

SEABORN visualization on IRIS dataset ¶

```
In [29]: import matplotlib.pyplot as plt
         %matplotlib inline
```

```
In [22]: import seaborn as sns
```

```
In [24]: iris = sns.load_dataset('iris')
```

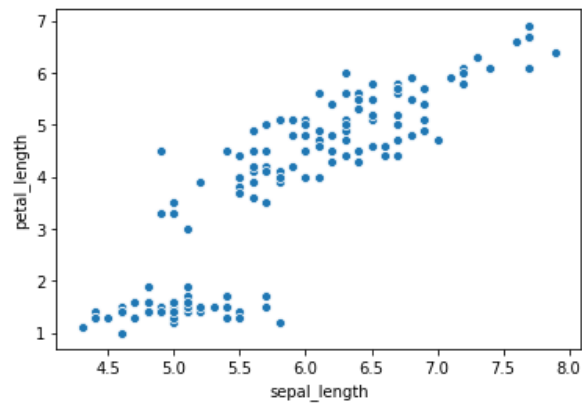
```
In [25]: iris
```

```
Out[25]:
```

	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
5	5.4	3.9	1.7	0.4	setosa
6	4.6	3.4	1.4	0.3	setosa

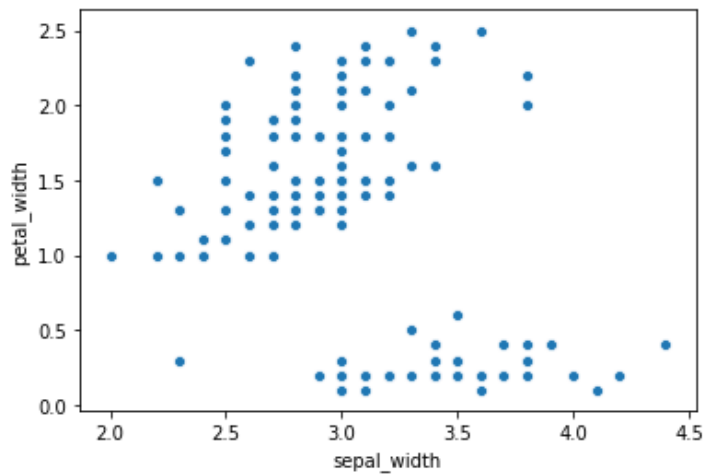
```
In [26]: sns.scatterplot(x="sepal_length",y="petal_length",data=iris)
```

```
Out[26]: <matplotlib.axes._subplots.AxesSubplot at 0x19103645240>
```



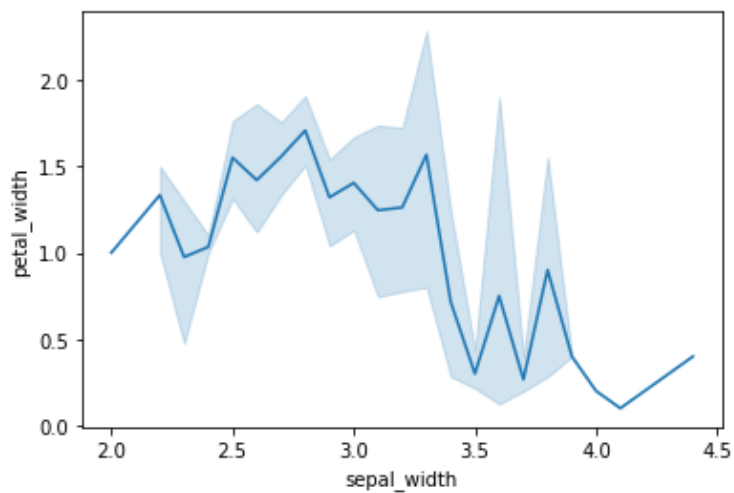
```
In [40]: sns.scatterplot(x="sepal_width",y="petal_width",data=iris)
```

```
Out[40]: <matplotlib.axes._subplots.AxesSubplot at 0x191040512b0>
```



