In [1]:
```
import seaborn as sns
import pandas as pd
import matplotlib.pyplot as plt
```

In [2]:
```
data = sns.load_dataset('iris')
print("Missing Values:\n", data.isnull().sum())
numeric_cols = data.select_dtypes(include='number').columns
data[numeric_cols] = data[numeric_cols].fillna(data[numeric_cols].mean())
print("\nDataset Info:")
print(data.info())
print("\nSummary Statistics:")
print(data.describe())
```

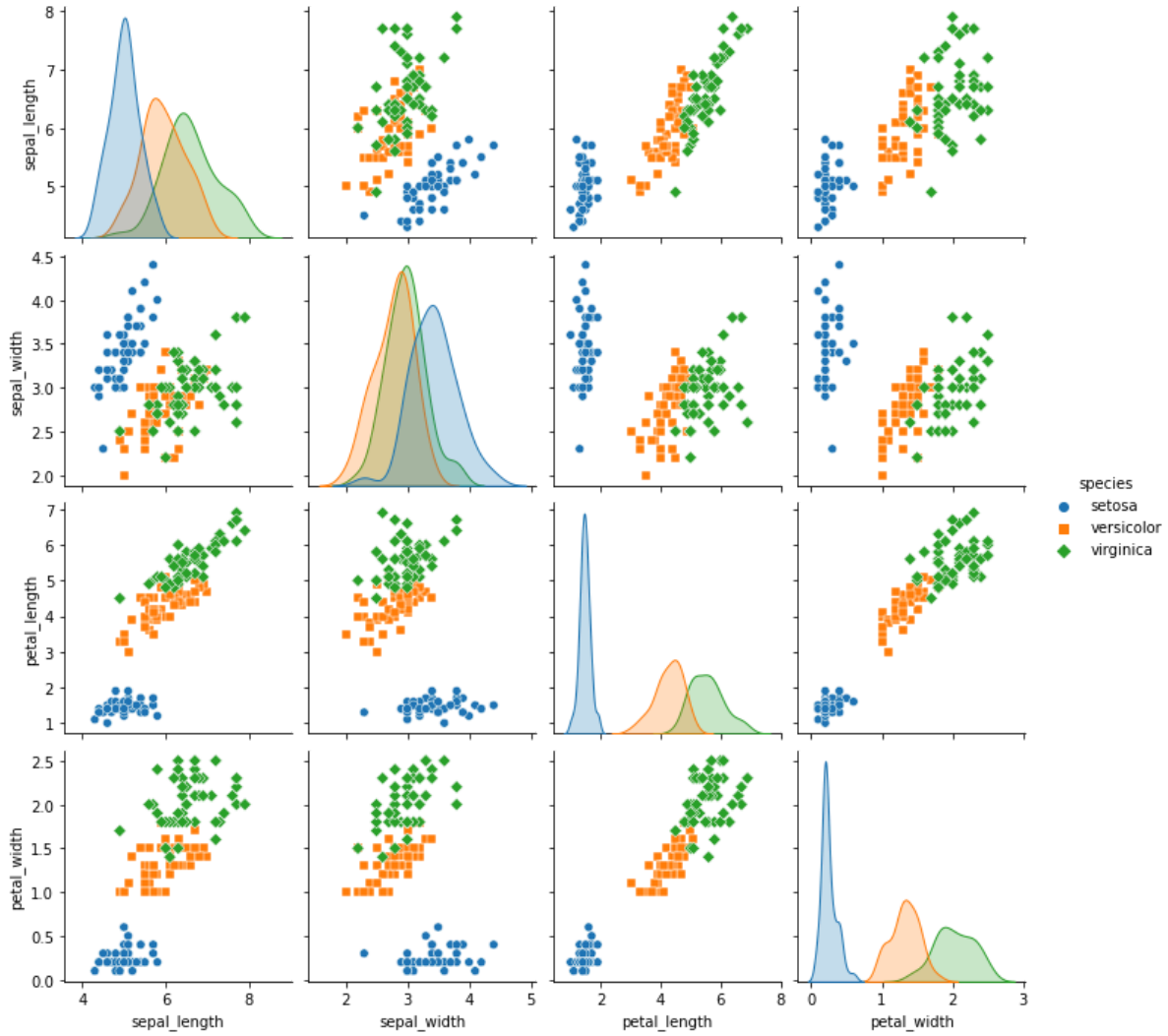
```
Missing Values:
 sepal_length    0
sepal_width     0
petal_length    0
petal_width     0
species         0
dtype: int64

Dataset Info:
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 150 entries, 0 to 149
Data columns (total 5 columns):
 #   Column        Non-Null Count  Dtype
---  ------        --------------  -----
 0   sepal_length  150 non-null    float64
 1   sepal_width   150 non-null    float64
 2   petal_length  150 non-null    float64
 3   petal_width   150 non-null    float64
 4   species       150 non-null    object
dtypes: float64(4), object(1)
memory usage: 6.0+ KB
None

Summary Statistics:
       sepal_length  sepal_width  petal_length  petal_width
count    150.000000   150.000000    150.000000   150.000000
mean       5.843333     3.057333      3.758000     1.199333
std        0.828066     0.435866      1.765298     0.762238
min        4.300000     2.000000      1.000000     0.100000
25%        5.100000     2.800000      1.600000     0.300000
50%        5.800000     3.000000      4.350000     1.300000
75%        6.400000     3.300000      5.100000     1.800000
max        7.900000     4.400000      6.900000     2.500000
```

