxplot(by="Species", figsize=(12, 6))
```

```
Out[34]: array([[<matplotlib.axes._subplots.AxesSubplot object at 0x0000020213CA5408
>,
      <matplotlib.axes._subplots.AxesSubplot object at 0x0000020213CC99C8
>],
      [<matplotlib.axes._subplots.AxesSubplot object at 0x0000020213CD3FC8
>,
      <matplotlib.axes._subplots.AxesSubplot object at 0x0000020213D0D2C8
>]],
      dtype=object)
```

