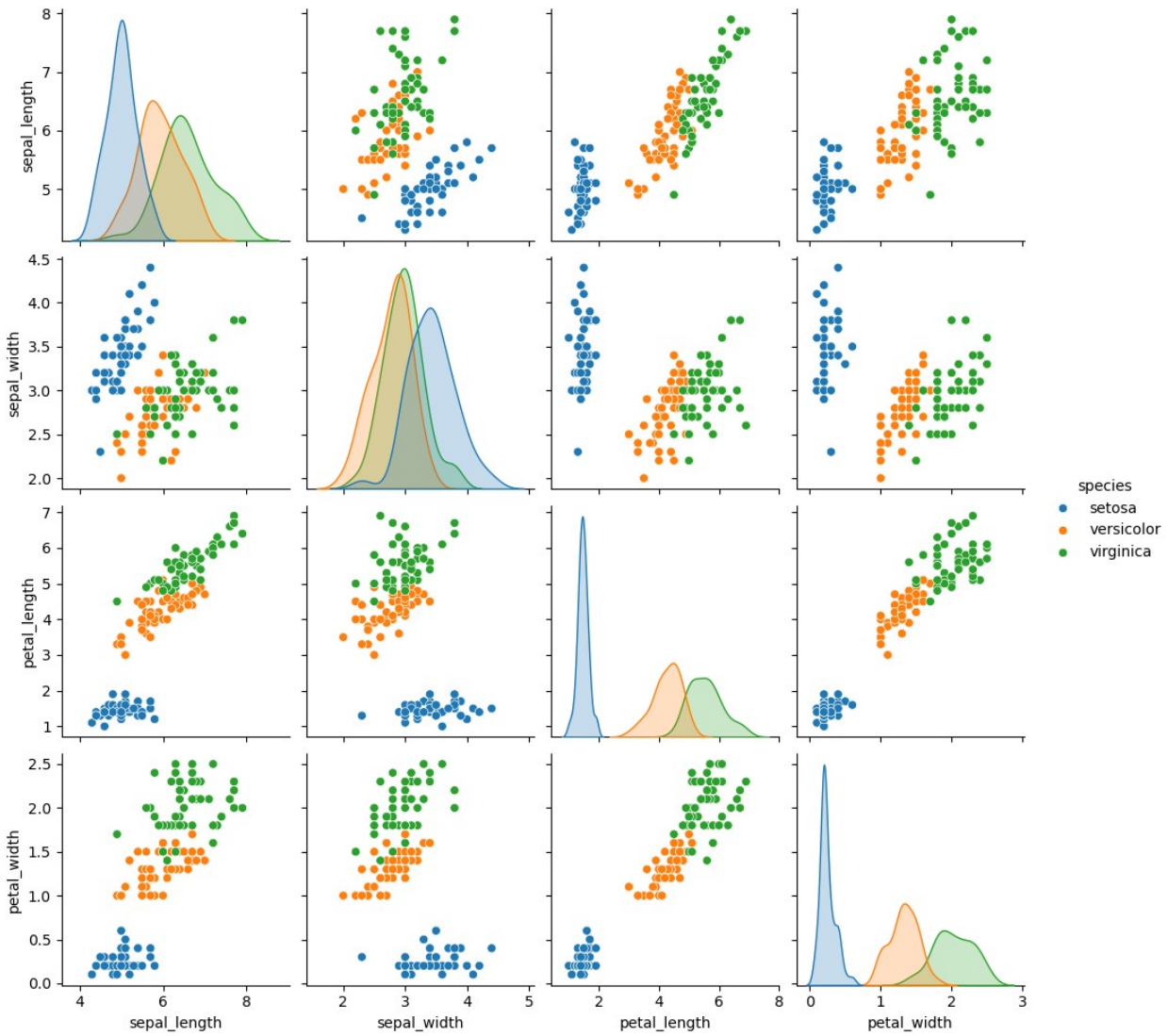
```
import seaborn as sns
import matplotlib.pyplot as plt
# Load the Iris dataset
iris=sns.load_dataset('iris')
print (iris)
```

```
     sepal_length  sepal_width  petal_length  petal_width    species
0             5.1          3.5           1.4          0.2     setosa
1             4.9          3.0           1.4          0.2     setosa
2             4.7          3.2           1.3          0.2     setosa
3             4.6          3.1           1.5          0.2     setosa
4             5.0          3.6           1.4          0.2     setosa
..            ...          ...           ...          ...        ...
