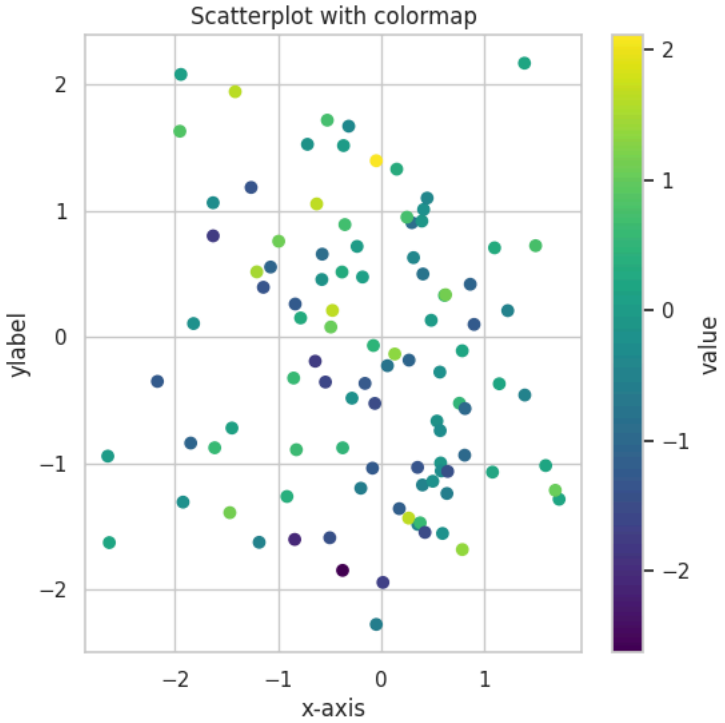
```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
#sample dataframe with multiple columns
data=pd.DataFrame({
    "x":np.random.randn(100),
     "y":np.random.randn(100),
    "value":np.random.randn(100)
})

#define the colomap and alpha values
cmap="viridis"
alpha=1
#create the scatterplot
plt.figure(figsize=(6,6))
plt.scatter(data["x"],data["y"],c=data["value"],cmap=cmap,alpha=alpha)
#customize the plot(otpional)
plt.xlabel("x-axis")
plt.ylabel("ylabel")
plt.title("Scatterplot with colormap")
plt.colorbar(label="value")
```

```
<matplotlib.colorbar.Colorbar at 0x7ec2dabf39a0>
```

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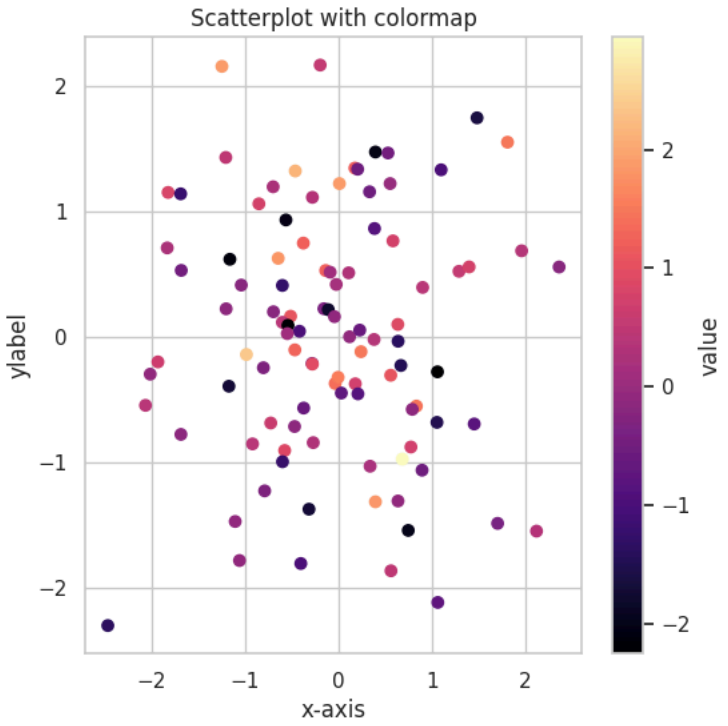
#sample dataframe with multiple columns
data=pd.DataFrame({
    "x":np.random.randn(100),
     "y":np.random.randn(100),
    "value":np.random.randn(100)
})

