

A22126551001

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```
[79] import numpy as np
import pandas as pd
import seaborn as sns
import matplotlib.pyplot as plt
df = pd.read_csv('/content/Iris.csv')
import warnings
warnings.filterwarnings("ignore")
```

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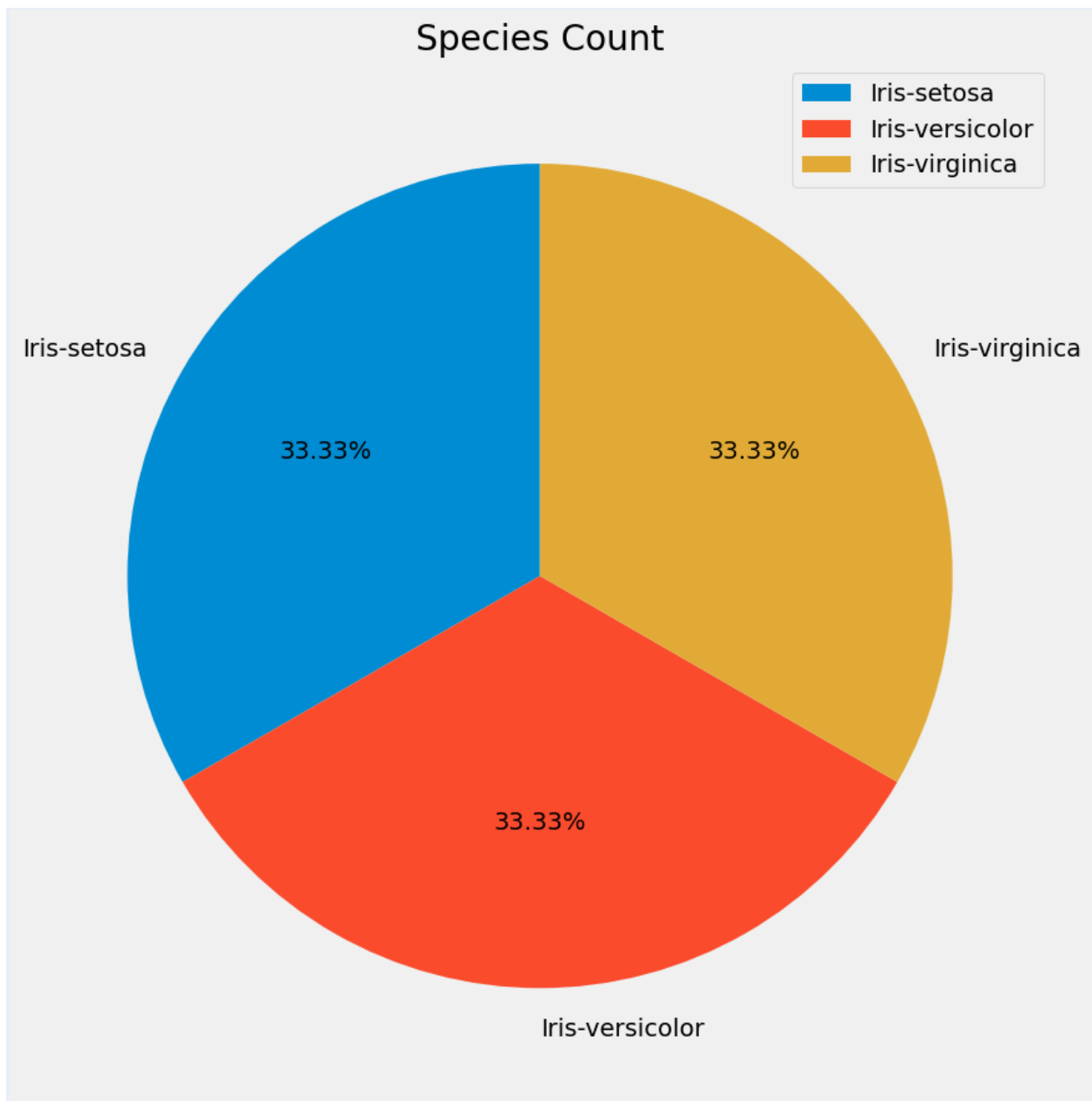


```
plt.style.use("fivethirtyeight")
plt.figure(figsize=(10,8))
sns.pairplot(df,hue="Species",height=2.5,)
plt.show()
plt.tight_layout()
```