145           6.7          3.0           5.2          2.3  virginica
146           6.3          2.5           5.0          1.9  virginica
147           6.5          3.0           5.2          2.0  virginica
148           6.2          3.4           5.4          2.3  virginica
149           5.9          3.0           5.1          1.8  virginica

[150 rows x 5 columns]
```

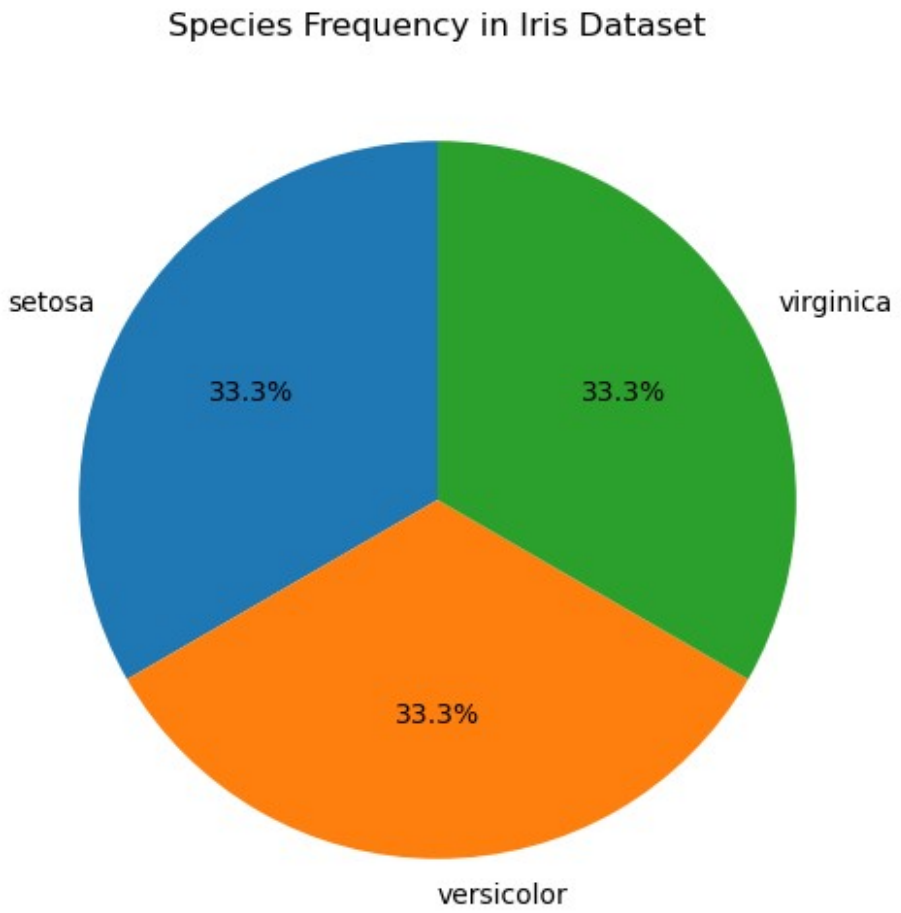
General Statistics Plot (Matplotlib or Seaborn):

```
sns.pairplot(iris, hue='species', height=2.5)
plt.show()
```