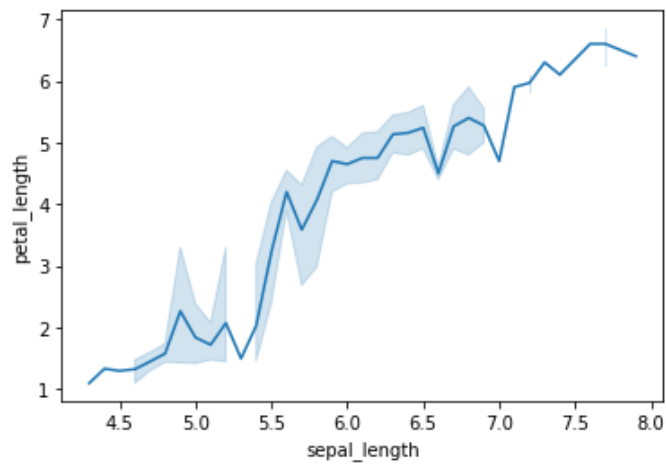
```
In [32]: sns.lineplot(x="sepal_width",y="petal_width",data=iris)
```

```
Out[32]: <matplotlib.axes._subplots.AxesSubplot at 0x19103b0fac8>
```



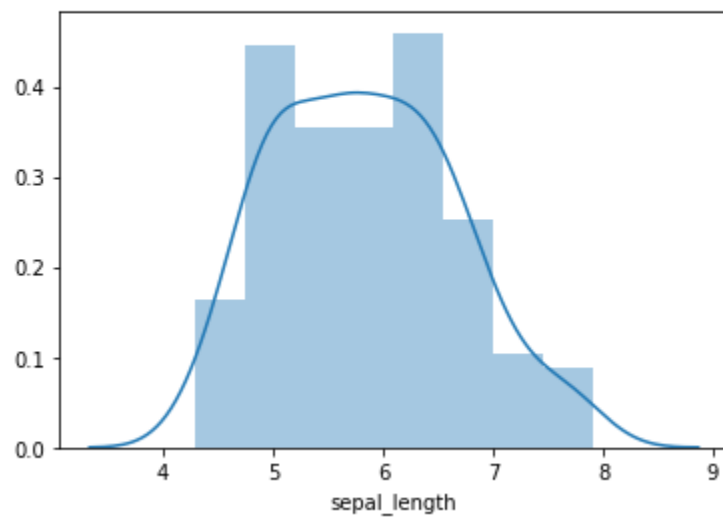
```
In [47]: sns.lineplot(x="sepal_length",y="petal_length",data=iris)
```

```
Out[47]: <matplotlib.axes._subplots.AxesSubplot at 0x19105a42d68>
```



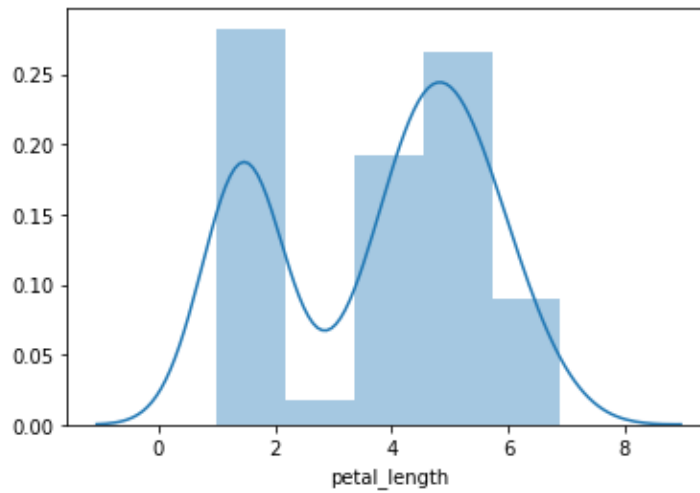
```
In [34]: sns.distplot(iris["sepal_length"])
```

```
Out[34]: <matplotlib.axes._subplots.AxesSubplot at 0x19103b76828>
```