```
species=df["Species"].value_counts()
label=df["Species"].unique()
```

```
plt.style.use("fivethirtyeight")
plt.figure(figsize=(9,9))
plt.pie(species,labels=label,autopct='%1.2f%%',startangle=90)
plt.title("Species Count")
plt.legend()
plt.tight_layout()
```



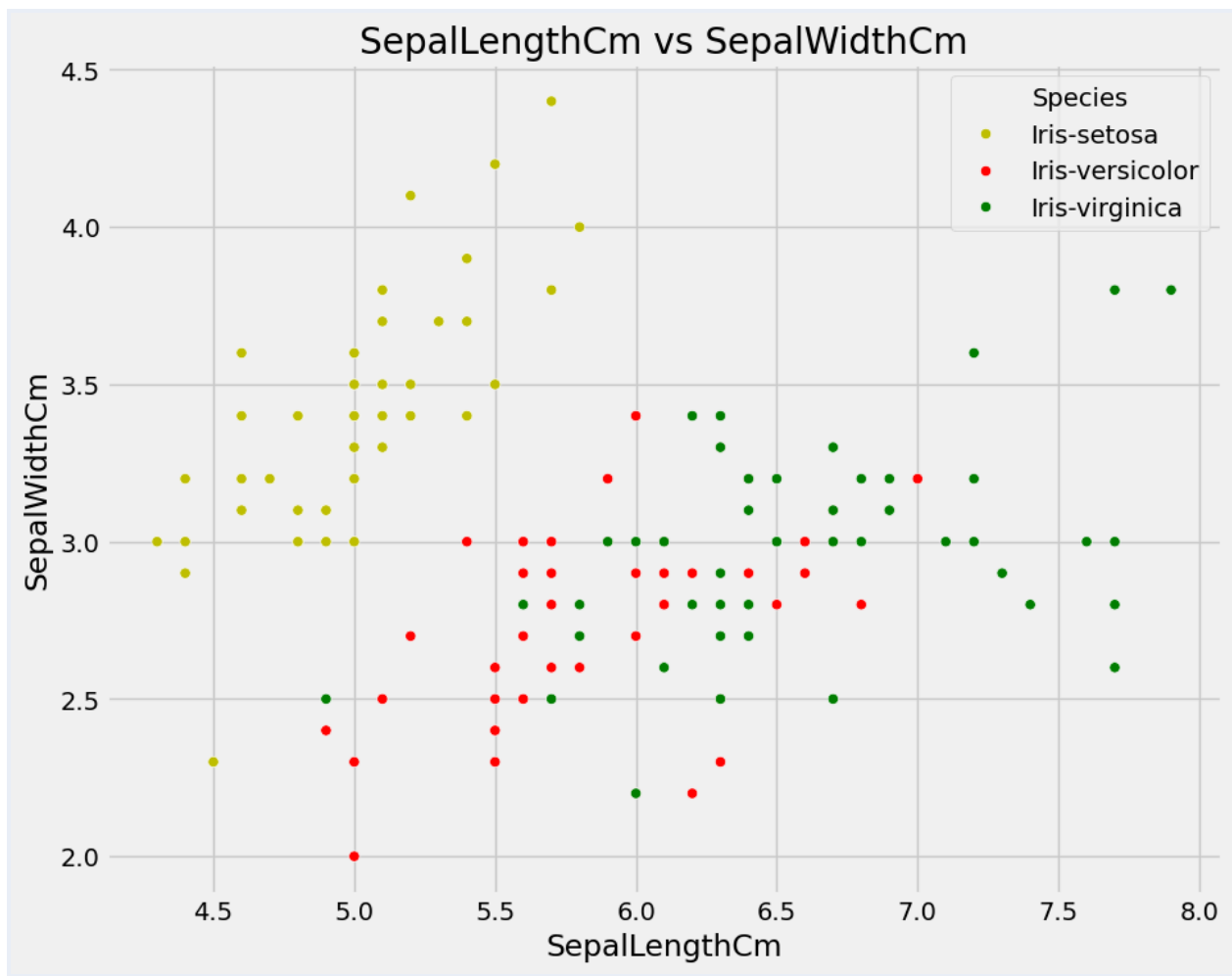
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```
plt.style.use("fivethirtyeight")
plt.figure(figsize=(10,8))
sns.scatterplot(
    x='SepalLengthCm',
    y='SepalWidthCm',
    hue='Species',
    data=df,
    palette={'Iris-setosa': 'y', 'Iris-versicolor': 'r', 'Iris-virginica': 'g'}
)
plt.title('SepalLengthCm vs SepalWidthCm')
```

