

```
In [3]: import numpy as np
```

```
In [4]: import pandas as pd
```

```
In [5]: import seaborn as sns
```

```
In [6]: import matplotlib.pyplot as plt
```

```
In [7]: import warnings
```

```
In [8]: warnings.filterwarnings('ignore')
```

```
In [9]: iris=pd.read_csv(r'C:\Users\Admin\Downloads\10th,11th (1)\10th,11th\IRIS DATA\
```

```
In [10]: iris
```

```
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    |
| ... | ... | ...           | ...          | ...           | ...          | ...            |
| 145 | 146 | 6.7           | 3.0          | 5.2           | 2.3          | Iris-virginica |
| 146 | 147 | 6.3           | 2.5          | 5.0           | 1.9          | Iris-virginica |
| 147 | 148 | 6.5           | 3.0          | 5.2           | 2.0          | Iris-virginica |
| 148 | 149 | 6.2           | 3.4          | 5.4           | 2.3          | Iris-virginica |
| 149 | 150 | 5.9           | 3.0          | 5.1           | 1.8          | Iris-virginica |

150 rows × 6 columns

```
In [11]: iris.head()
```

```
Out[11]:
```

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

```
In [12]: iris.drop('Id',axis=1,inplace=True)
```

```
In [13]: iris.head()
```

```
Out[13]:
```

|          | <b>SepalLengthCm</b> | <b>SepalWidthCm</b> | <b>PetalLengthCm</b> | <b>PetalWidthCm</b> | <b>Species</b> |
|----------|----------------------|---------------------|----------------------|---------------------|----------------|
| <b>0</b> | 5.1                  | 3.5                 | 1.4                  | 0.2                 | Iris-setosa    |
| <b>1</b> | 4.9                  | 3.0                 | 1.4                  | 0.2                 | Iris-setosa    |
| <b>2</b> | 4.7                  | 3.2                 | 1.3                  | 0.2                 | Iris-setosa    |
| <b>3</b> | 4.6                  | 3.1                 | 1.5                  | 0.2                 | Iris-setosa    |
| <b>4</b> | 5.0                  | 3.6                 | 1.4                  | 0.2                 | Iris-setosa    |

```
In [14]: iris.info()
```

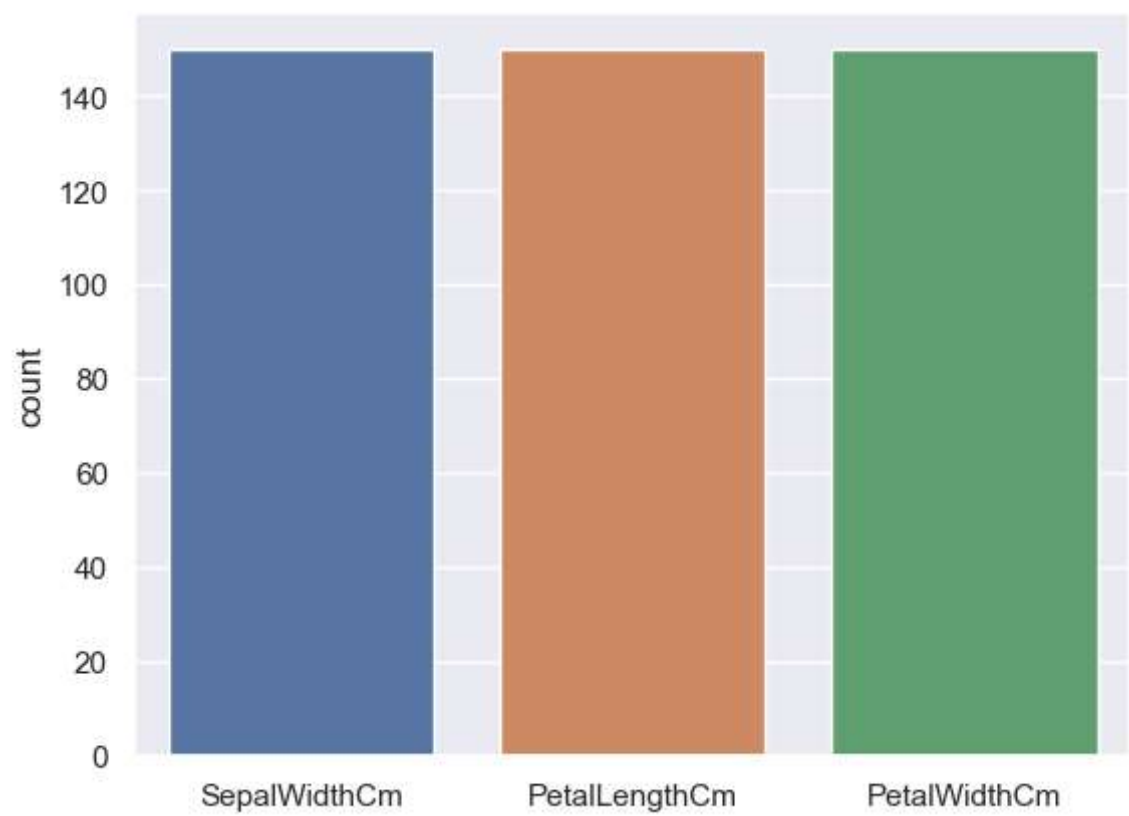
```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 150 entries, 0 to 149
Data columns (total 5 columns):
 #   Column          Non-Null Count  Dtype
---  -
 0   SepalLengthCm   150 non-null   float64
 1   SepalWidthCm    150 non-null   float64
 2   PetalLengthCm   150 non-null   float64
 3   PetalWidthCm    150 non-null   float64
 4   Species         150 non-null   object
dtypes: float64(4), object(1)
memory usage: 6.0+ KB
```

```
In [15]: iris['Species'].value_counts()
```

```
Out[15]: Iris-setosa      50
Iris-versicolor    50
Iris-virginica      50
Name: Species, dtype: int64
```

```
In [79]: sns.countplot(data=iris)
```

Out[79]: <Axes: ylabel='count'>

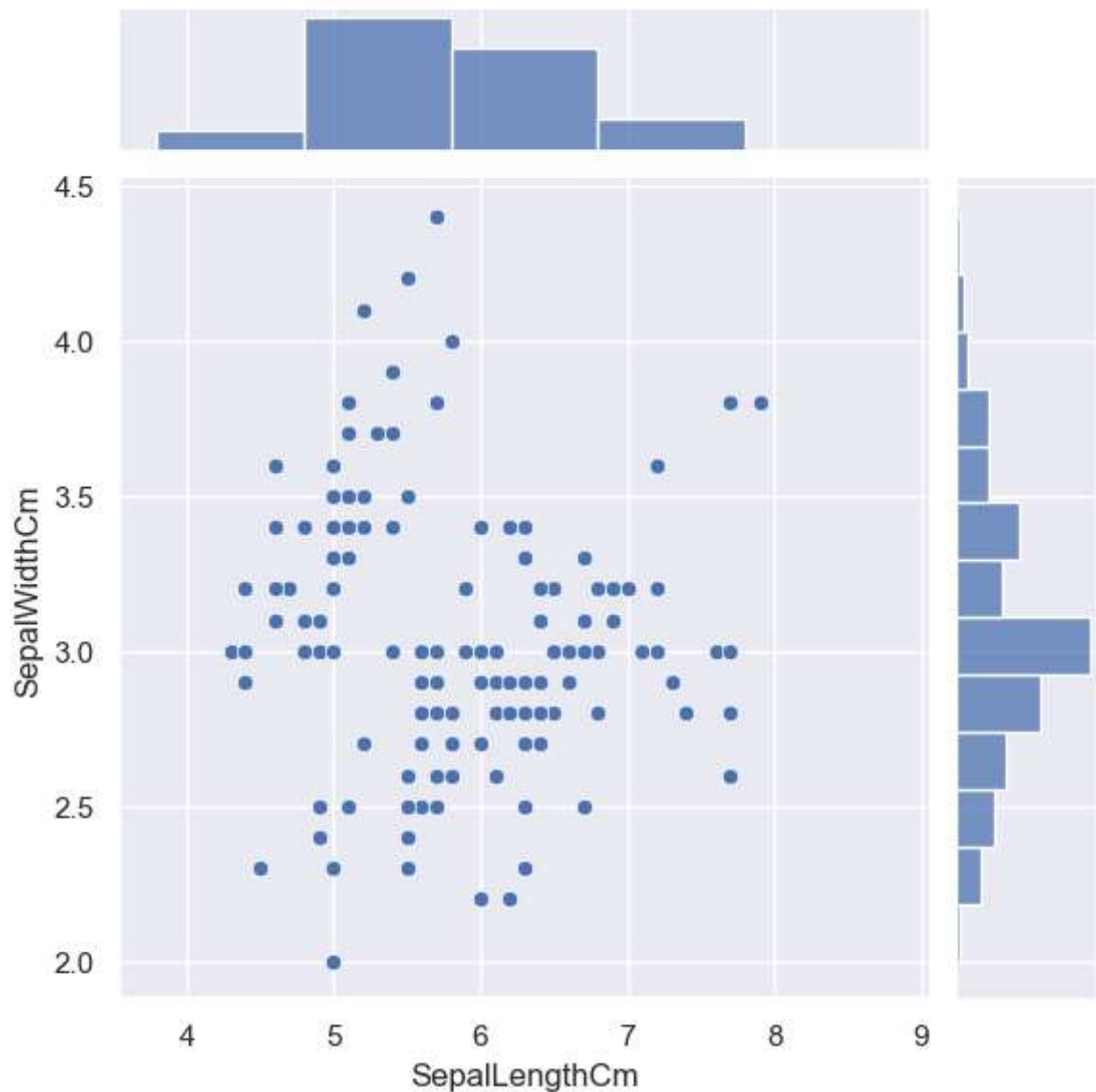


```
In [80]: iris.head()
```

Out[80]:

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