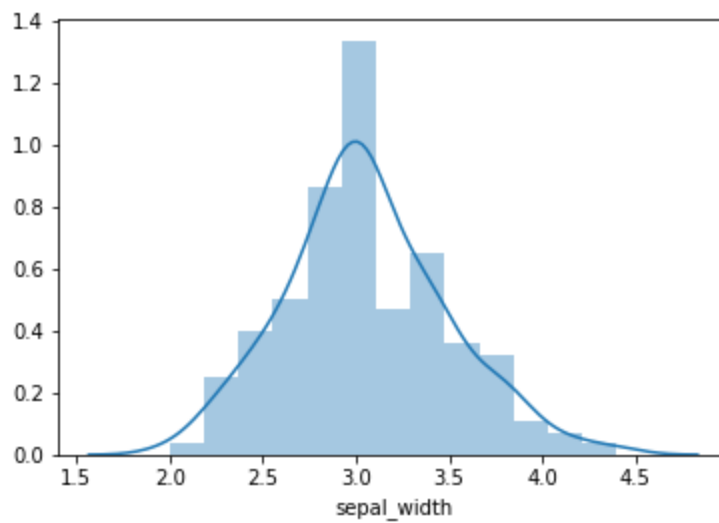
```
In [39]: sns.distplot(iris["petal_length"])
```

```
Out[39]: <matplotlib.axes._subplots.AxesSubplot at 0x19103fe07b8>
```



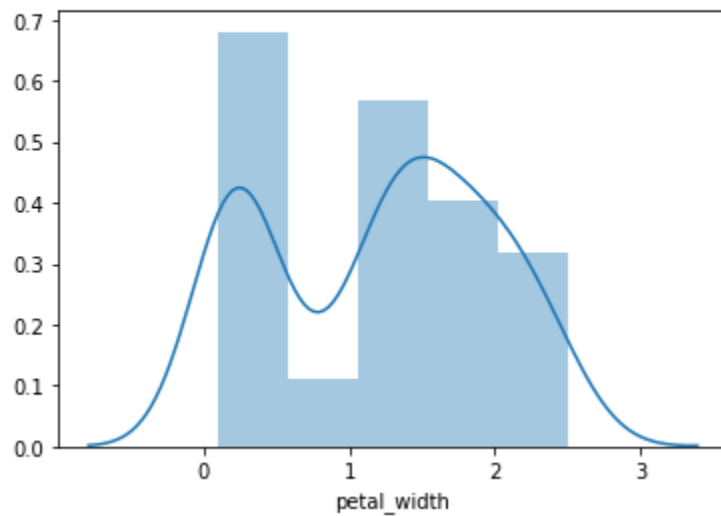
```
In [45]: sns.distplot(iris["sepal_width"])
```

```
Out[45]: <matplotlib.axes._subplots.AxesSubplot at 0x191051ca7b8>
```



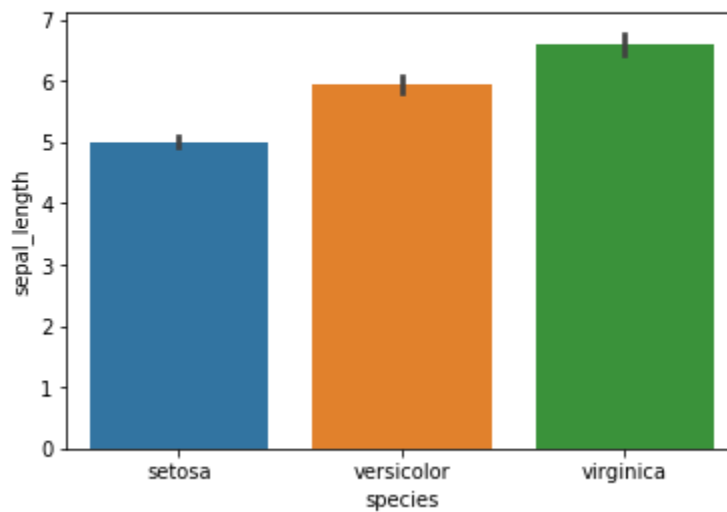
```
In [44]: sns.distplot(iris["petal_width"])
```

```
Out[44]: <matplotlib.axes._subplots.AxesSubplot at 0x191041894a8>
```