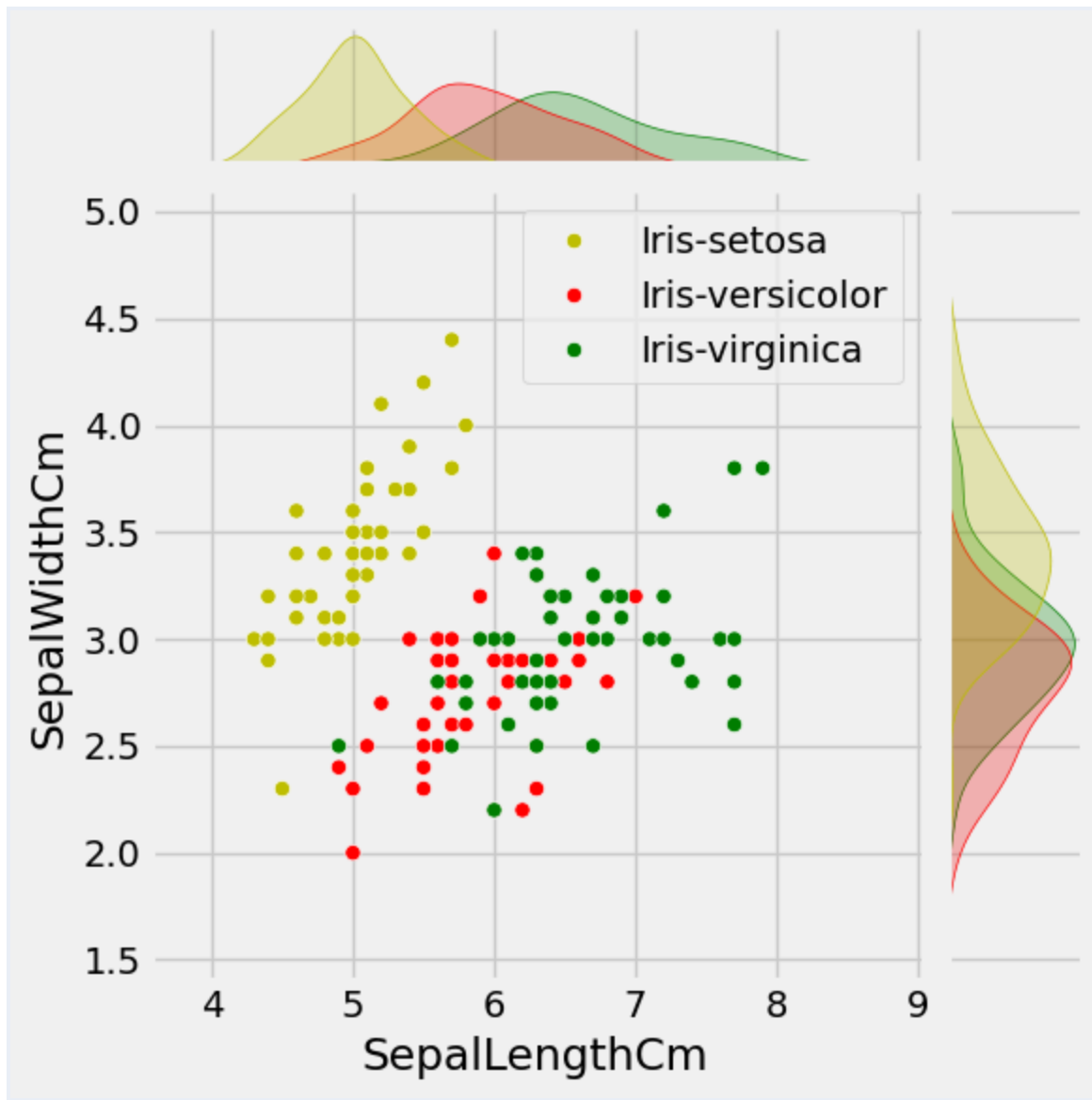


Text(0.5, 1.0, 'SepalLengthCm vs SepalWidthCm')

