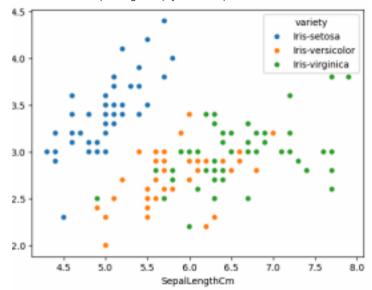
```
import pandas as pd import numpy as np
    import seaborn as sns z
    import matplotlib.pyplot as plt
    %matplotlib inline
    data=pd.read_csv('/content/Iris_Dataset.csv')
                 Id SepalLengthCm SepalWidthCm PetalLengthCm PetalWidthCm variety
                                                                        0 1 5.1 3.5 1.4 0.2 Iris-setosa
            1 2 4.9 3.0 1.4 0.2 Iris-setk,osa
           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-viirginica
          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
    data.info() i
         <class 'pandas.core.frame.DataFrame'>
         RangeIndex: 150 entries, 0 to 149
         Data columns (total 6 columns):
          # Column Non-Null Count Dtype
          0 Id 150 non-null int64
          1 SepalLengthCm 150 non-null float64
          2 SepalWidthCm 150 non-null float64
          3 PetalLengthCm 150 non-null float64
          4 PetalWidthCm 150 non-null float64
          5 variety 150 non-null object
         dtypes: float64(4), int64(1), object(1) memory usage: 7.2+ KB
                          Id SepalLengthCm SepalWidthCm PetalLengthCm PetalWidthCm
          count 150.000000 150.000000 150.000000 150.000000 150.000000
           mean 75.500000 5.843333 3.054000 3.758667 1.198667
            std 43.445368 0.828066 0.433594 1.764420 0.763161
           min 1.000000 4.300000 2.000000 1.000000 0.100000
           25% 38.250000 5.100000 2.800000 1.600000 0.300000
           50% 75.500000 5.800000 3.000000 4.350000 1.300000
           75% 112.750000 6.400000 3.300000 5.100000 1.800000
           max 150 000000 7 900000 4 400000 6 900000 2 500000
    data.value_counts('variety')
                          count
                Varie ty
            Iris-setosa 50
           Iris-versicolor 50
           Iris-virginica 50
                                https://colab.research.google.com/drive/1Tqx5IOXjHro7-CLF16NYNKyRMTEo1INN#printMode=true 1/5
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    sns.countplot(x='variety',data=data,)
    plt.show()
    dummies=pd.get dummies(data.variety)
    FinalDataset=pd.concat([pd.get_dummies(data.variety),data.iloc[:,[0,1,2,3]]],axis=1)
```

Iris-setosa Iris-versicolor Iris-virginica Id SepalLengthCm SepalWidthCm PetalLengthCm 0 True False False 1 5.1 3.5 1.4 1 True False False 2 4.9 3.0 1.4 2 True False False 3 4.7 3.2 1.3 3 True False False 4 4.6 3.1 1.5 4 True False False 5 5 0 3 6 1 4

sns.scatterplot(x='SepalLengthCm',y='SepalWidthCm',hue='variety',data=data)

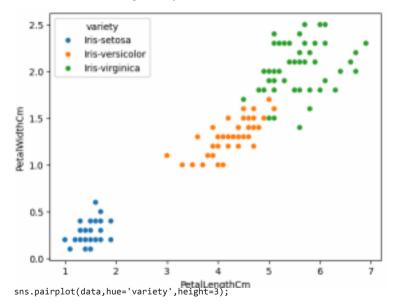
<Axes: xlabel='SepalLengthCm', ylabel='SepalWidthCm'>