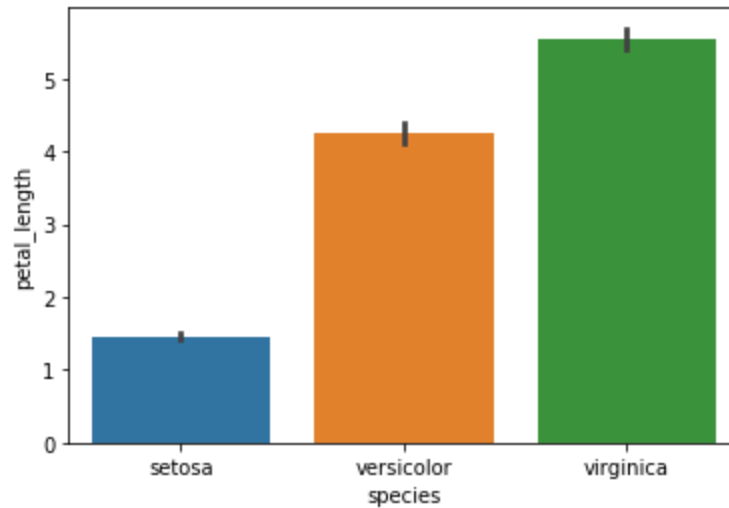
```
In [36]: sns.barplot(x="species",y="sepal_length",data=iris)
```

```
Out[36]: <matplotlib.axes._subplots.AxesSubplot at 0x19103bec2e8>
```



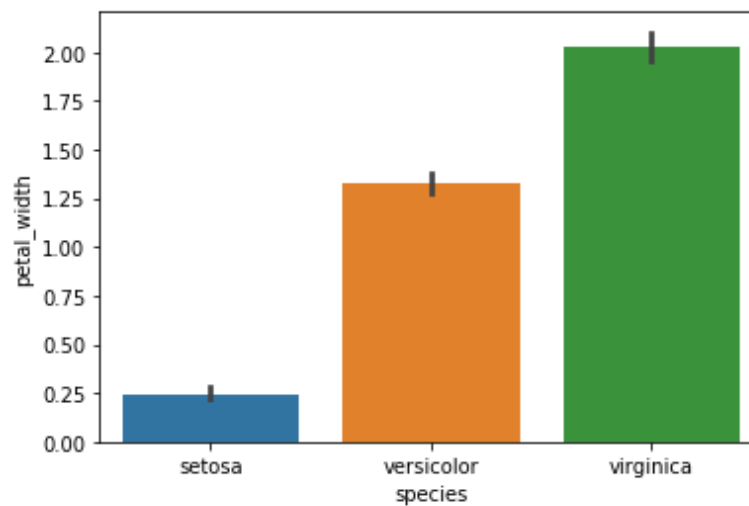
```
In [37]: sns.barplot(x="species",y="petal_length",data=iris)
```

```
Out[37]: <matplotlib.axes._subplots.AxesSubplot at 0x19103ee77f0>
```