```
In [81]: fig=sns.jointplot(x='SepalLengthCm',y='SepalWidthCm',data=iris)
```



## **\*\* FacetGrid Plot\*\***

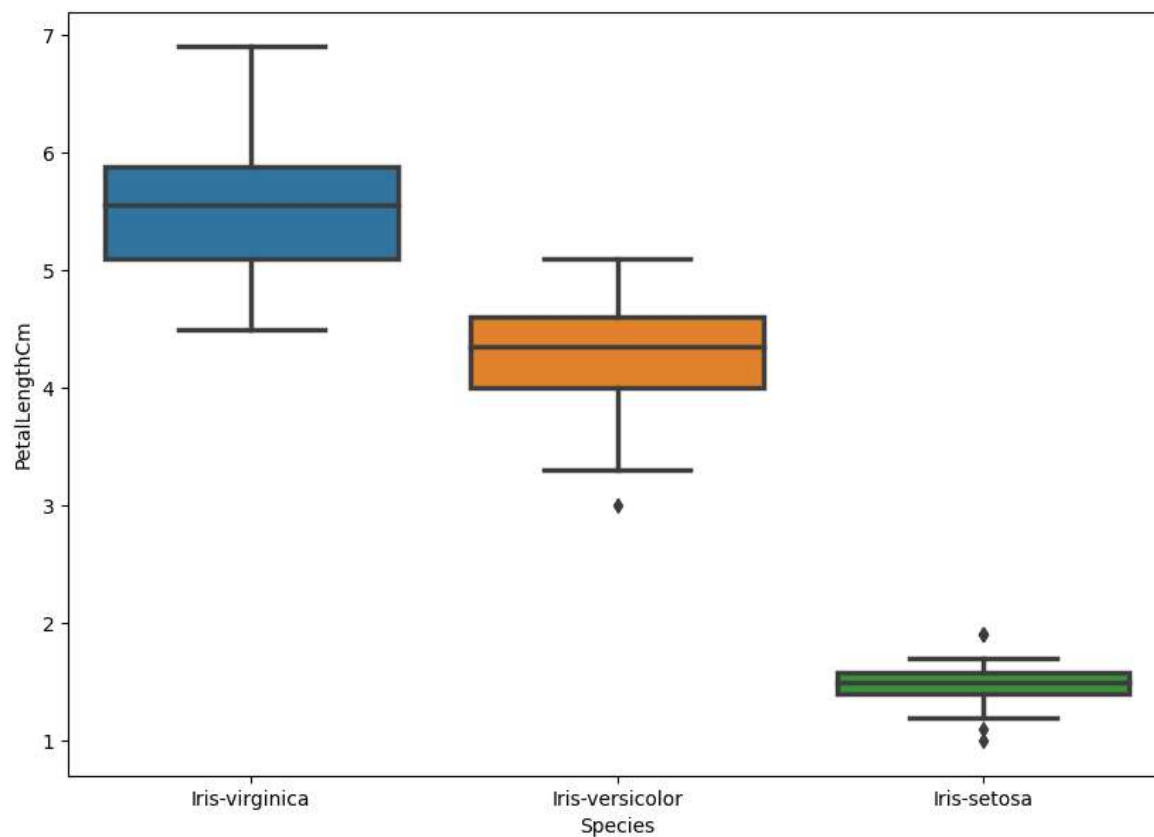
```
In [ ]: import matplotlib.pyplot as plt
%matplotlib inline
sns.FacetGrid(iris,hue='Species').map(plt.scatter,'SepalLengthCm','SepalWidthCm')
```

## **6. Boxplot or Whisker plot**

Box plot was first introduced in year 1969 by Mathematician John Tukey. Box plot give a statistical summary of the features being plotted. Top line represent the max value, top edge of box is third Quartile, middle edge represents the median, bottom edge represents the first

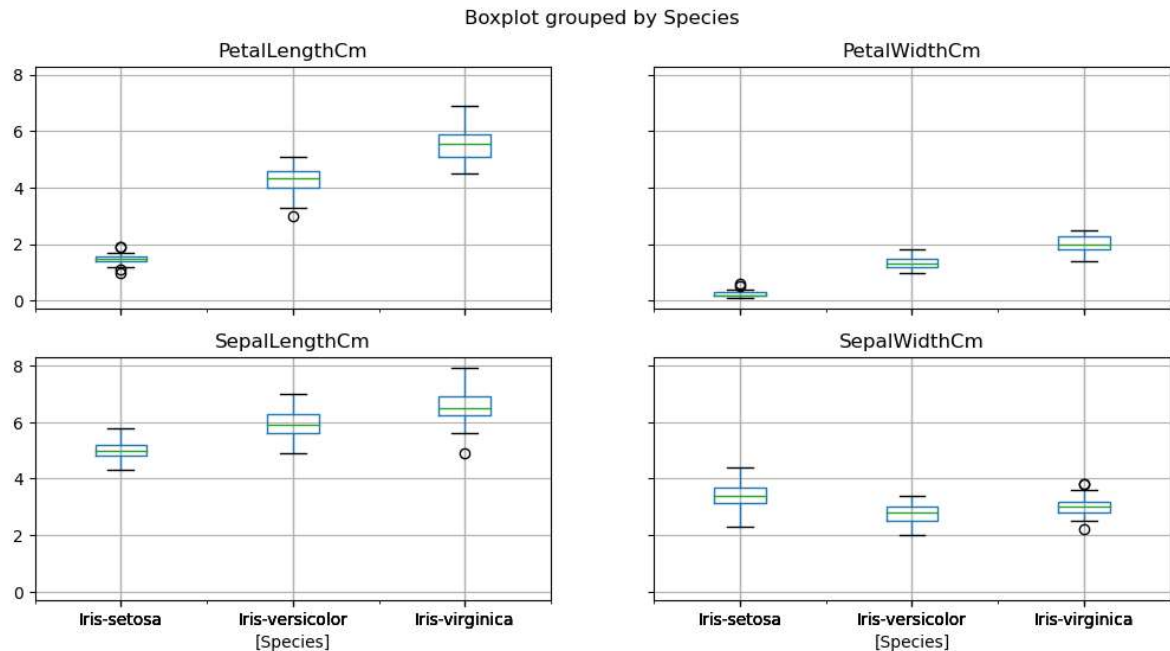
```
In [ ]: iris.head()
```

```
In [17]: fig=plt.gcf()
fig.set_size_inches(10,7)
fig=sns.boxplot(x='Species',y='PetalLengthCm',data=iris,order=['Iris-virginica',
```



```
In [18]: iris.boxplot(by="Species", figsize=(12, 6))
```

```
Out[18]: array([[<Axes: title={'center': 'PetalLengthCm'}, xlabel='[Species]'],
  <Axes: title={'center': 'PetalWidthCm'}, xlabel='[Species]'],
  [<Axes: title={'center': 'SepalLengthCm'}, xlabel='[Species]'],
  <Axes: title={'center': 'SepalWidthCm'}, xlabel='[Species]']],
  dtype=object)
```

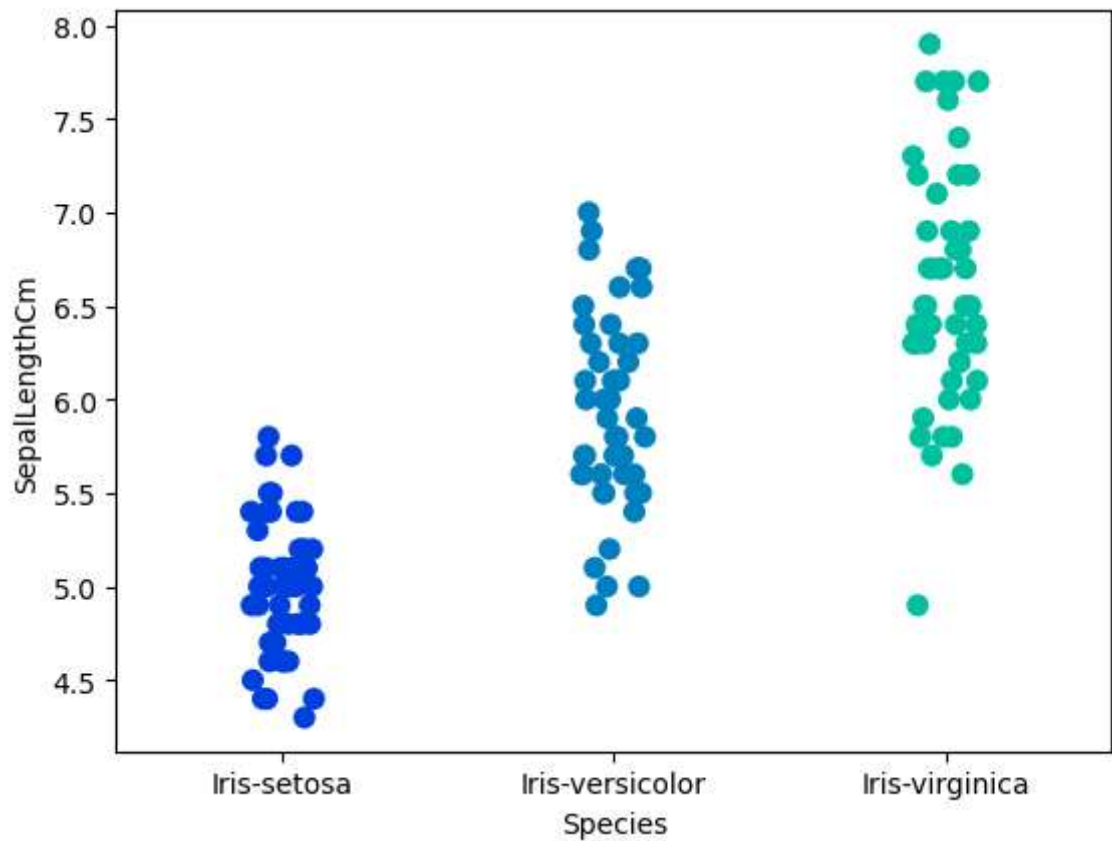


## "7. Strip plot"

```
In [19]: fig=plt.gcf()
fig.set_size_inches(10,7)
```

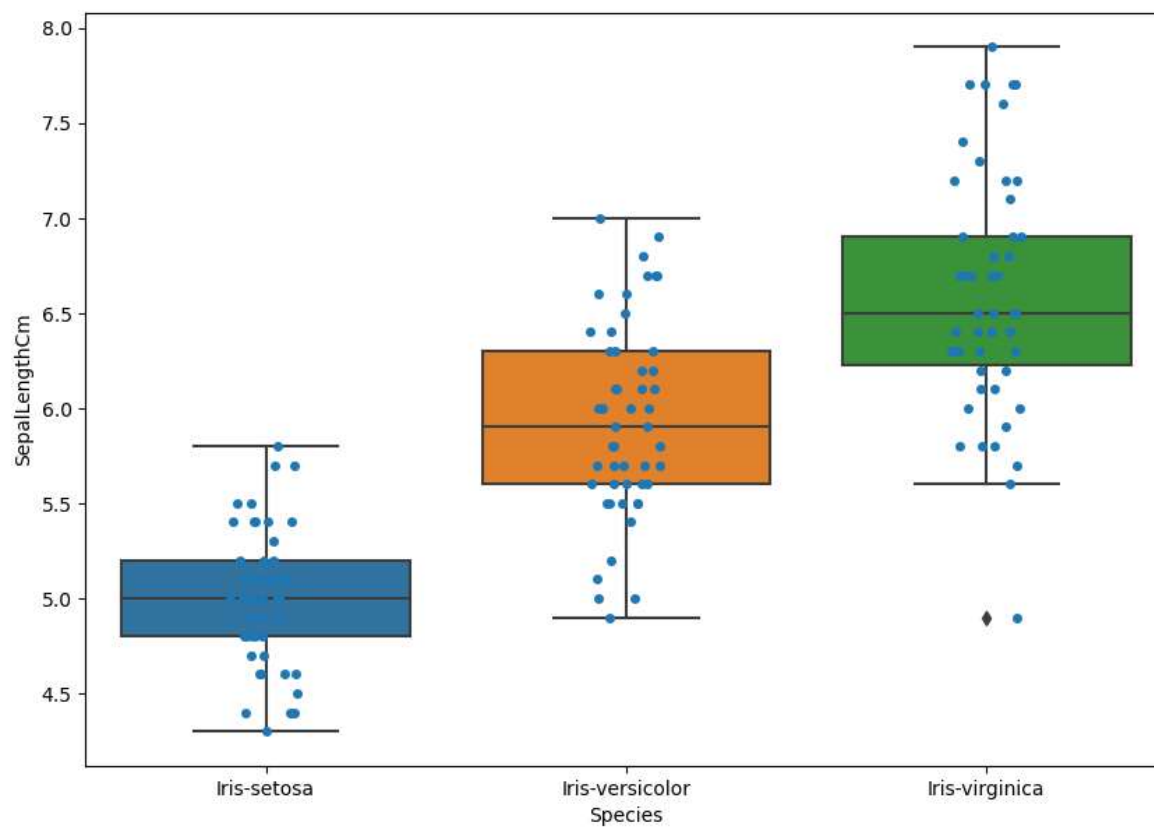
<Figure size 1000x700 with 0 Axes>

```
In [20]: fig=sns.stripplot(x='Species',y='SepalLengthCm',data=iris,jitter=True,edgecolor
```



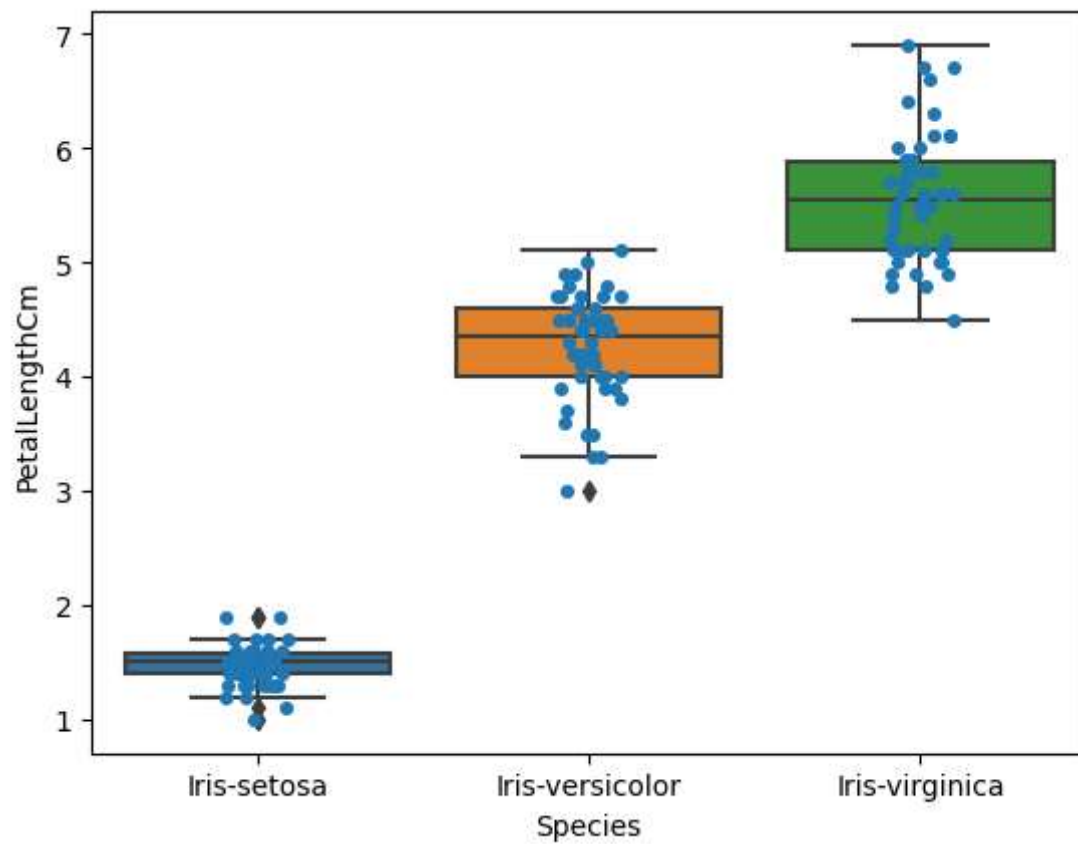
## 8. Combining Box and Strip Plots