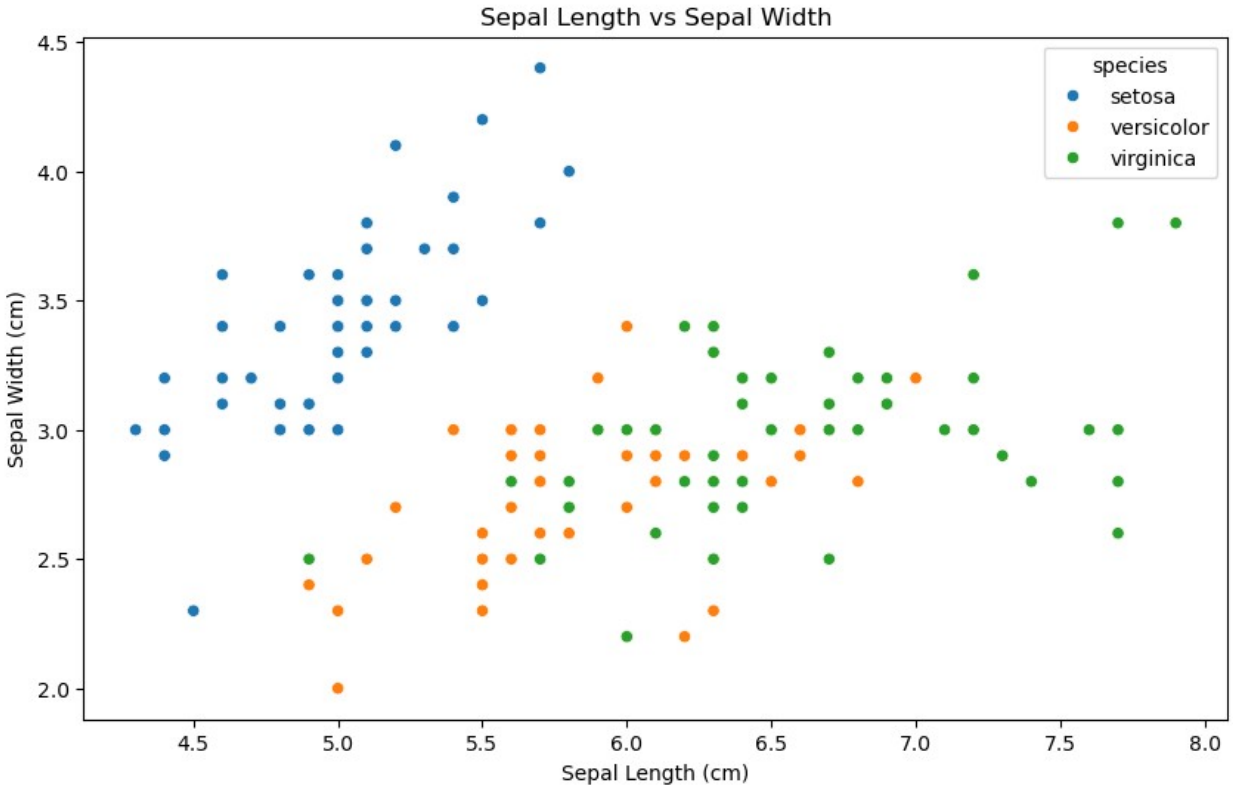
Pie Plot for Species Frequency:

```
import seaborn as sns
import matplotlib.pyplot as plt
iris = sns.load_dataset('iris')
species_counts = iris['species'].value_counts()
plt.figure(figsize=(6, 6))
plt.pie(species_counts, labels=species_counts.index, autopct="%1.1f%
%", startangle=90)
plt.title('Species Frequency in Iris Dataset')
plt.show()
```



Relationship Between Sepal Length and Sepal Width:

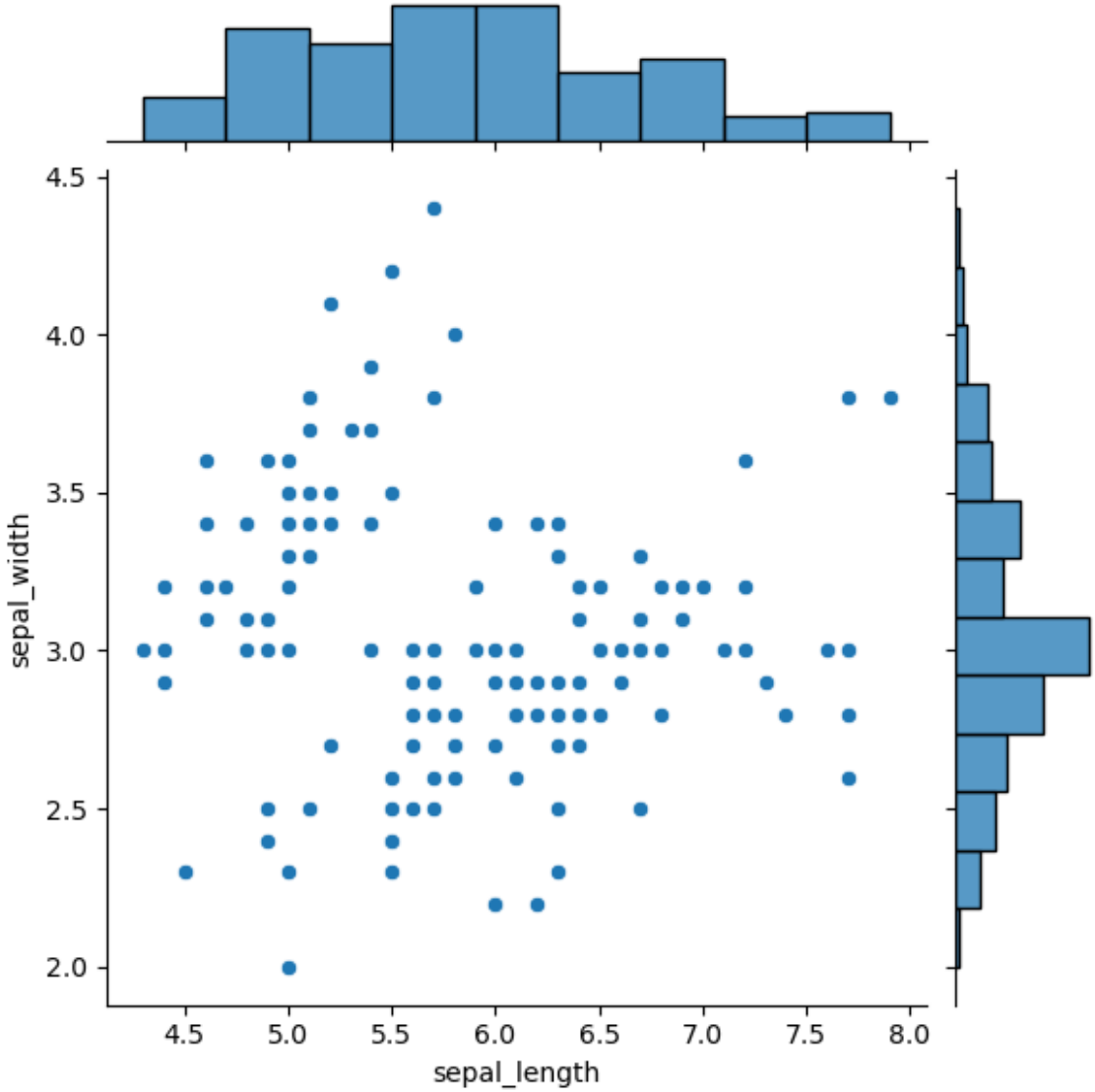
```
import seaborn as sns
import matplotlib.pyplot as plt
# Load dataset
iris = sns.load_dataset('iris')