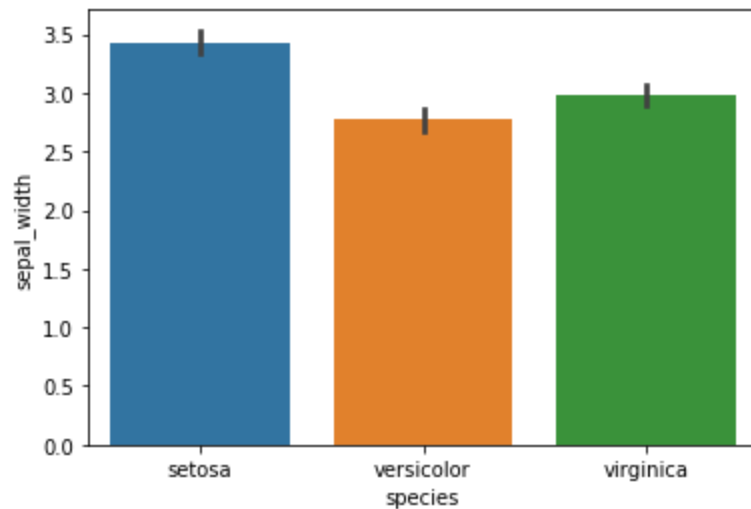
```
In [42]: sns.barplot(x="species",y="petal_width",data=iris)
```

```
Out[42]: <matplotlib.axes._subplots.AxesSubplot at 0x19103fc54a8>
```



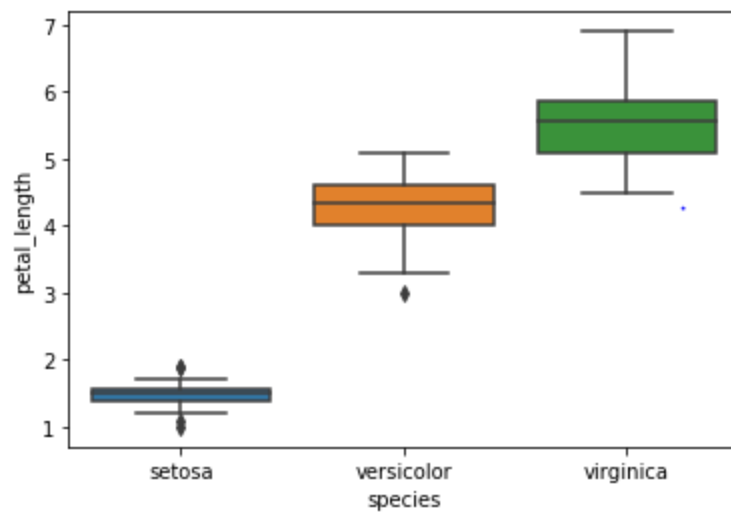
```
In [43]: sns.barplot(x="species",y="sepal_width",data=iris)
```

```
Out[43]: <matplotlib.axes._subplots.AxesSubplot at 0x1910411f080>
```



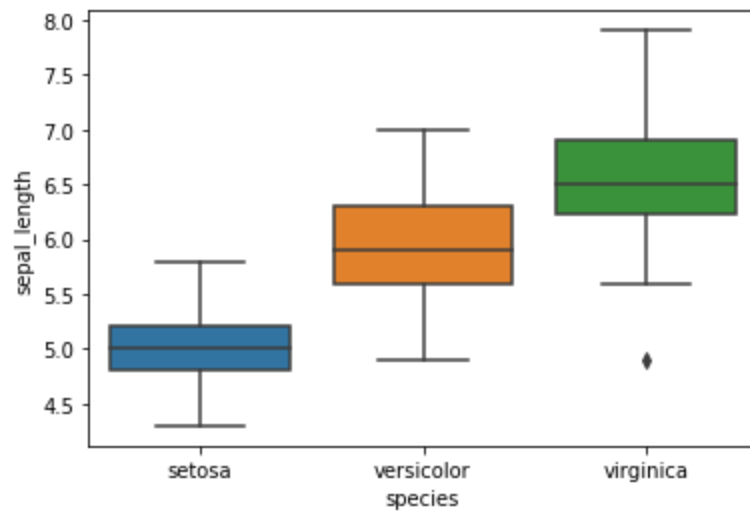
```
In [38]: sns.boxplot(x="species",y="petal_length",data=iris)
```

```
Out[38]: <matplotlib.axes._subplots.AxesSubplot at 0x19103f4df98>
```