#define the colomap and alpha values
cmap="magma"
alpha=1
#create the scatterplot
plt.figure(figsize=(6,6))
plt.scatter(data["x"],data["y"],c=data["value"],cmap=cmap,alpha=alpha)
#customize the plot(otpional)
plt.xlabel("x-axis")
plt.ylabel("ylabel")
plt.title("Scatterplot with colormap")
plt.colorbar(label="value")
```

```
<matplotlib.colorbar.Colorbar at 0x7ec2daac37f0>
```




```
#importing required libraries:
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
%matplotlib inline

#setting a figure size for all the plots we shall be drawing inline
sns.set(rc={"figure.figsize": (6,6)})
current_palette=sns.color_palette()
sns.palplot(current_palette)
```

```
sns.palplot(sns.color_palette("hls",8))
```

```
sns.palplot(sns.color_palette("husl",8))
```

```
sample_colors=["windows blue","amber","greyish","faded green","dusty purple","pale red","medium green","denim blue"]
sns.palplot(sns.xkcd_palette(sample_colors))
```

```
#default matplotlib cubehelix version;
sns.palplot(sns.color_palette("cubehelix",8))
```

```
#default seaborn cubehelix version:
sns.palplot(sns.cubehelix_palette(8))
```

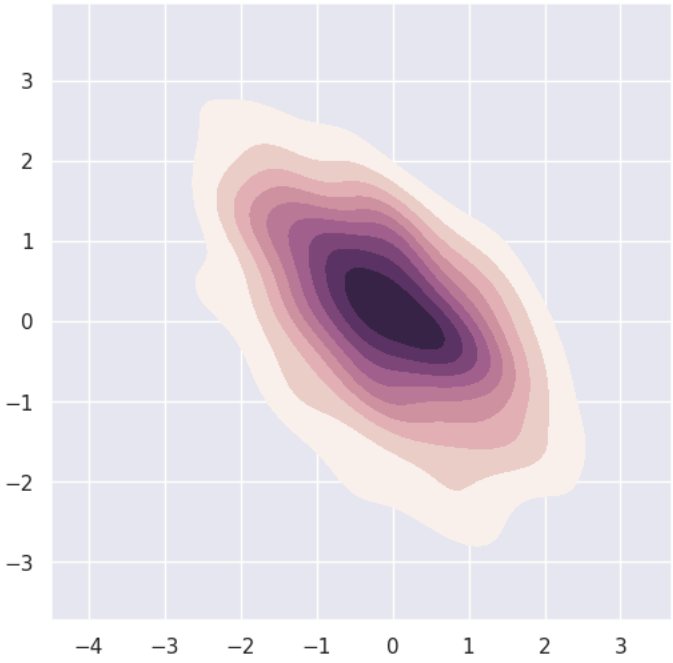
```
#density plot with seaborn defaults:
x,y = np.random.multivariate_normal([0,0],[[1,-.5],[-.5,1]],size=300).T
```