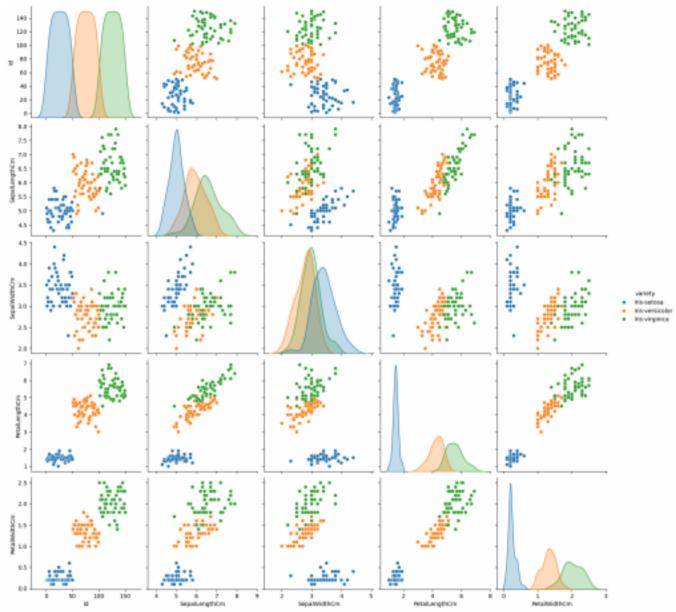


sns.scatterplot(x='PetalLengthCm',y='PetalWidthCm',hue='variety',data=data,)

https://colab.research.google.com/drive/1Tqx5IOXjHro7-CLF16NYNKyRMTEo1INN#printMode=true 2/5 10/14/24, 12:23 PM irispetalsepal.ipynb - Colab

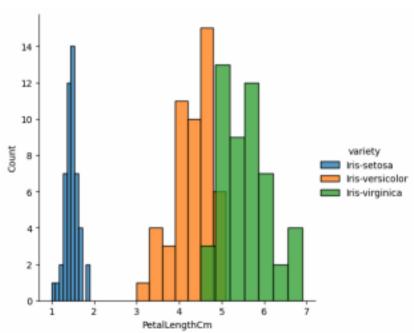
<Axes: xlabel='PetalLengthCm', ylabel='PetalWidthCm'>



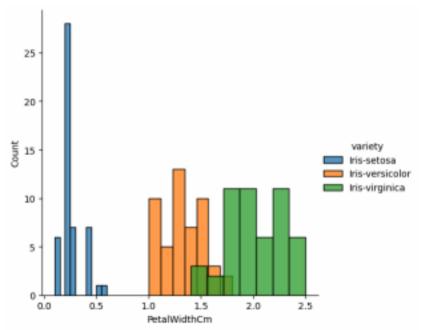


https://colab.research.google.com/drive/1Tqx5IOXjHro7-CLF16NYNKyRMTEo1INN#printMode=true~3/5~10/14/24,~12:23~PM~irispetalsepal.ipynb-Colab~plt.show()



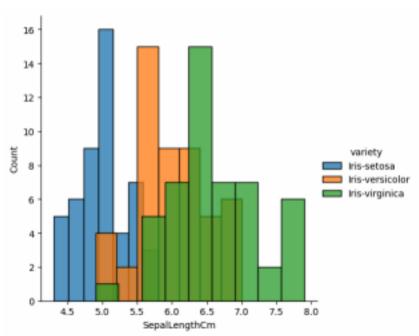


sns.FacetGrid(data,hue='variety',height=5).map(sns.histplot,'PetalWidthCm').add_legend();
plt.show();

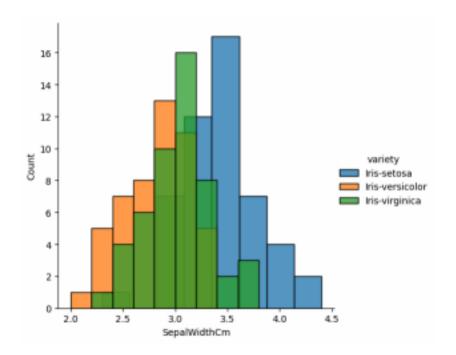


sns.FacetGrid(data,hue='variety',height=5).map(sns.histplot,'SepalLengthCm').add_legend();
plt.show();

https://colab.research.google.com/drive/1Tqx5IOXjHro7-CLF16NYNKyRMTEo1INN#printMode=true 4/5 10/14/24, 12:23 PM irispetalsepal.ipynb - Colab



sns.FacetGrid(data,hue='variety',height=5).map(sns.histplot,'SepalWidthCm').add_legend();
plt.show();



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