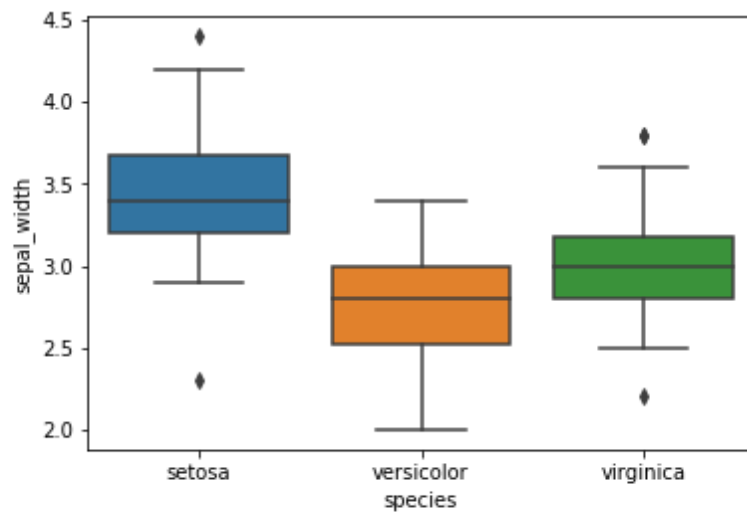
```
In [48]: sns.boxplot(x="species",y="sepal_length",data=iris)
```

```
Out[48]: <matplotlib.axes._subplots.AxesSubplot at 0x19105d1fa58>
```



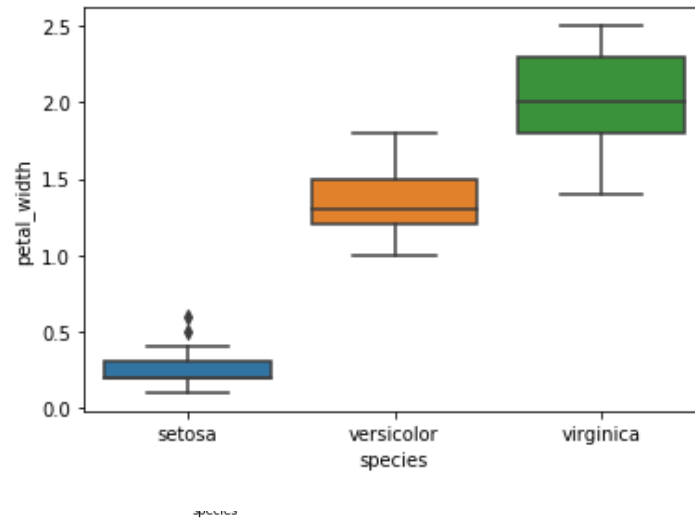
```
In [49]: sns.boxplot(x="species",y="sepal_width",data=iris)
```

```
Out[49]: <matplotlib.axes._subplots.AxesSubplot at 0x19105d2b438>
```



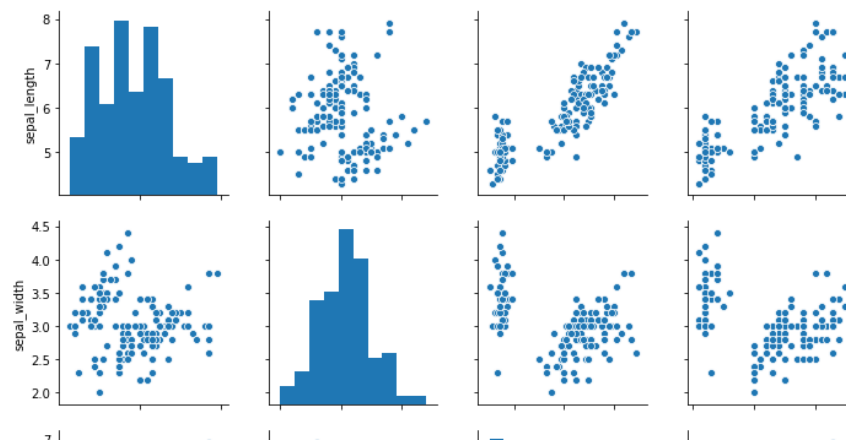

```
In [51]: sns.boxplot(x="species",y="petal_width",data=iris)
```