```
sample_cmap = sns.cubehelix_palette(light=1,as_cmap=True)
sns.kdeplot(x=x, y=y, cmap=sample_cmap, shade=True)
```

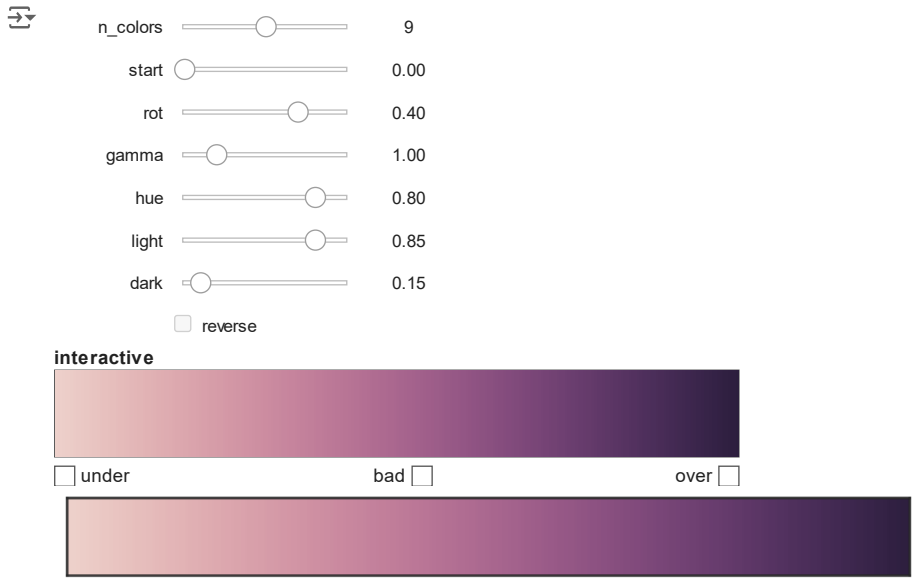
```
<ipython-input-53-5793652c068f>:2: FutureWarning:

`shade` is now deprecated in favor of `fill`; setting `fill=True`.
This will become an error in seaborn v0.14.0; please update your code.

  sns.kdeplot(x=x, y=y, cmap=sample_cmap, shade=True)
<Axes: >
```




```
sns.choose_cubehelix_palette(as_cmap=True)
```

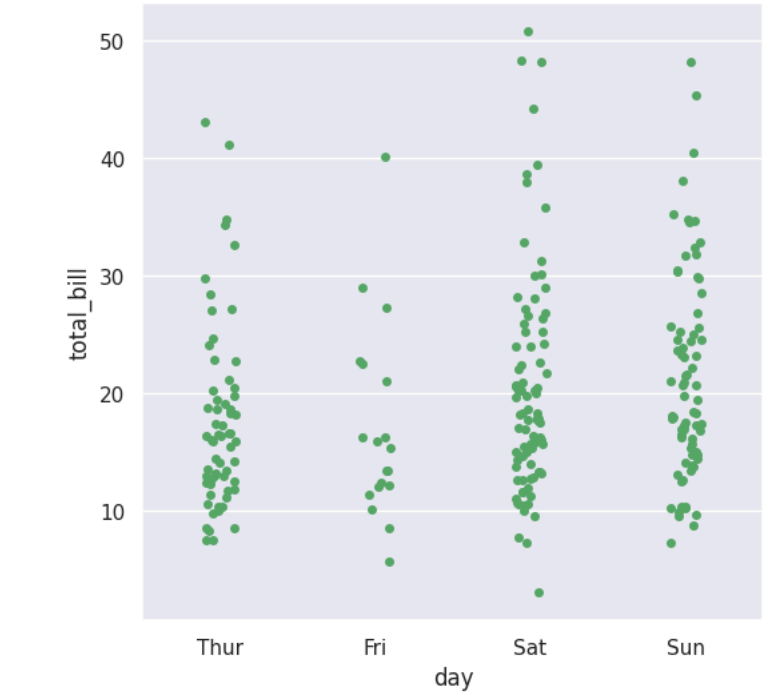



```
sns.palplot(sns.cubehelix_palette(n_colors=8,start=1.7,rot=0.2,dark=0,light=.95,reverse=True))
```

```
#loading up built_in dataset:
tips=sns.load_dataset("tips")

#crteating strip plot for day-wise revenue:
sns.stripplot(x="day",y="total_bill",data=tips,color="g")
```