```
In [21]: fig=plt.gcf()
fig.set_size_inches(10,7)
fig=sns.boxplot(x='Species',y='SepalLengthCm',data=iris)
fig=sns.stripplot(x='Species',y='SepalLengthCm',data=iris,jitter=True,edgecolor='blue')
```





```
In [22]: ax = sns.boxplot(x="Species", y="PetalLengthCm", data=iris)
ax = sns.stripplot(x="Species", y="PetalLengthCm", data=iris, jitter=True, edge
```



```
In [23]: # boxtwo = ax.artists[2]
# boxtwo.set_facecolor('yellow')
# boxtwo.set_edgecolor('black')
boxthree=ax.artists[1]
boxthree.set_facecolor('red')
boxthree.set_edgecolor('black')
boxthree=ax.artists[0]
boxthree.set_facecolor('green')
boxthree.set_edgecolor('black')
```

-----  
**IndexError**

Traceback (most recent call last)

Cell In[23], line 4

```
1 # boxtwo = ax.artists[2]
2 # boxtwo.set_facecolor('yellow')
3 # boxtwo.set_edgecolor('black')
----> 4 boxthree=ax.artists[1]
5 boxthree.set_facecolor('red')
6 boxthree.set_edgecolor('black')
```

File ~\anaconda3\lib\site-packages\matplotlib\axes\\_base.py:1457, in \_AxesBase.ArtistList.\_\_getitem\_\_(self, key)

```
1456 def __getitem__(self, key):
-> 1457     return [artist
1458               for artist in self._axes._children
1459               if self._type_check(artist)][key]
```

**IndexError**: list index out of range

## 9. Violin Plot

It is used to visualize the distribution of data and its probability distribution. This chart is a combination of a Box Plot and a Density Plot that is rotated and placed on each side, to show the distribution shape of the data. The thick black bar in the centre represents the interquartile range, the thin black line extended from it represents the 95% confidence intervals, and the white dot is the median. Box Plots are limited in their display of the data, as their visual simplicity tends to hide significant details about how values in the data are distributed"

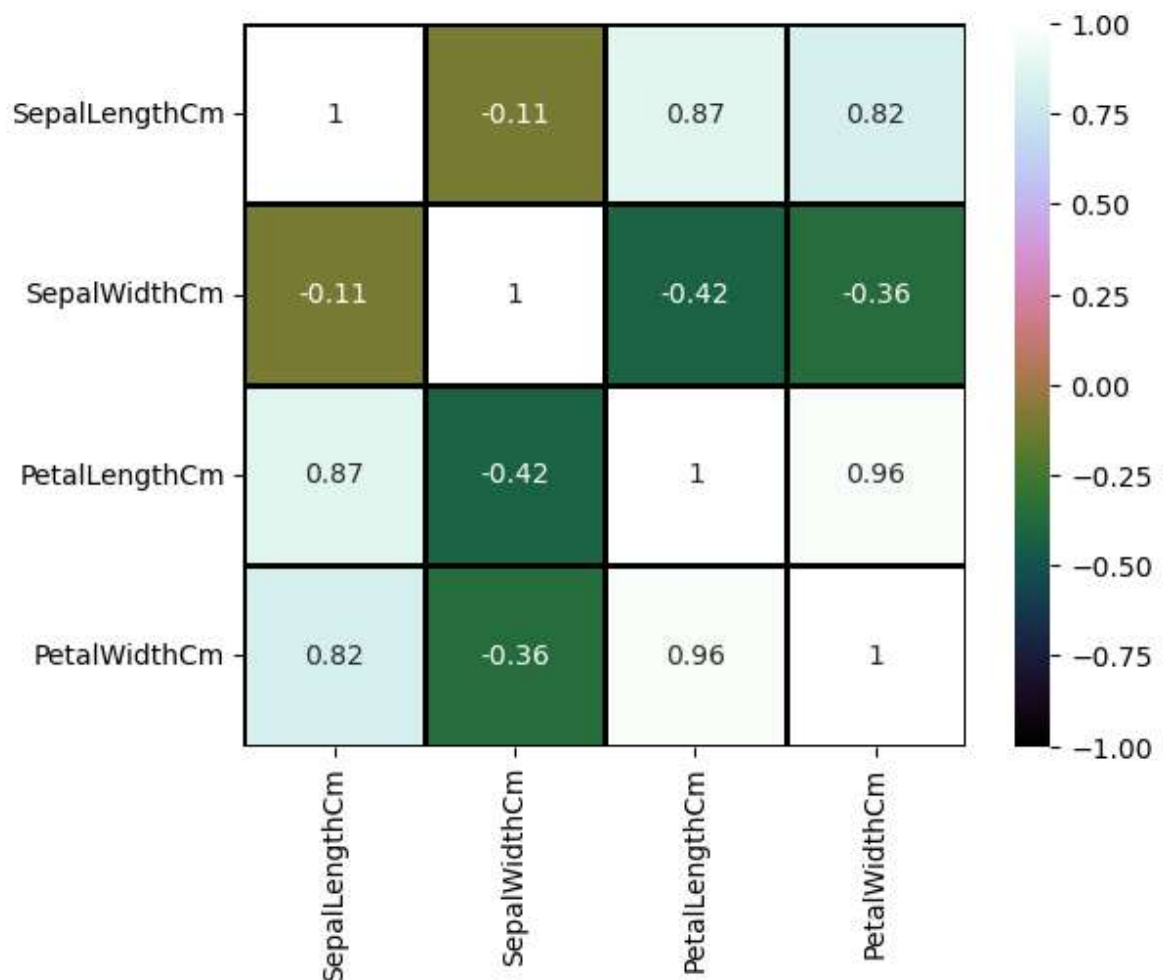
```
In [ ]: fig=plt.gcf()
fig.set_size_inches(10,7)
fig=sns.violinplot(x='Species',y='SepalLengthCm',data=iris)
```

```
In [ ]: plt.figure(figsize=(15,10))
```

```
In [ ]: plt.subplot(2,2,1)
```



```
In [24]: fig=sns.heatmap(iris.corr(),annot=True,cmap='cubehelix',linewidths=1,linecolo
```

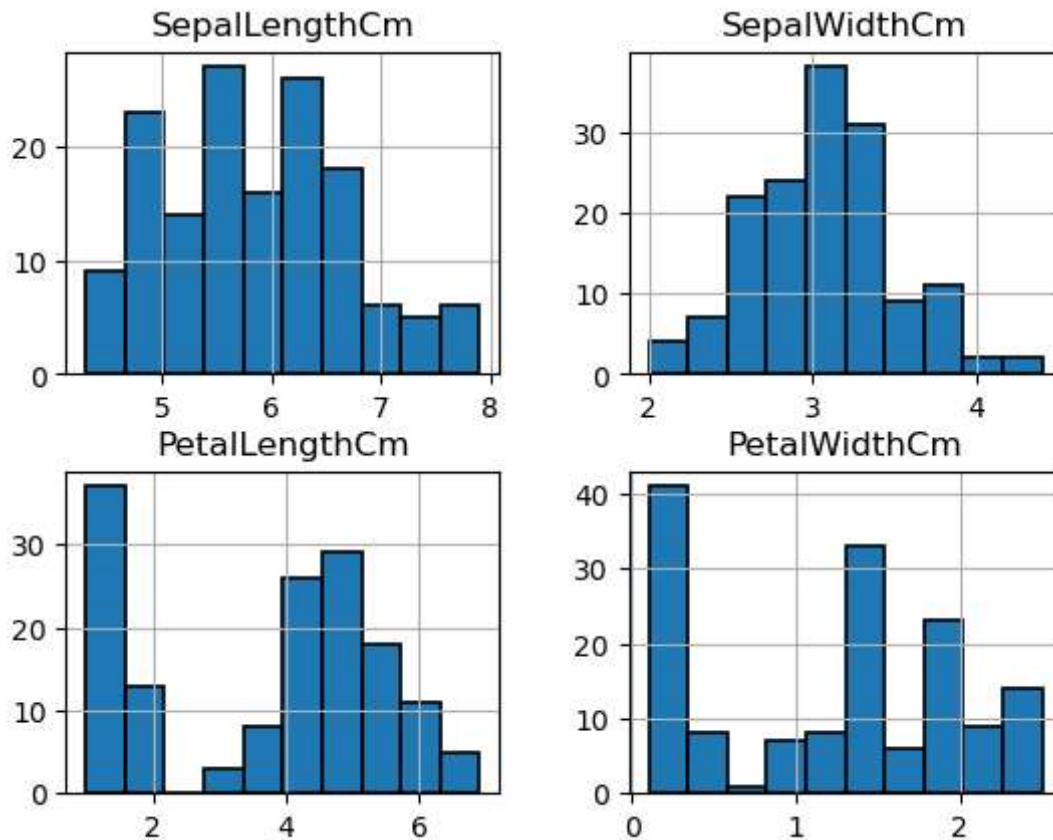


## \*\*\*12. Distribution plot:\*\*\n",

"The distribution plot is suitable for comparing range and distribution for groups of numerical data. Data is plotted as value points along an axis. You can choose to display only the value points to see the distribution of values, a bounding box to see the range of values, or a combination of both as shown here. The distribution plot is not relevant for detailed analysis of the data as it deals with a summary of the data distribution."

```
In [25]: iris.hist(edgecolor='black', linewidth=1.2)
```

```
Out[25]: array([[<Axes: title={'center': 'SepalLengthCm'}>,  
                <Axes: title={'center': 'SepalWidthCm'}>],  
               [<Axes: title={'center': 'PetalLengthCm'}>,  
                <Axes: title={'center': 'PetalWidthCm'}>]], dtype=object)
```



```
In [26]: fig=plt.gcf()  
fig.set_size_inches(12,6)
```

<Figure size 1200x600 with 0 Axes>

## "13. Swarm plot\n",

"It looks a bit like a friendly swarm of bees buzzing about their hive. More importantly, each data point is clearly visible and no data are obscured by overplotting. A beeswarm plot improves upon the random jittering approach to move data points the minimum distance away from one another to avoid overlays. The result is a plot where you can see each distinct data point, like shown in below plot"

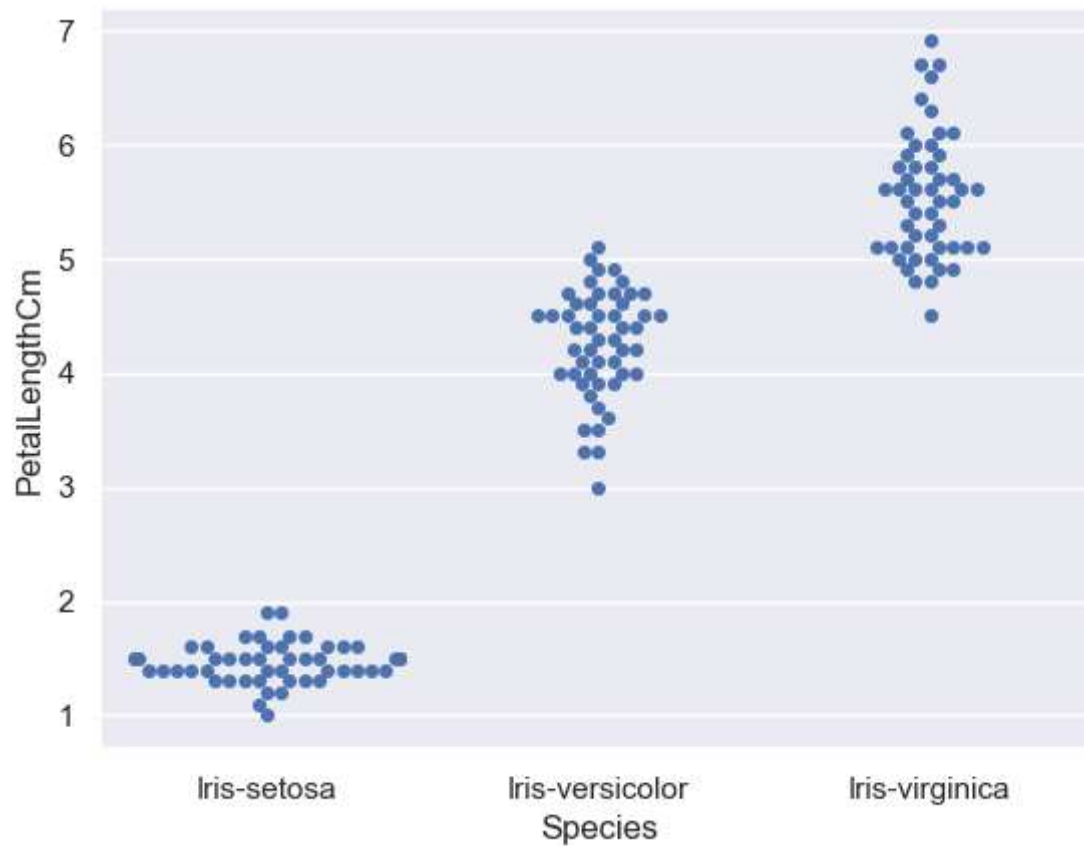
```
In [27]: sns.set(style="darkgrid")
```