# Set figure size
plt.figure(figsize=(10, 6))
# Create scatter plot
sns.scatterplot(x='sepal_length', y='sepal_width', hue='species',
data=iris)
# Set plot title and labels
plt.title('Sepal Length vs Sepal Width')
plt.xlabel('Sepal Length (cm)')
plt.ylabel('Sepal Width (cm)')
# Display the plot
plt.show()
```



Distribution of Sepal and Petal Features:

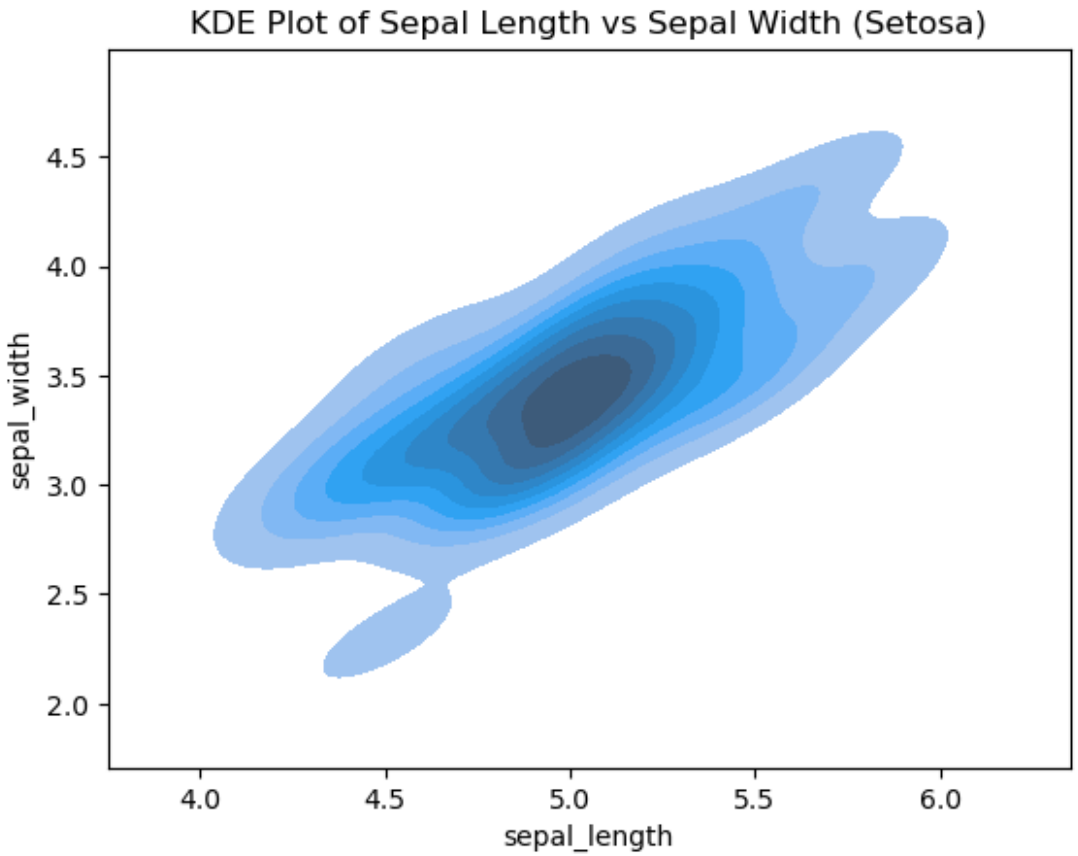
```
import seaborn as sns
import matplotlib.pyplot as plt
# Load the dataset
iris = sns.load_dataset('iris')