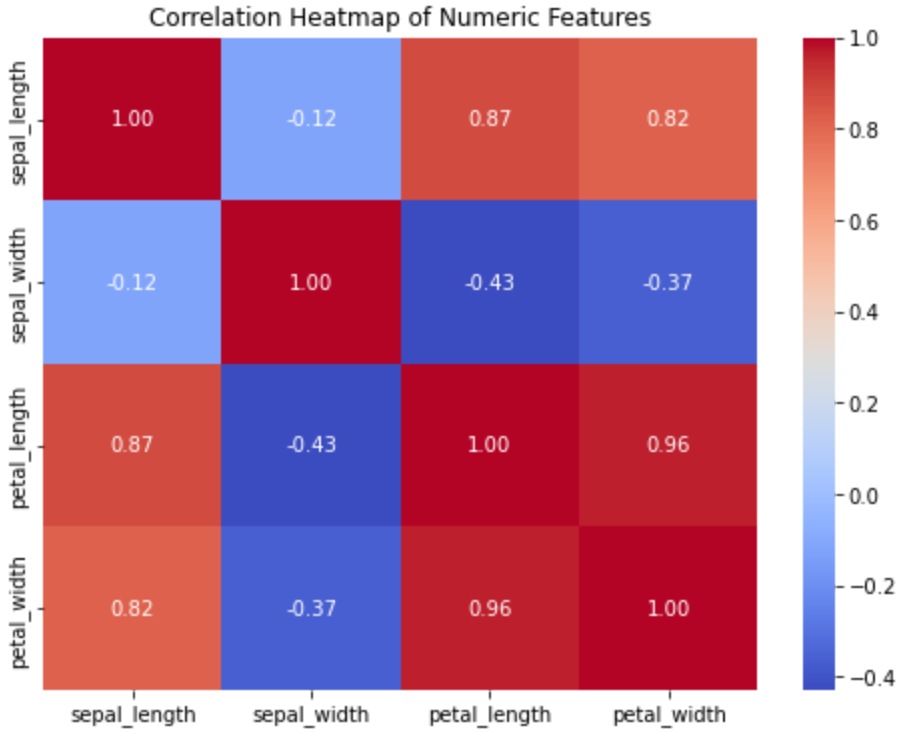
In [3]:
```
sns.pairplot(data, hue='species', markers=["o", "s", "D"])
plt.show()

```



In [4]:
```
numeric_data = data.select_dtypes(include='number')
correlation_matrix = numeric_data.corr()
```

In [5]:
```
plt.figure(figsize=(8, 6))
sns.heatmap(correlation_matrix, annot=True, cmap='coolwarm', fmt=".2f")
plt.title("Correlation Heatmap of Numeric Features")
plt.show()
```



In [ ]:
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In [ ]:
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