```
In [28]: fig=plt.gcf()
```

<Figure size 640x480 with 0 Axes>

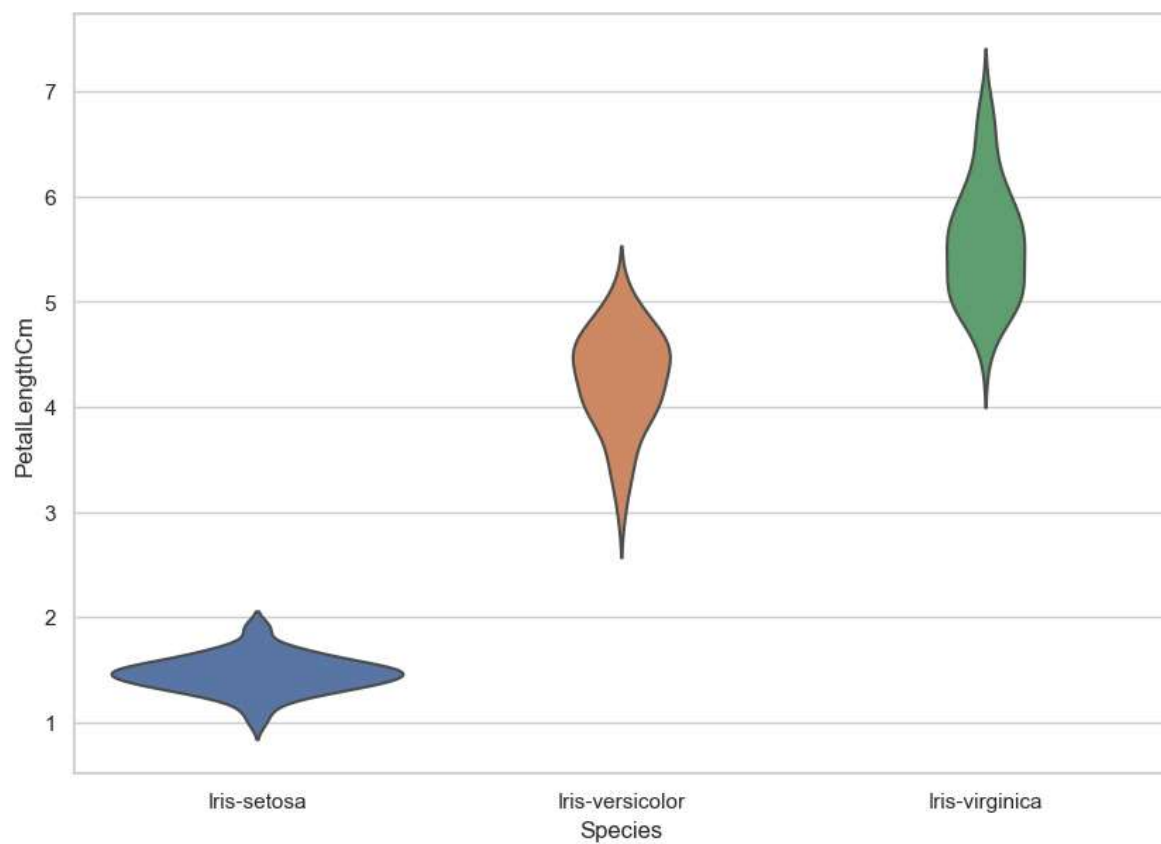
```
In [29]: fig.set_size_inches(10,7)
```

```
In [30]: fig = sns.swarmplot(x="Species", y="PetalLengthCm", data=iris)
```

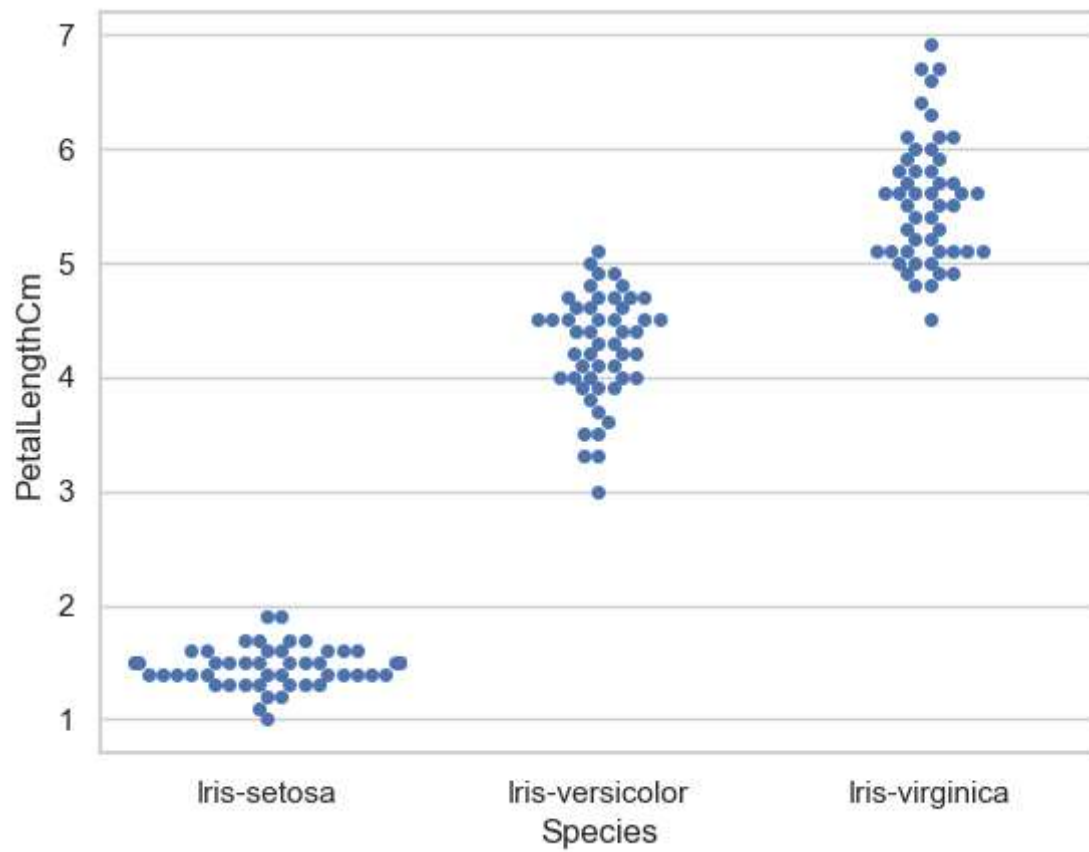


```
In [31]: sns.set(style="whitegrid")
```

```
In [32]: fig=plt.gcf()
fig.set_size_inches(10,7)
ax = sns.violinplot(x="Species", y="PetalLengthCm", data=iris, inner=None)
```



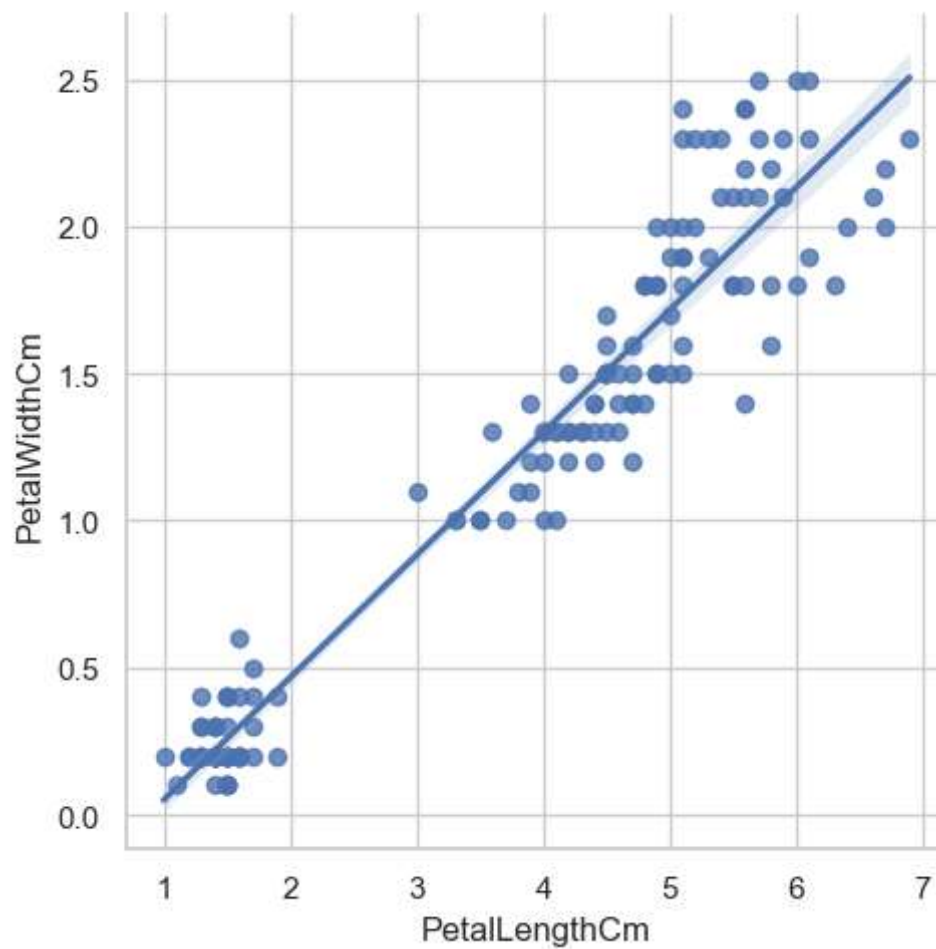
```
In [33]: ax = sns.swarmplot(x="Species", y="PetalLengthCm", data=iris, edgecolor="black")
```



## "17. LM PLOT"



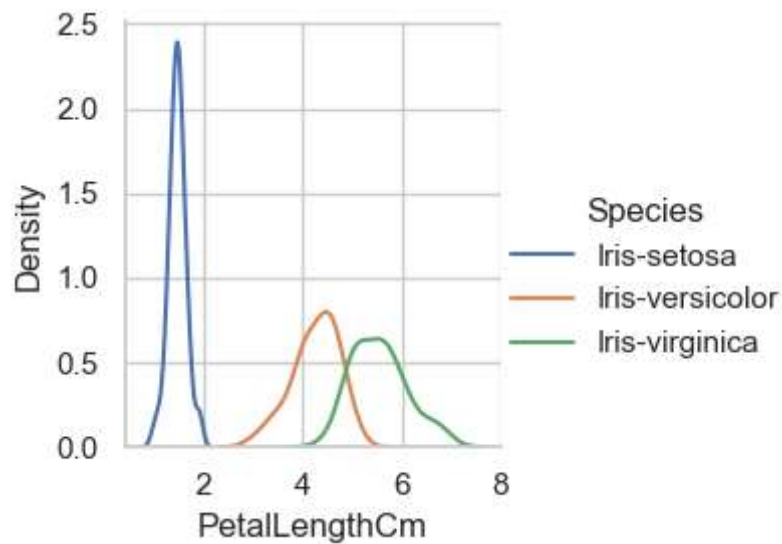
```
In [34]: fig=sns.lmplot(x="PetalLengthCm", y="PetalWidthCm",data=iris)
```



## "18. FacetGrid"

```
In [35]: sns.FacetGrid(iris, hue="Species").map(sns.kdeplot, "PetalLengthCm").add_lege
```