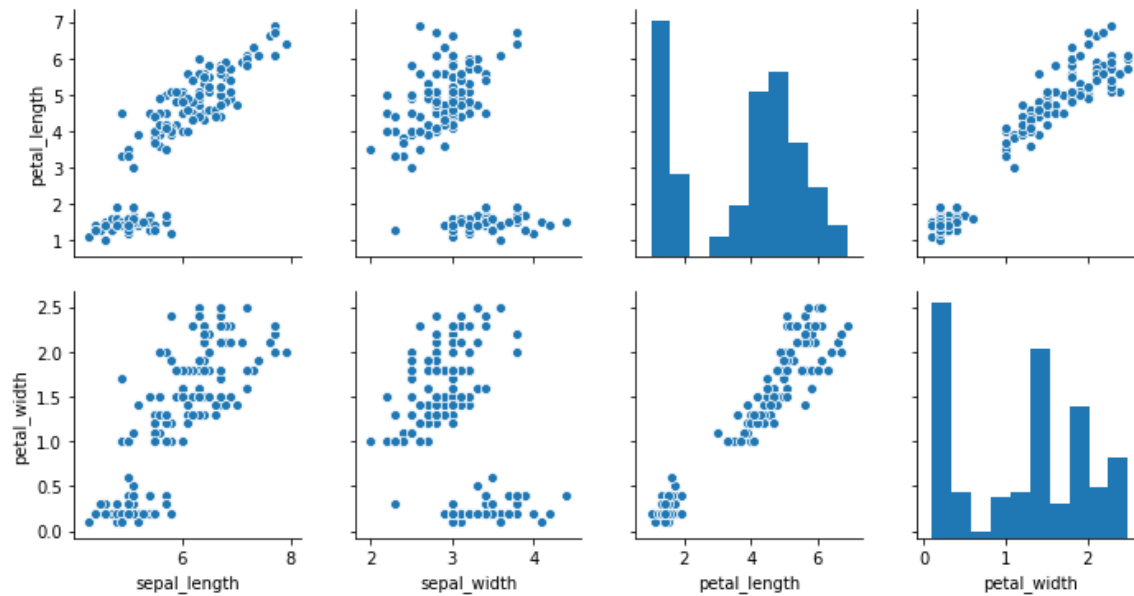
```
Out[51]: <matplotlib.axes._subplots.AxesSubplot at 0x19105ea9ac8>
```



```
In [46]: sns.pairplot(iris)
```

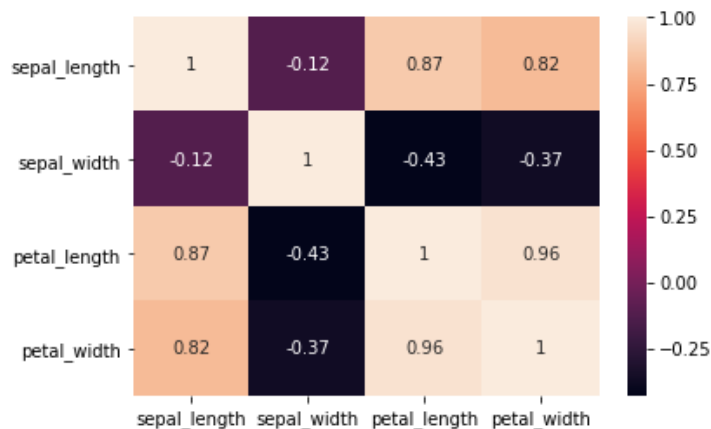
```
Out[46]: <seaborn.axisgrid.PairGrid at 0x1910415cef0>
```





```
In [52]: sns.heatmap(iris.corr(),annot=True)
```

```
Out[52]: <matplotlib.axes._subplots.AxesSubplot at 0x19105f7cc50>
```



```
-1 to 1
> 0.5 0.6 0.8 - highly positively correlated (direct proportionlity)
< 0.5 - partially
> -0.5 - partially correlated
< -0.5 - highly negatively correlated (inversly proportional)
```