# Create a jointplot
sns.jointplot(x='sepal_length', y='sepal_width', data=iris,
kind='scatter') # Use '=' instead of '-'
plt.show
```

```
<function matplotlib.pyplot.show(close=None, block=None)>
```



KDE Plot for Setosa Species (Sepal Length vs Sepal Width):

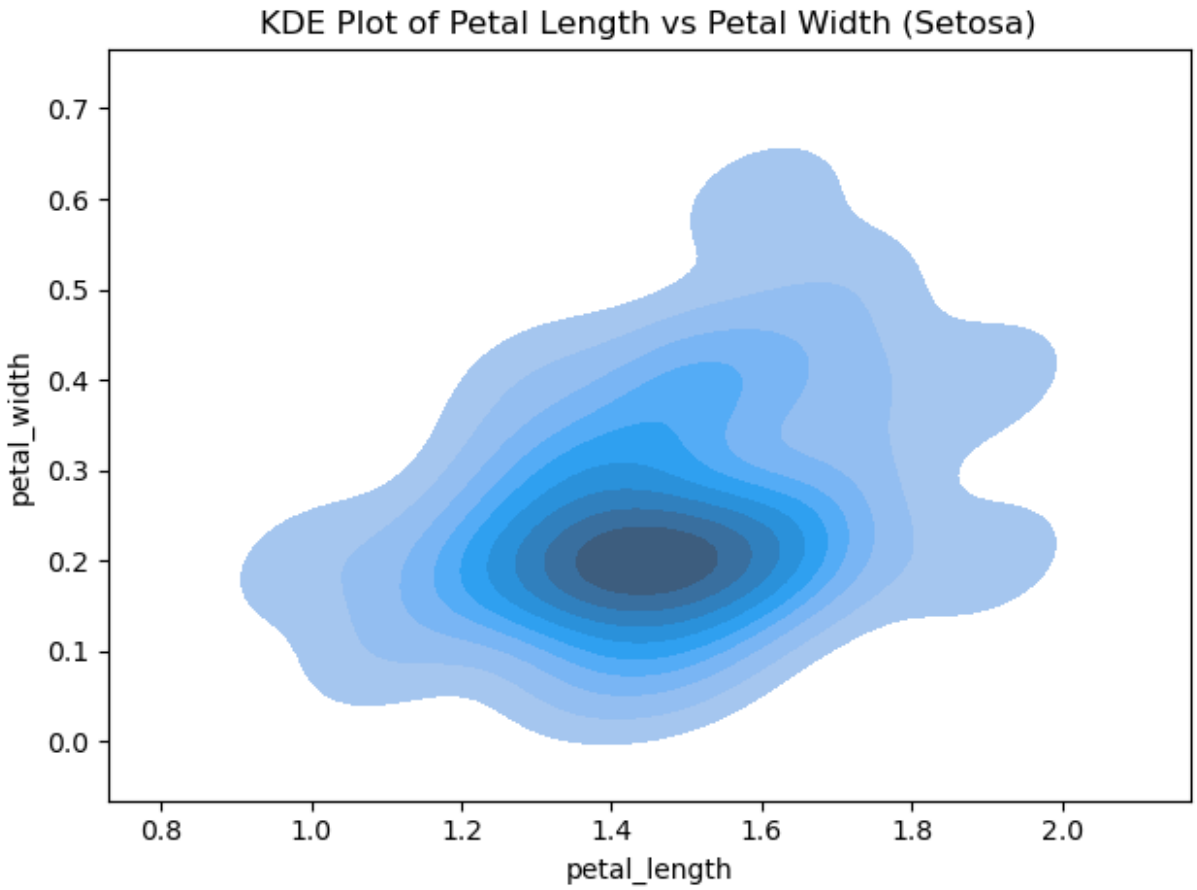
```
import seaborn as sns
import matplotlib.pyplot as plt
iris = sns.load_dataset('iris')
setosa = iris[iris['species'] == 'setosa']
sns.kdeplot(x='sepal_length', y='sepal_width', data=setosa, fill=True)
plt.title('KDE Plot of Sepal Length vs Sepal Width (Setosa)')
plt.show()
plt.tight_layout()
```




```
<Figure size 640x480 with 0 Axes>
```

KDE Plot for Setosa Species (Petal Length vs Petal Width):

```
import seaborn as sns
import matplotlib.pyplot as plt
iris = sns.load_dataset('iris')
sns.kdeplot(x='petal_length', y='petal_width', data=setosa, fill=True)
plt.title('KDE Plot of Petal Length vs Petal Width (Setosa)')
plt.tight_layout()
plt.show()
```


KDE Plot of Petal Length vs Petal Width (Setosa)
petal_width
petal_length
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
1.0
1.2
1.4
1.6
1.8
2.0