```
Out[35]: <seaborn.axisgrid.FacetGrid at 0x2459e700760>
```



```
In [36]: plt.ion()
```

```
Out[36]: <contextlib.ExitStack at 0x2459ec7dd80>
```

## \*\*\* 22. Factor Plot \*\*\*

```
In [37]: sns.factorplot('Species', 'SepalLengthCm', data=iris)
```

```
-----
AttributeError                                Traceback (most recent call last)
Cell In[37], line 1
----> 1 sns.factorplot('Species', 'SepalLengthCm', data=iris)

AttributeError: module 'seaborn' has no attribute 'factorplot'
```

```
In [ ]: plt.ioff()
plt.show()
```

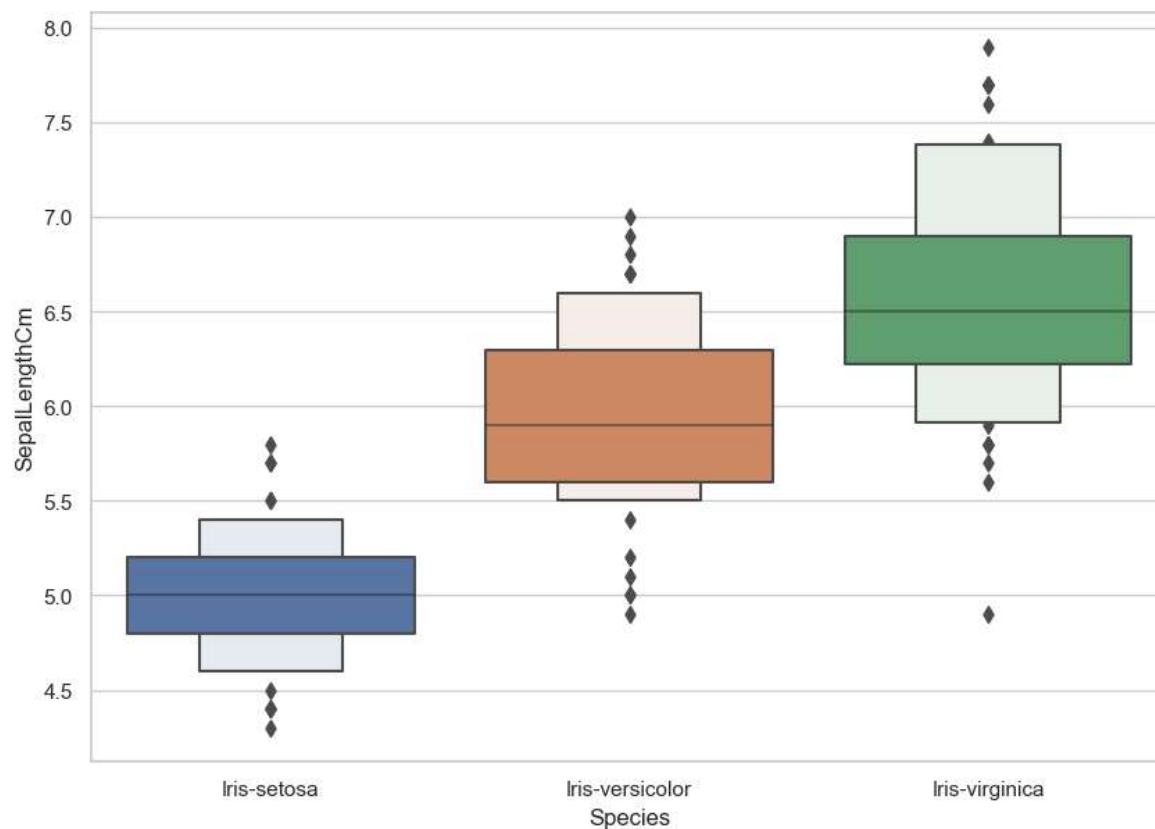
```
In [38]: sns.factorplot('Species', 'SepalLengthCm', data=iris, ax=ax[0][0])
```

```
-----
AttributeError                                Traceback (most recent call last)
Cell In[38], line 1
----> 1 sns.factorplot('Species', 'SepalLengthCm', data=iris, ax=ax[0][0])

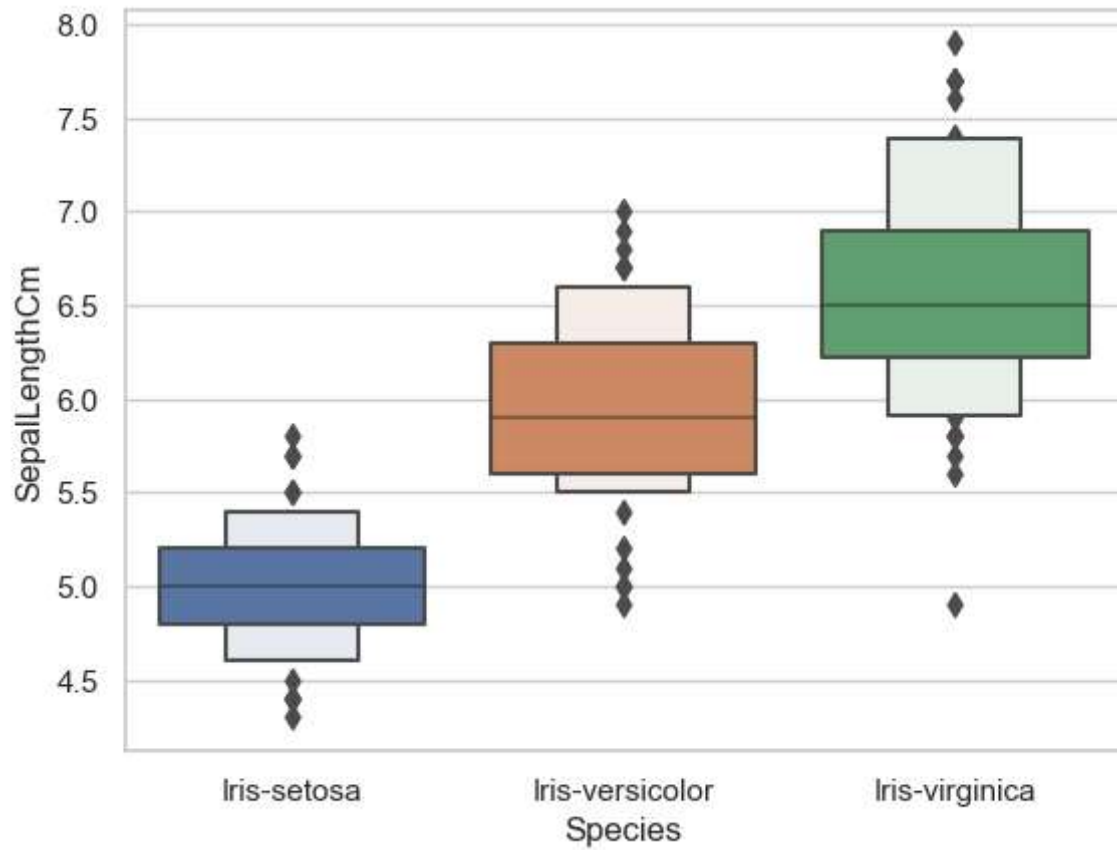
AttributeError: module 'seaborn' has no attribute 'factorplot'
```

## \*\*\* 23. Boxen Plot\*\*\*

```
In [39]: fig=plt.gcf()
fig.set_size_inches(10,7)
fig=sns.boxenplot(x='Species',y='SepalLengthCm',data=iris)
```



```
In [40]: fig=sns.boxenplot(x='Species',y='SepalLengthCm',data=iris)
```



## \*\*\*28.KDE Plot \*\*\*