```
<Axes: xlabel='day', ylabel='total_bill'>
```

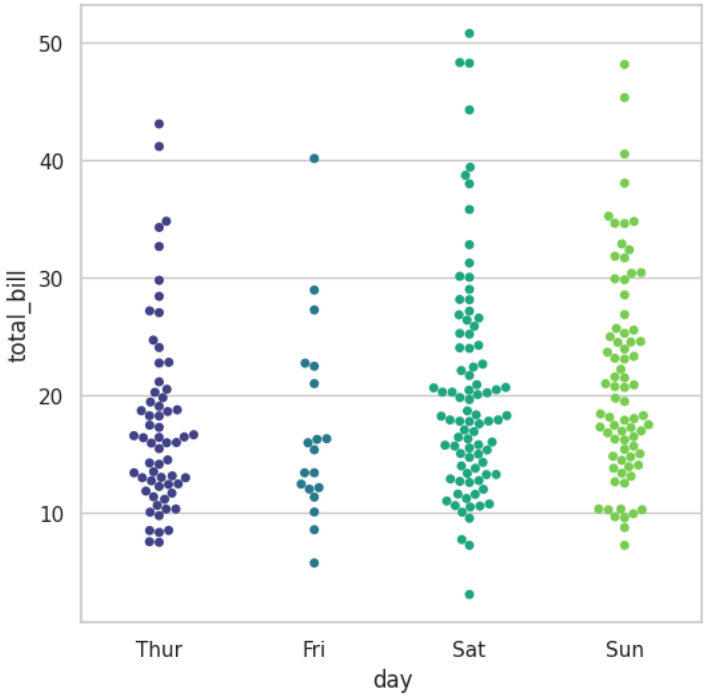



```
#set theme
sns.set_style('whitegrid')
#creating strip plot for day-wise revenue:
sns.swarmplot(x="day",y="total_bill",data=tips,palette="viridis")
```

```
<ipython-input-57-dffb224f51d3>:4: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and se

  sns.swarmplot(x="day",y="total_bill",data=tips,palette="viridis")
<Axes: xlabel='day', ylabel='total_bill'>
```

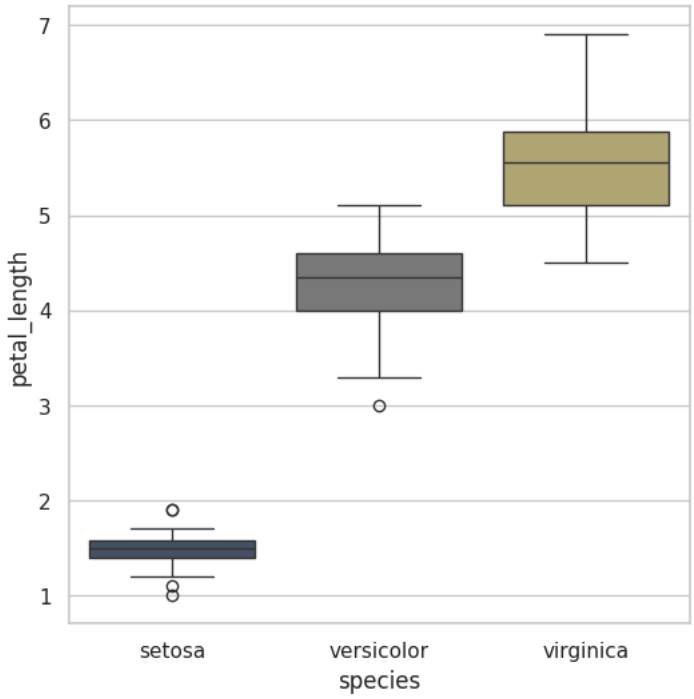



```
iris=sns.load_dataset("iris")
sns.boxplot(x="species",y="petal_length",data=iris,palette="cividis")
```