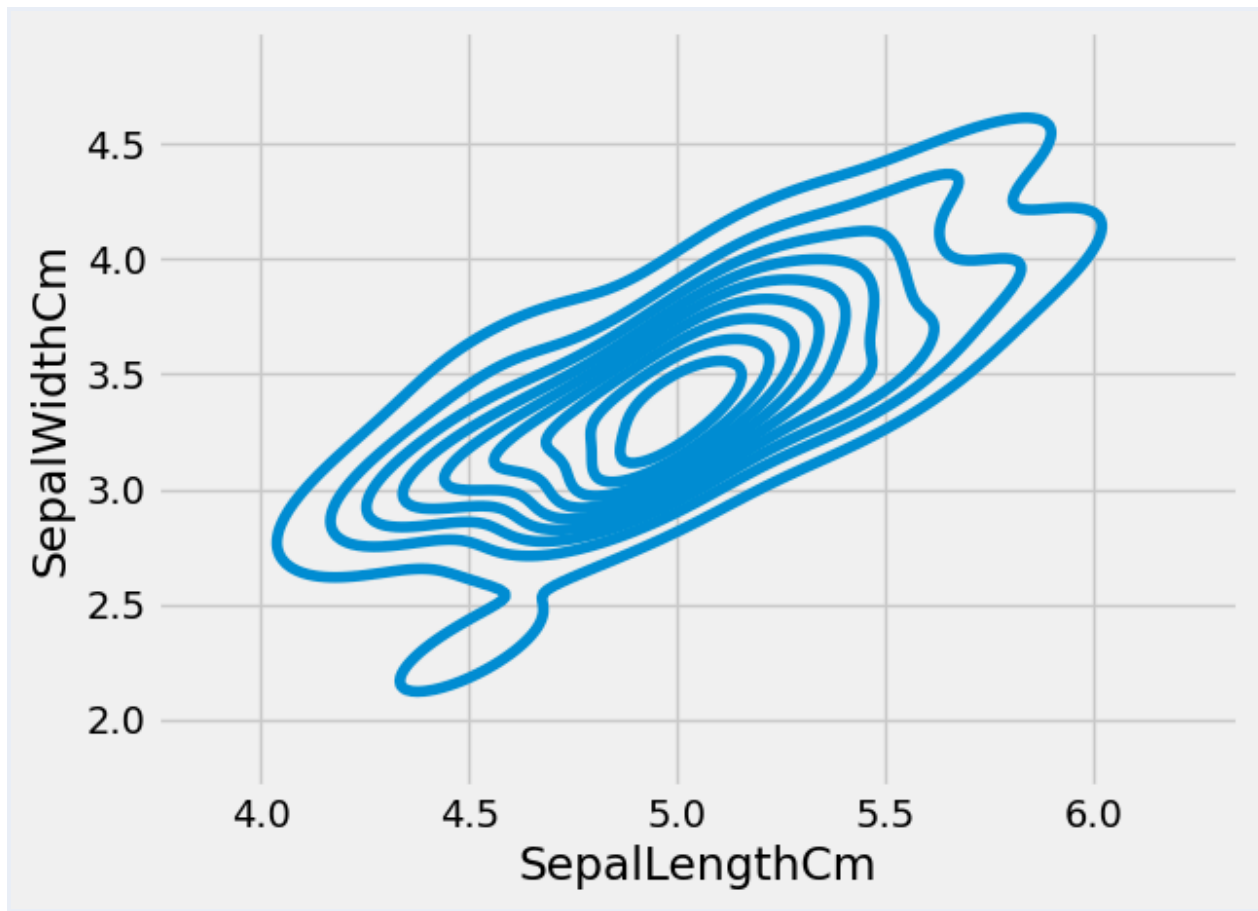


```
[92] plt.style.use("fivethirtyeight")
sns.jointplot(x='SepalLengthCm',y='SepalWidthCm',data=df,kind='scatter',hue='Species',
palette={'Iris-setosa': 'y', 'Iris-versicolor': 'r', 'Iris-virginica': 'g'})
plt.legend()
```

<matplotlib.legend.Legend at 0x7e21041aff70>



```
▶ setosa=df[df['Species']=="Iris-setosa"]  
sns.kdeplot(x='SepalLengthCm',y='SepalWidthCm',data=setosa,)  
color = sns.color_palette()[0]
```



```
sns.kdeplot(x='SepalLengthCm',y='SepalWidthCm',data=setosa,fill=True,color='black')  
plt.title("KDE plot for SepalLength vs SepalWidth")  
plt.show()
```