```
In [41]: # Create a kde plot of sepal_length versus sepal width for setosa species of ;
sub=iris[iris['Species']=='Iris-setosa']
```

In [42]:

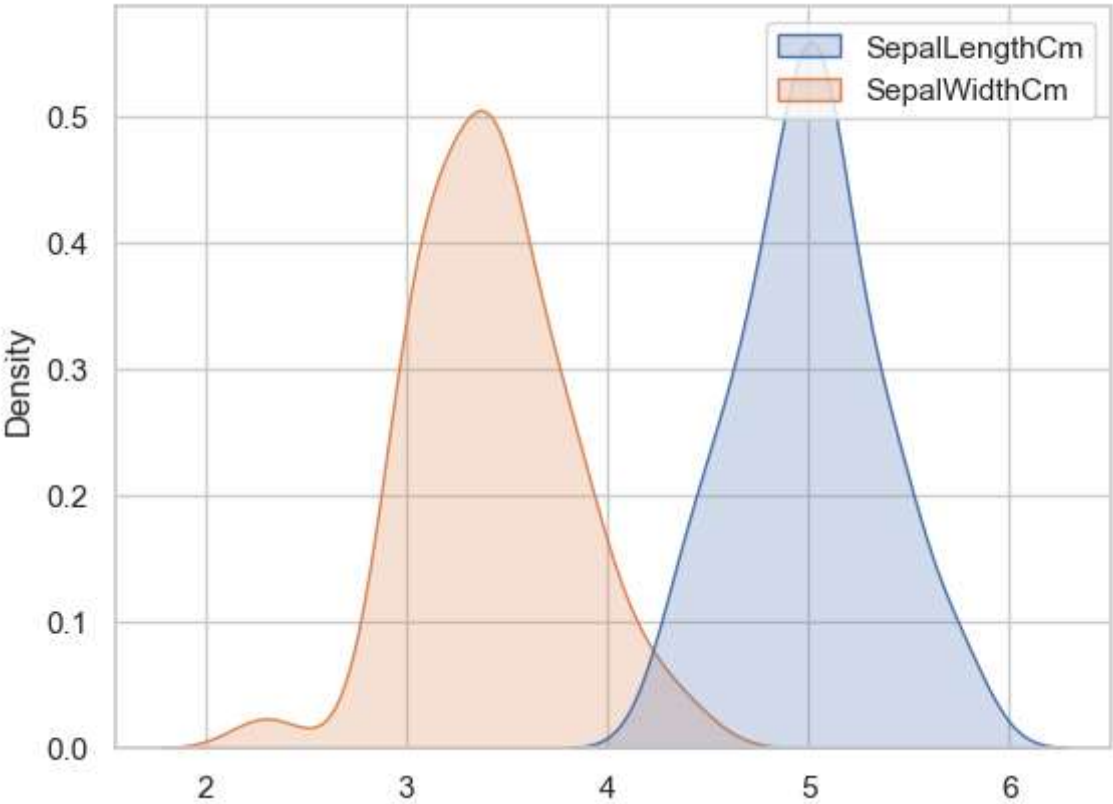
Out[42]:

|    | SepalLengthCm | SepalWidthCm | PetalLengthCm | PetalWidthCm | Species     |
|----|---------------|--------------|---------------|--------------|-------------|
| 0  | 5.1           | 3.5          | 1.4           | 0.2          | Iris-setosa |
| 1  | 4.9           | 3.0          | 1.4           | 0.2          | Iris-setosa |
| 2  | 4.7           | 3.2          | 1.3           | 0.2          | Iris-setosa |
| 3  | 4.6           | 3.1          | 1.5           | 0.2          | Iris-setosa |
| 4  | 5.0           | 3.6          | 1.4           | 0.2          | Iris-setosa |
| 5  | 5.4           | 3.9          | 1.7           | 0.4          | Iris-setosa |
| 6  | 4.6           | 3.4          | 1.4           | 0.3          | Iris-setosa |
| 7  | 5.0           | 3.4          | 1.5           | 0.2          | Iris-setosa |
| 8  | 4.4           | 2.9          | 1.4           | 0.2          | Iris-setosa |
| 9  | 4.9           | 3.1          | 1.5           | 0.1          | Iris-setosa |
| 10 | 5.4           | 3.7          | 1.5           | 0.2          | Iris-setosa |
| 11 | 4.8           | 3.4          | 1.6           | 0.2          | Iris-setosa |
| 12 | 4.8           | 3.0          | 1.4           | 0.1          | Iris-setosa |
| 13 | 4.3           | 3.0          | 1.1           | 0.1          | Iris-setosa |
| 14 | 5.8           | 4.0          | 1.2           | 0.2          | Iris-setosa |
| 15 | 5.7           | 4.4          | 1.5           | 0.4          | Iris-setosa |
| 16 | 5.4           | 3.9          | 1.3           | 0.4          | Iris-setosa |
| 17 | 5.1           | 3.5          | 1.4           | 0.3          | Iris-setosa |
| 18 | 5.7           | 3.8          | 1.7           | 0.3          | Iris-setosa |
| 19 | 5.1           | 3.8          | 1.5           | 0.3          | Iris-setosa |
| 20 | 5.4           | 3.4          | 1.7           | 0.2          | Iris-setosa |
| 21 | 5.1           | 3.7          | 1.5           | 0.4          | Iris-setosa |
| 22 | 4.6           | 3.6          | 1.0           | 0.2          | Iris-setosa |
| 23 | 5.1           | 3.3          | 1.7           | 0.5          | Iris-setosa |
| 24 | 4.8           | 3.4          | 1.9           | 0.2          | Iris-setosa |
| 25 | 5.0           | 3.0          | 1.6           | 0.2          | Iris-setosa |
| 26 | 5.0           | 3.4          | 1.6           | 0.4          | Iris-setosa |
| 27 | 5.2           | 3.5          | 1.5           | 0.2          | Iris-setosa |
| 28 | 5.2           | 3.4          | 1.4           | 0.2          | Iris-setosa |
| 29 | 4.7           | 3.2          | 1.6           | 0.2          | Iris-setosa |
| 30 | 4.8           | 3.1          | 1.6           | 0.2          | Iris-setosa |
| 31 | 5.4           | 3.4          | 1.5           | 0.4          | Iris-setosa |
| 32 | 5.2           | 4.1          | 1.5           | 0.1          | Iris-setosa |
| 33 | 5.5           | 4.2          | 1.4           | 0.2          | Iris-setosa |
| 34 | 4.9           | 3.1          | 1.5           | 0.1          | Iris-setosa |
| 35 | 5.0           | 3.2          | 1.2           | 0.2          | Iris-setosa |

|    | SepalLengthCm | SepalWidthCm | PetalLengthCm | PetalWidthCm | Species     |
|----|---------------|--------------|---------------|--------------|-------------|
| 36 | 5.5           | 3.5          | 1.3           | 0.2          | Iris-setosa |
| 37 | 4.9           | 3.1          | 1.5           | 0.1          | Iris-setosa |
| 38 | 4.4           | 3.0          | 1.3           | 0.2          | Iris-setosa |
| 39 | 5.1           | 3.4          | 1.5           | 0.2          | Iris-setosa |
| 40 | 5.0           | 3.5          | 1.3           | 0.3          | Iris-setosa |
| 41 | 4.5           | 2.3          | 1.3           | 0.3          | Iris-setosa |
| 42 | 4.4           | 3.2          | 1.3           | 0.2          | Iris-setosa |
| 43 | 5.0           | 3.5          | 1.6           | 0.6          | Iris-setosa |
| 44 | 5.1           | 3.8          | 1.9           | 0.4          | Iris-setosa |
| 45 | 4.8           | 3.0          | 1.4           | 0.3          | Iris-setosa |
| 46 | 5.1           | 3.8          | 1.6           | 0.2          | Iris-setosa |
| 47 | 4.6           | 3.2          | 1.4           | 0.2          | Iris-setosa |
| 48 | 5.3           | 3.7          | 1.5           | 0.2          | Iris-setosa |
| 49 | 5.0           | 3.3          | 1.4           | 0.2          | Iris-setosa |

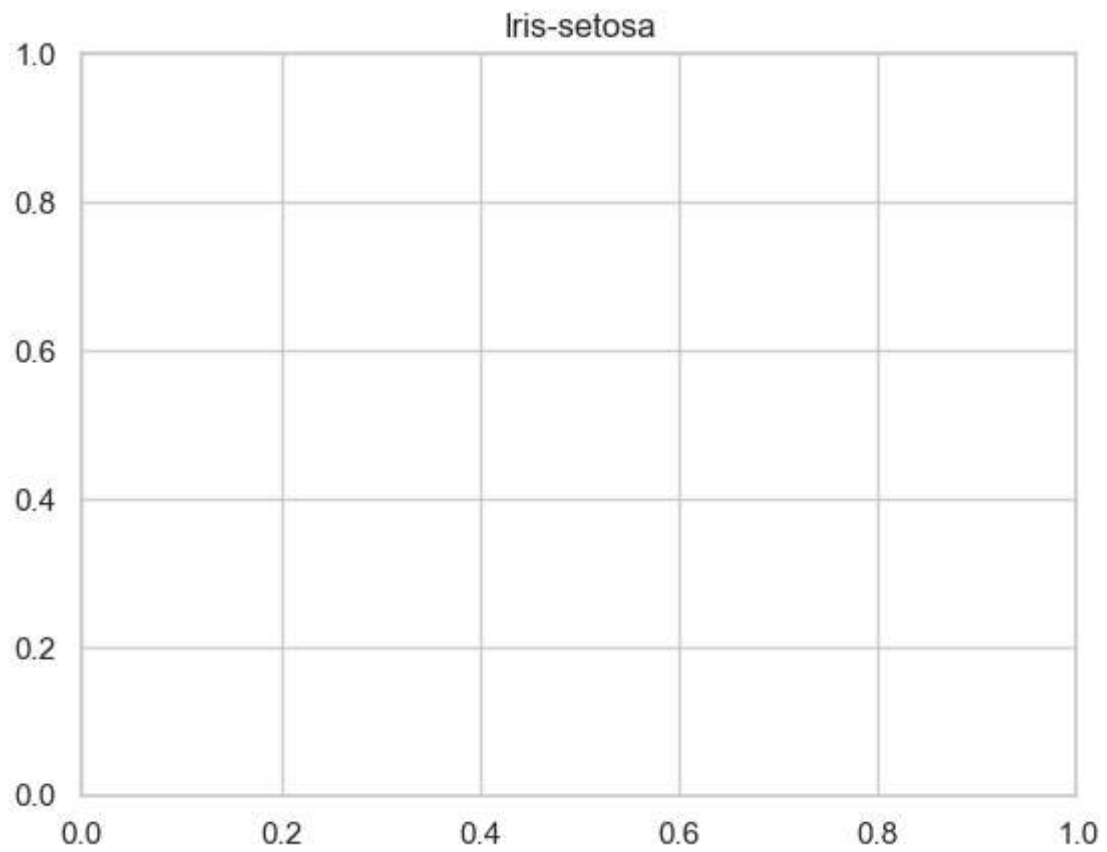
```
In [43]: sns.kdeplot(data=sub[['SepalLengthCm','SepalWidthCm']], shade=True, shade_lowest=False)
```

```
Out[43]: <Axes: ylabel='Density'>
```



```
In [44]: plt.title('Iris-setosa')
```

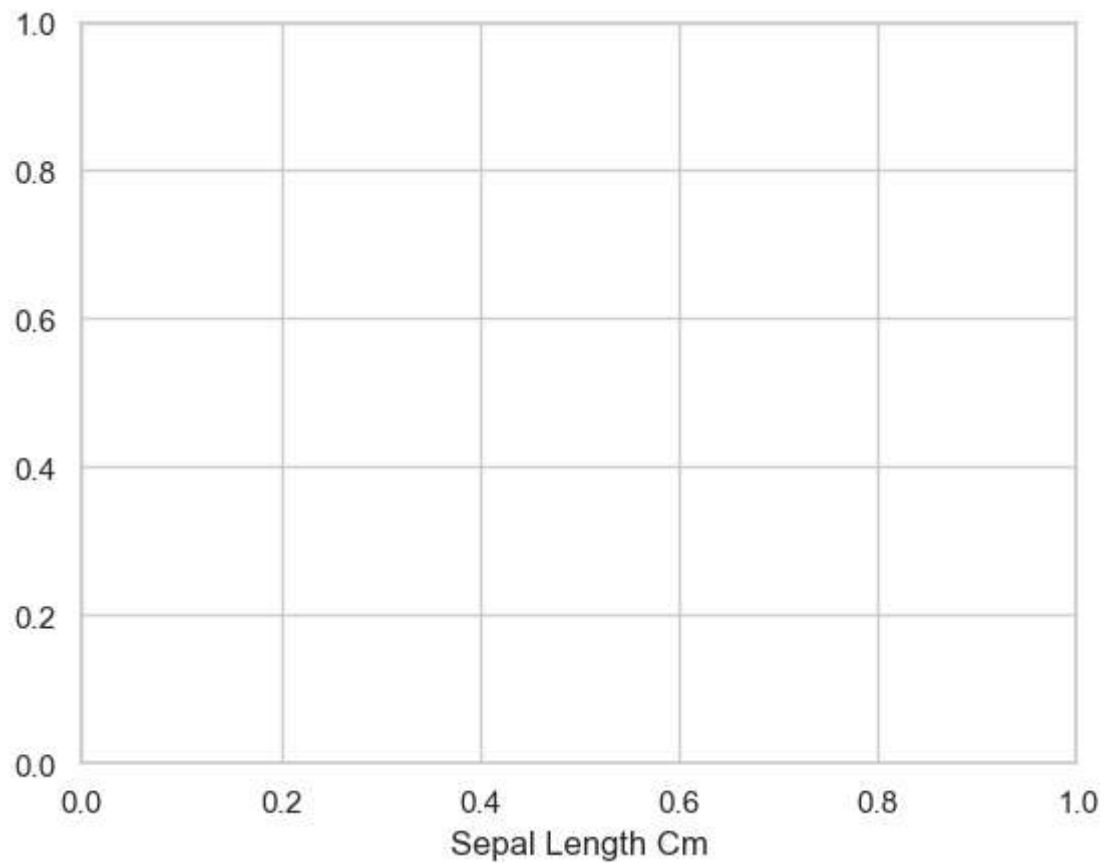
```
Out[44]: Text(0.5, 1.0, 'Iris-setosa')
```





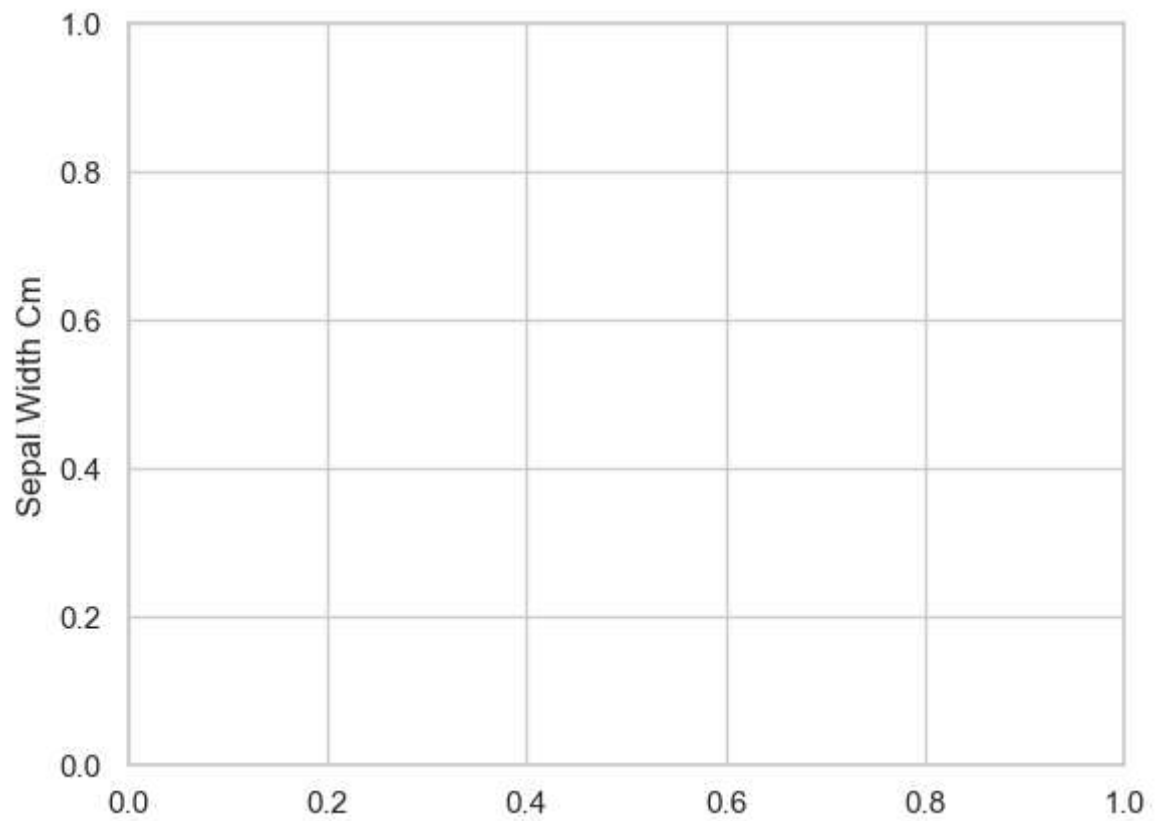
```
In [45]: plt.xlabel('Sepal Length Cm')
```