```
<ipython-input-58-cf3158b8d153>:2: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and se

  sns.boxplot(x="species",y="petal_length",data=iris,palette="cividis")
<Axes: xlabel='species', ylabel='petal_length'>
```

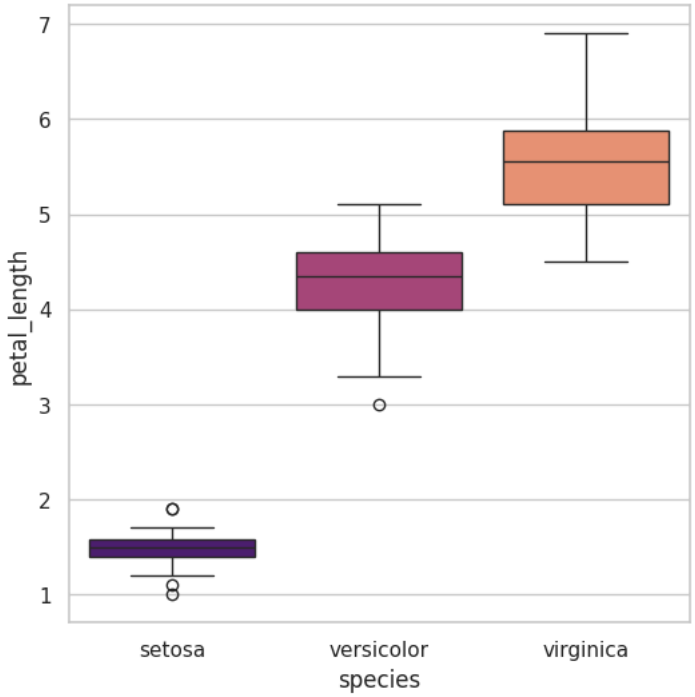



```
iris=sns.load_dataset("iris")
sns.boxplot(x="species",y="petal_length",data=iris,palette="magma")
```

```
<ipython-input-59-81ec1a23e432>:2: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and se

  sns.boxplot(x="species",y="petal_length",data=iris,palette="magma")
<Axes: xlabel='species', ylabel='petal_length'>
```

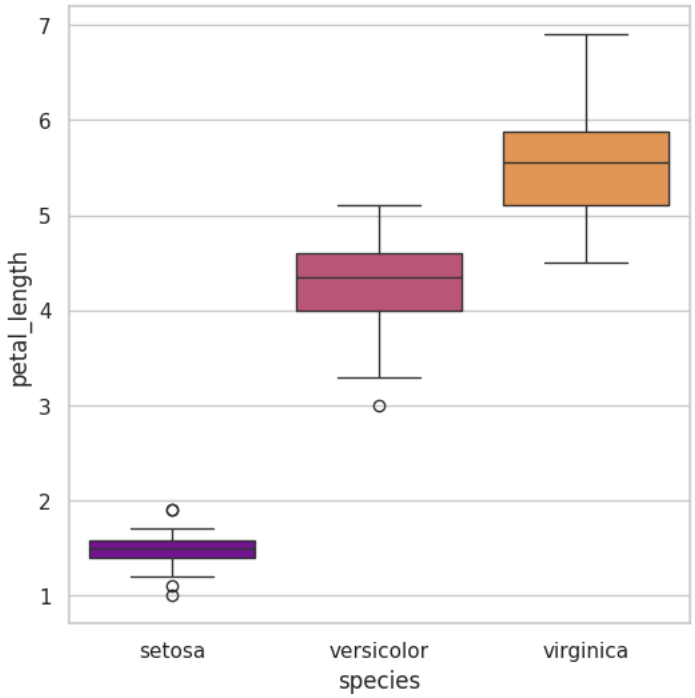



```
iris=sns.load_dataset("iris")
sns.boxplot(x="species",y="petal_length",data=iris,palette="plasma")
```

```
<ipython-input-60-54fc74a0f692>:2: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and se

  sns.boxplot(x="species",y="petal_length",data=iris,palette="plasma")
<Axes: xlabel='species', ylabel='petal_length'>
```




```
iris=sns.load_dataset("iris")
sns.boxplot(x="species",y="petal_length",data=iris,palette="inferno")
```

```
<ipython-input-61-ffe5dd5cf988>:2: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.0. Assign the `x` variable to `hue` and se

  sns.boxplot(x="species",y="petal_length",data=iris,palette="inferno")
<Axes: xlabel='species', ylabel='petal_length'>
```