```
Out[45]: Text(0.5, 0, 'Sepal Length Cm')
```



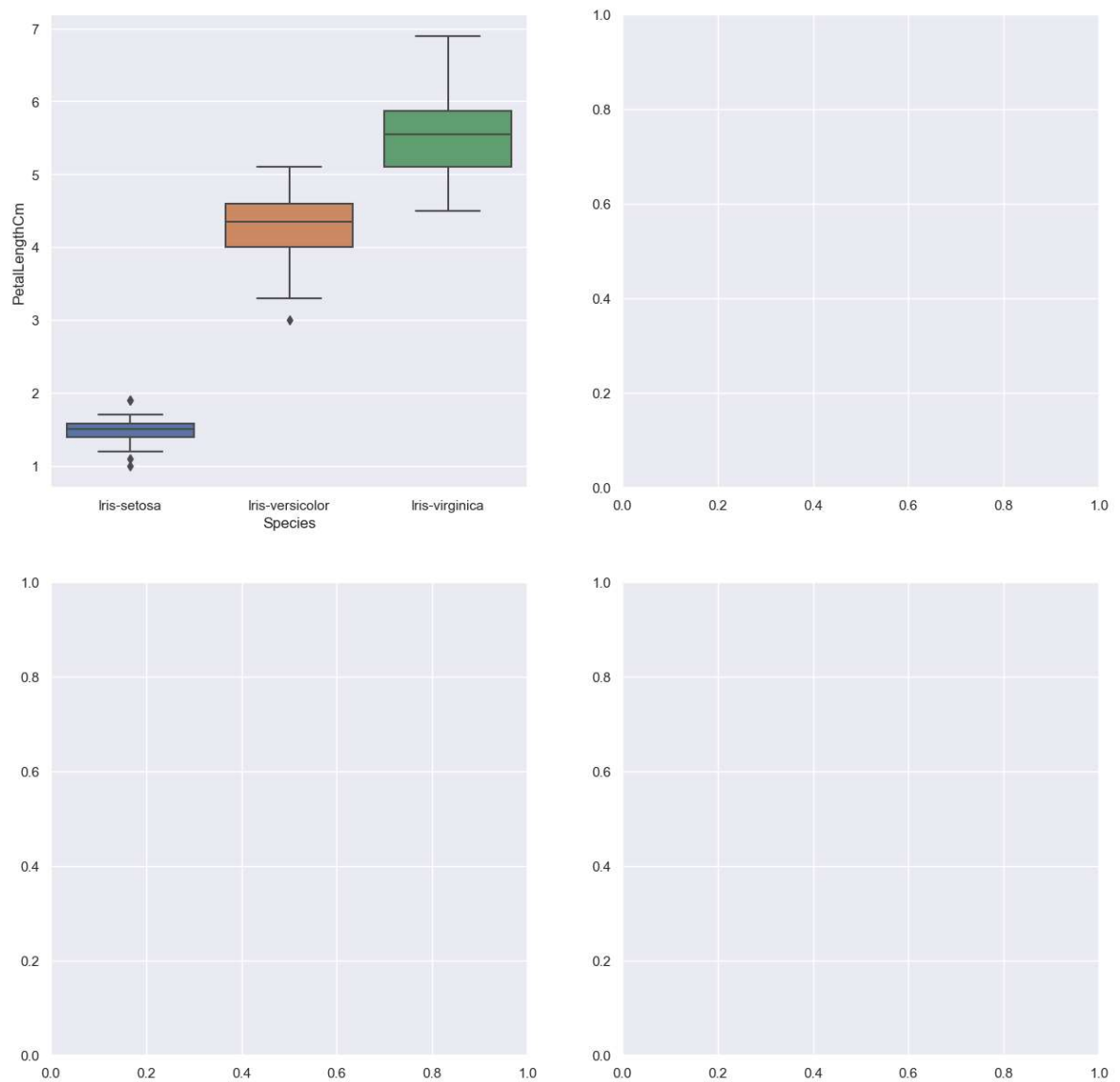
```
In [46]: plt.ylabel('Sepal Width Cm')
```

```
Out[46]: Text(0, 0.5, 'Sepal Width Cm')
```

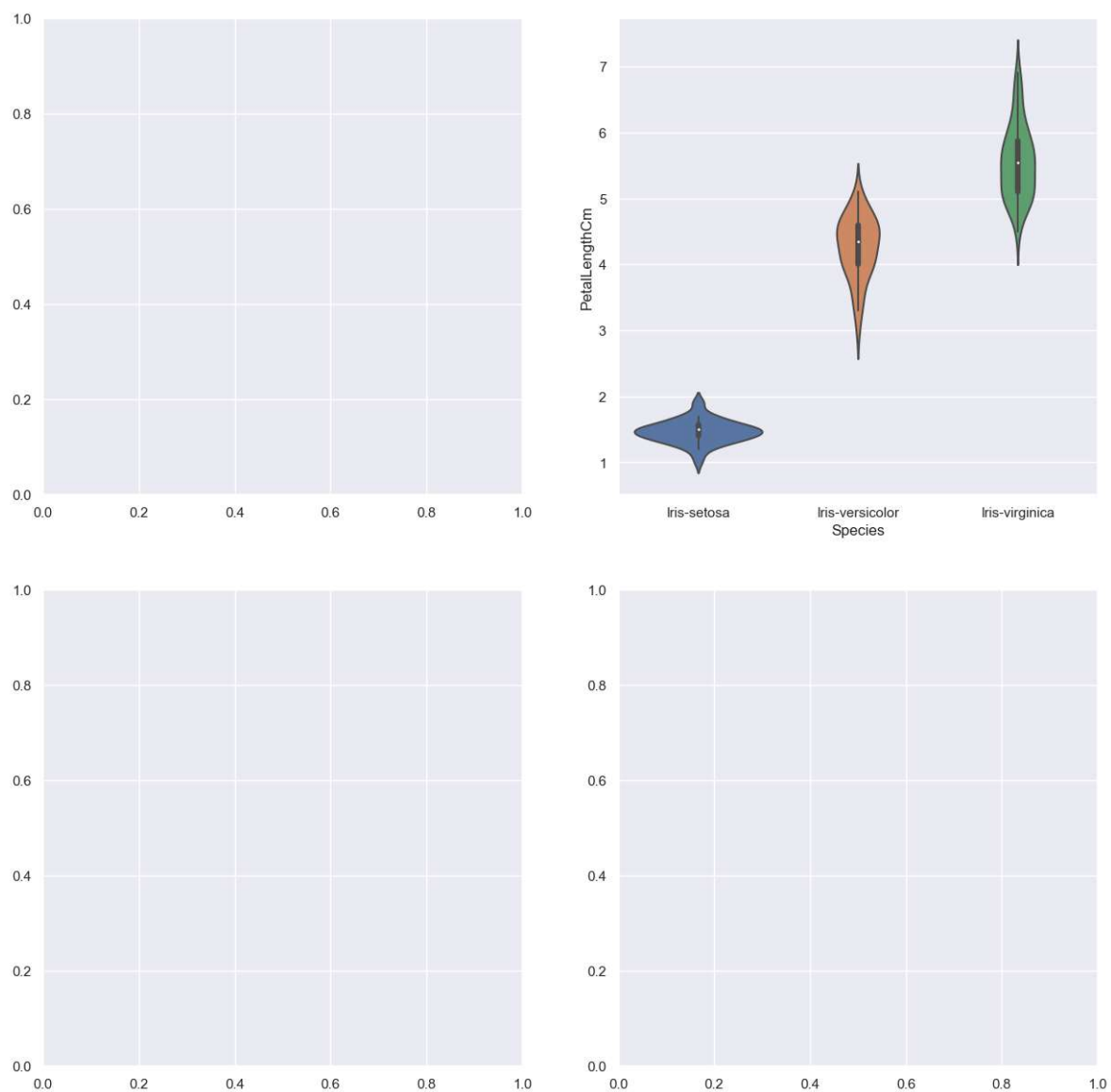


**"30.Dashboard"**

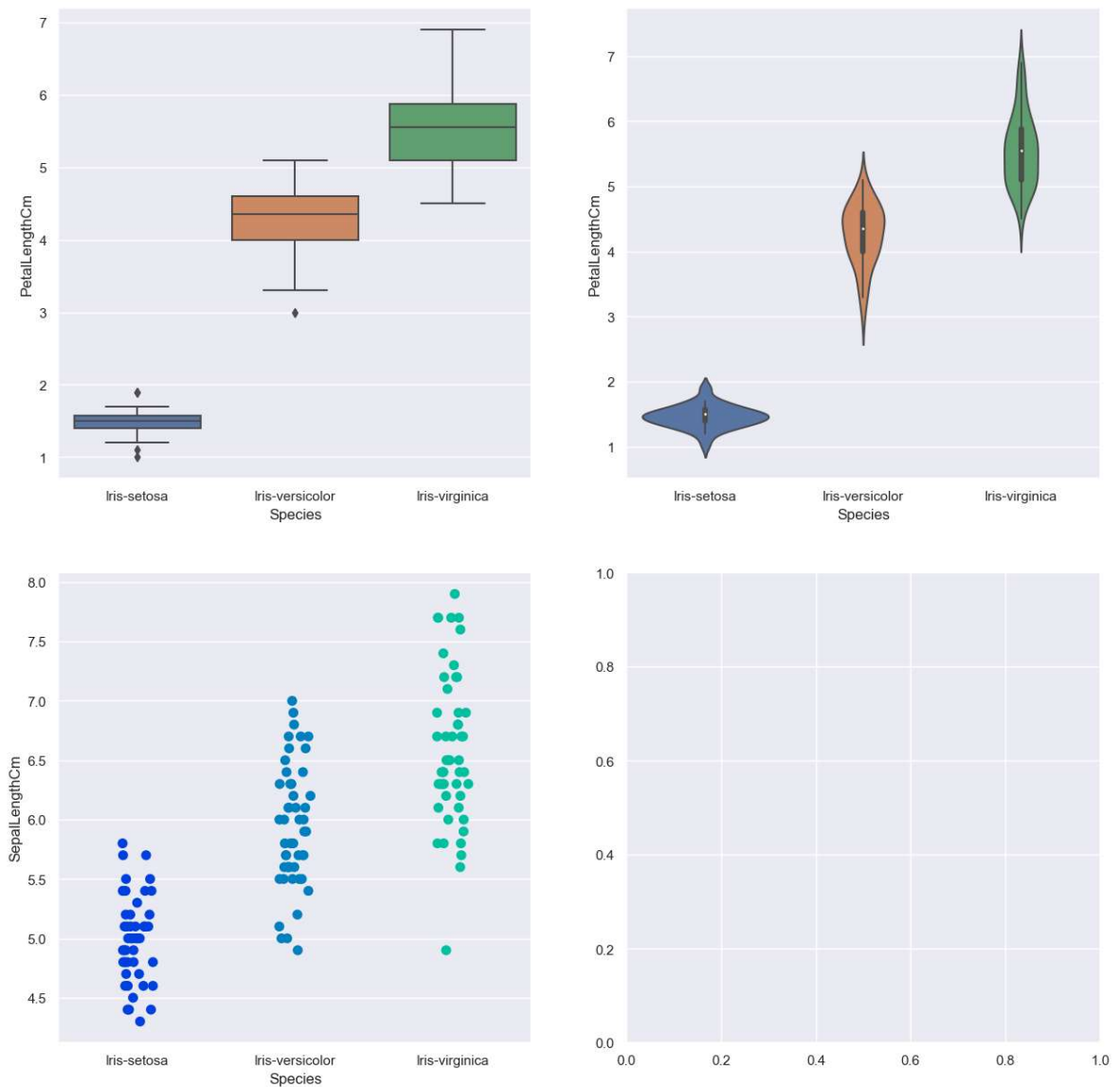
```
In [53]: sns.set_style('darkgrid')
f,axes=plt.subplots(2,2,figsize=(15,15))
k1=sns.boxplot(x="Species", y="PetalLengthCm", data=iris,ax=axes[0,0])
```



```
In [55]: f,axes=plt.subplots(2,2,figsize=(15,15))
k2=sns.violinplot(x='Species',y='PetalLengthCm',data=iris,ax=axes[0,1])
```



```
In [57]: f,axes=plt.subplots(2,2,figsize=(15,15))
k1=sns.boxplot(x="Species", y="PetalLengthCm", data=iris,ax=axes[0,0])
k2=sns.violinplot(x='Species',y='PetalLengthCm',data=iris,ax=axes[0,1])
k3=sns.stripplot(x='Species',y='SepalLengthCm',data=iris,jitter=True,edgecolor
```



```
In [58]: # In the dashboard we have shown how to create multiple plots to foam a dashbo
```

```
In [59]: # "***31.Stacked Histogram**"
```

```
In [60]: iris['Species'] = iris['Species'].astype('category')
```

```
In [61]: iris.info()
```

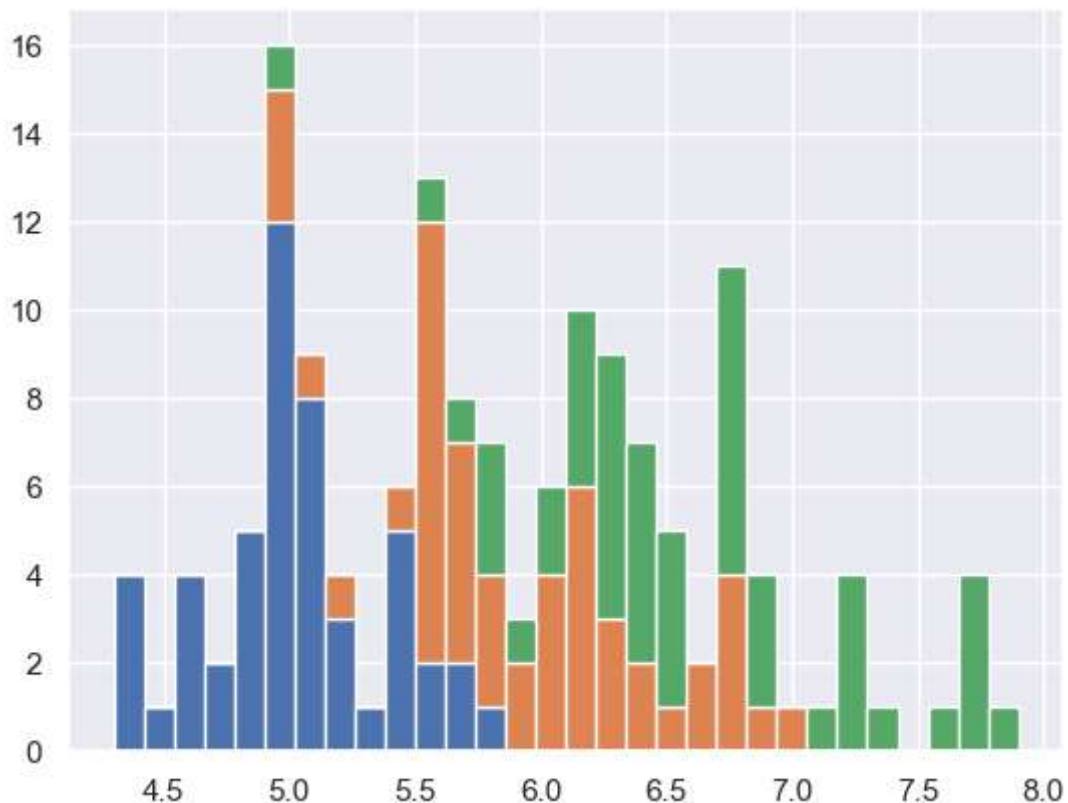
```
<class 'pandas.core.frame.DataFrame'>  
RangeIndex: 150 entries, 0 to 149  
Data columns (total 5 columns):  
#   Column          Non-Null Count  Dtype    
---  ---            -  
0   SepalLengthCm   150 non-null   float64  
1   SepalWidthCm    150 non-null   float64  
2   PetalLengthCm   150 non-null   float64  
3   PetalWidthCm    150 non-null   float64  
4   Species         150 non-null   category  
dtypes: category(1), float64(4)  
memory usage: 5.1 KB
```

```
In [62]: list1=list()
```

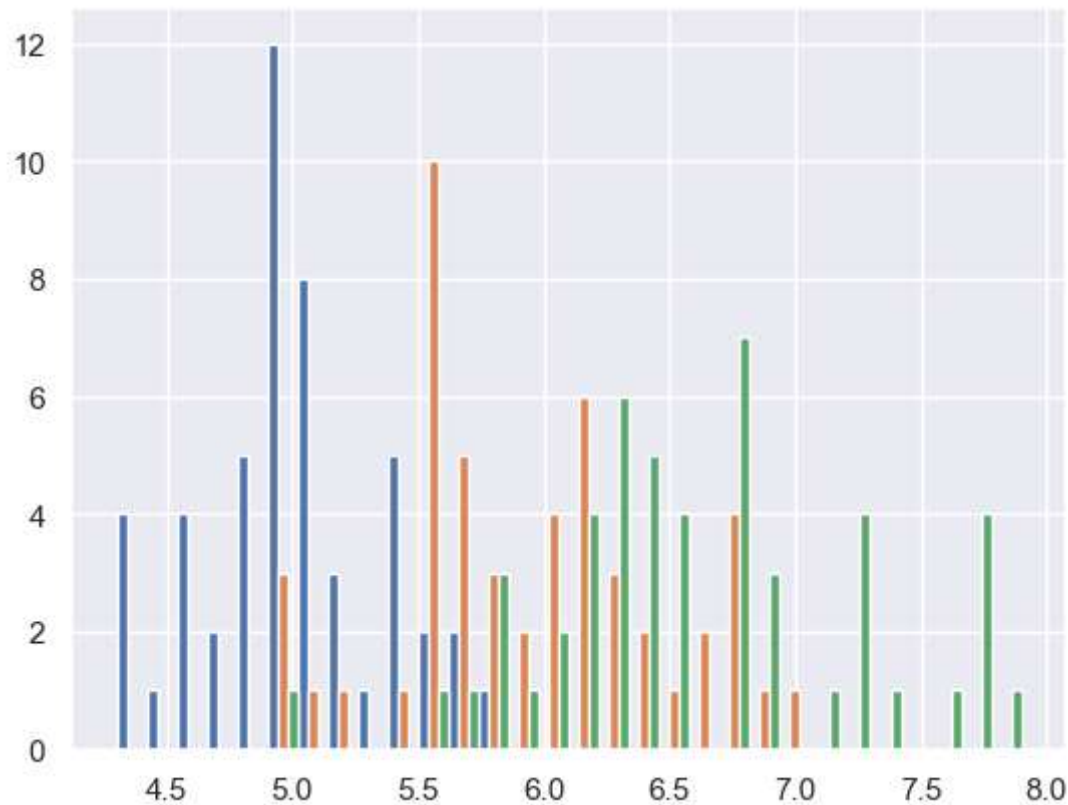
```
In [63]: mylabels=list()
```

```
In [64]: for gen in iris.Species.cat.categories:  
        list1.append(iris[iris.Species==gen].SepalLengthCm)  
        mylabels.append(gen)
```

```
In [65]: h=plt.hist(list1,bins=30,stacked=True,rwidth=1,label=mylabels)
```



```
In [66]: h1=plt.hist(list1,bins=30,stacked=False,rwidth=1,label=mylabels)
```



```
In [67]: # With Stacked Histogram we can see the distribution of Sepal Length of Different Species
```

```
In [70]: # **32.Area Plot:**  
#       Area Plot gives us a visual representation of Various dimensions of Iris dataset
```

```
In [71]: iris['SepalLengthCm'] = iris['SepalLengthCm'].astype('category')
```

```
In [72]: iris.head()
```

Out[72]:

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

```
In [73]: iris.plot.area(y='SepallLengthCm',alpha=0.4,figsize=(12, 6))
```

```
-----
TypeError                                Traceback (most recent call last)
Cell In[73], line 1
----> 1 iris.plot.area(y='SepallLengthCm',alpha=0.4,figsize=(12, 6))

File ~\anaconda3\lib\site-packages\pandas\plotting\_core.py:1557, in PlotAcc
essor.area(self, x, y, **kwargs)
    1486 def area(self, x=None, y=None, **kwargs) -> PlotAccessor:
    1487     """
    1488     Draw a stacked area plot.
    1489     (...)
    1555     >>> ax = df.plot.area(x='day')
    1556     """
-> 1557     return self(kind="area", x=x, y=y, **kwargs)

File ~\anaconda3\lib\site-packages\pandas\plotting\_core.py:1000, in PlotAcc
essor.__call__(self, *args, **kwargs)
    997         label_name = label_kw or data.columns
    998         data.columns = label_name
-> 1000 return plot_backend.plot(data, kind=kind, **kwargs)

File ~\anaconda3\lib\site-packages\pandas\plotting\_matplotlib\__init__.py:7
1, in plot(data, kind, **kwargs)
    69         kwargs["ax"] = getattr(ax, "left_ax", ax)
    70 plot_obj = PLOT_CLASSES[kind](data, **kwargs)
----> 71 plot_obj.generate()
    72 plot_obj.draw()
    73 return plot_obj.result

File ~\anaconda3\lib\site-packages\pandas\plotting\_matplotlib\core.py:450,
in MPLPlot.generate(self)
    448 def generate(self) -> None:
    449     self._args_adjust()
--> 450     self._compute_plot_data()
    451     self._setup_subplots()
    452     self._make_plot()

File ~\anaconda3\lib\site-packages\pandas\plotting\_matplotlib\core.py:635,
in MPLPlot._compute_plot_data(self)
    633 # no non-numeric frames or series allowed
    634 if is_empty:
--> 635     raise TypeError("no numeric data to plot")
    637 self.data = numeric_data.apply(self._convert_to_ndarray)

TypeError: no numeric data to plot
```



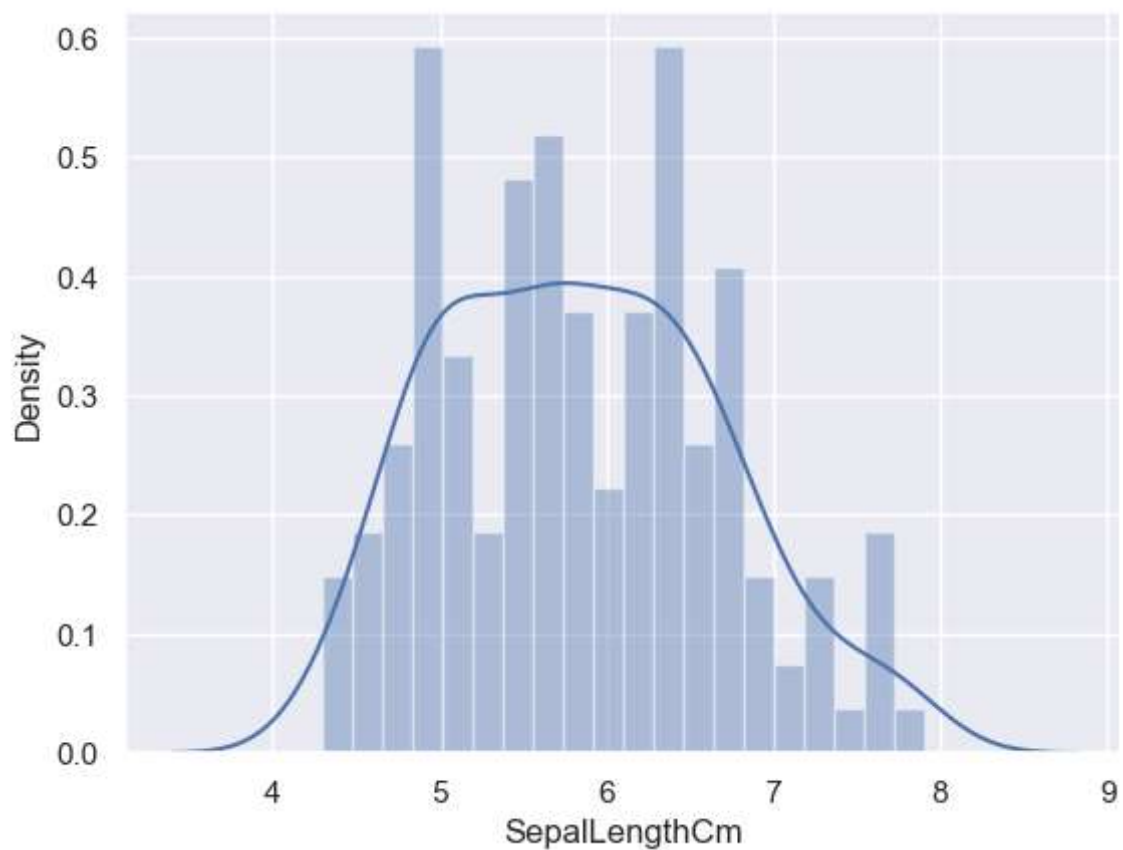
```
In [74]: iris.plot.area(y=['SepalLengthCm', 'SepalWidthCm', 'PetalLengthCm', 'PetalWidthCm'])
```

```
Out[74]: <Axes: >
```



```
In [76]: # """33.Distplot:**\n",  
#         "It helps us to look at the distribution of a single variable.Kde shows
```

```
In [77]: sns.distplot(iris['SepalLengthCm'],kde=True,bins=20);
```



In [ ]: