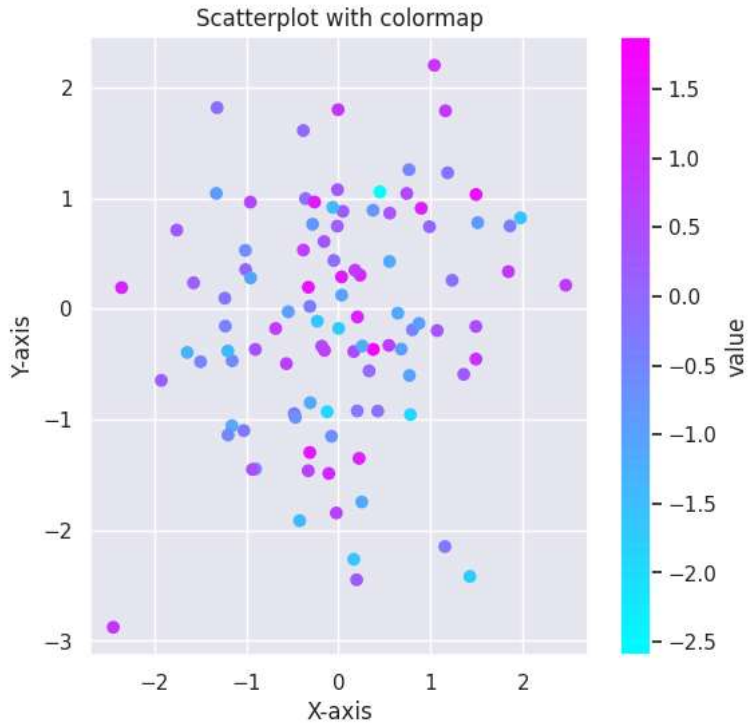
```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
data = pd.DataFrame({
    "x":np.random.randn(100),
    "y": np.random.randn(100),
    "value":np.random.randn(100)
})
cmap = "cool"
alpha = 1
plt.figure(figsize=(6,6))
plt.scatter(data["x"],data["y"],c=data["value"],cmap=cmap,alpha = alpha)
plt.xlabel("X-axis")
plt.ylabel("Y-axis")
plt.title("Scatterplot with colormap")
plt.colorbar(label="value")
```

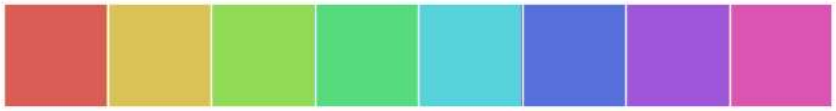
```
<matplotlib.colorbar.Colorbar at 0x78368088abf0>
```



Seaborn color palettes

```
import numpy as np
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
%matplotlib inline

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

current_palette=sns.color_palette()
sns.palplot(current_palette)
```

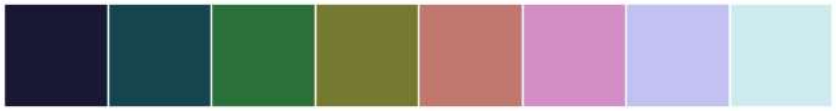
```
sns.palplot(sns.color_palette("hls",8))
```



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

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

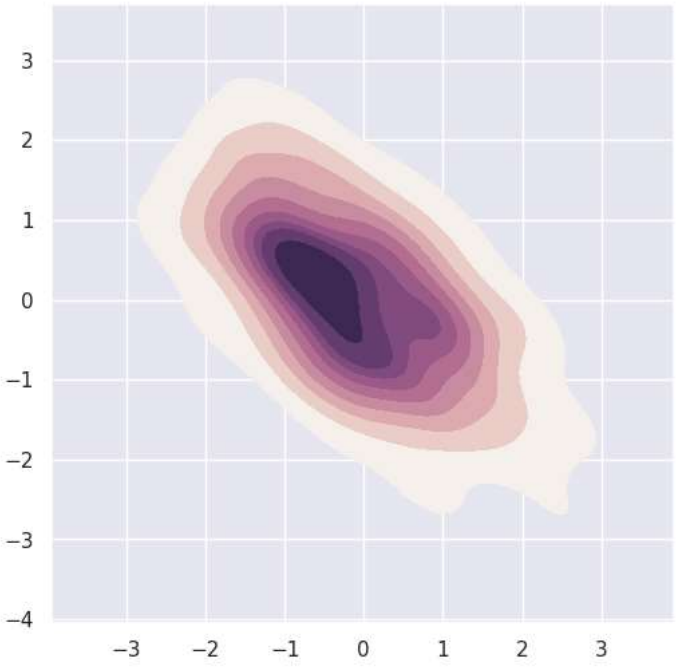
```
sns.palplot(sns.color_palette("cubehelix",8))
```



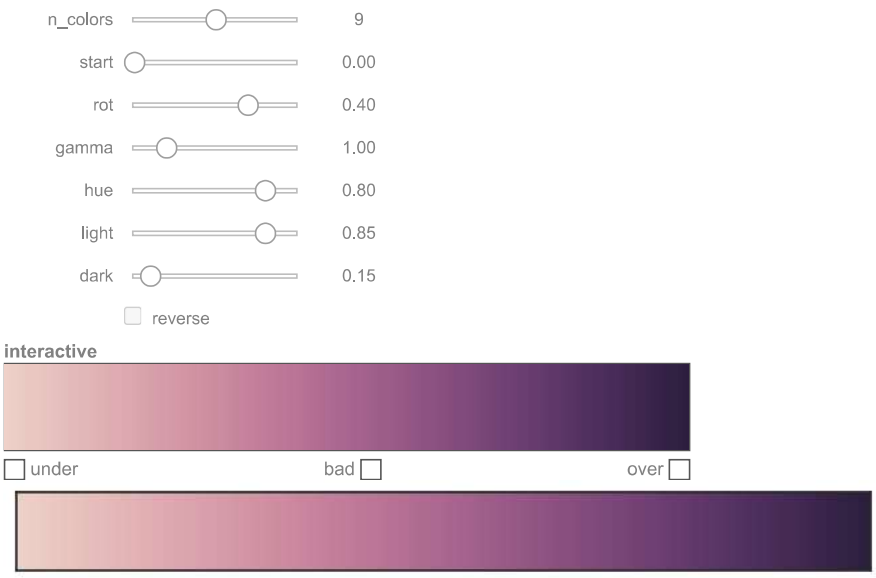
```
sns.palplot(sns.cubehelix_palette(8))
```

```
x,y=np.random.multivariate_normal([0,0],[[1,-.5],[-.5,1]],size=300).T
cmap=sns.cubehelix_palette(light=1,as_cmap=True)
sns.kdeplot(x=x,y=y,cmap=cmap,shade=True)
```

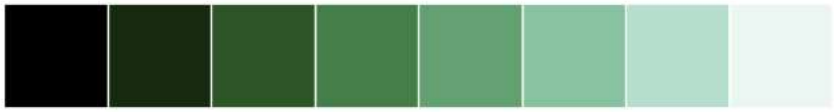
```
<ipython-input-11-d64f8d49484d>:3: FutureWarning:

`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=cmap,shade=True)
<Axes: >
```




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

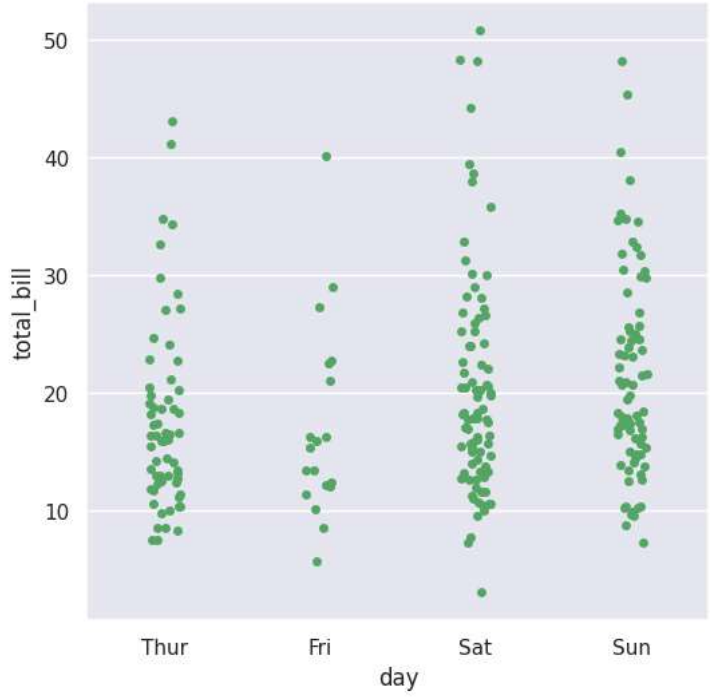



```
sns.palplot(sns.cubehelix_palette(n_colors=8,start=1.7,rot=0.2,dark=0,light=.95,reverse=True))
```



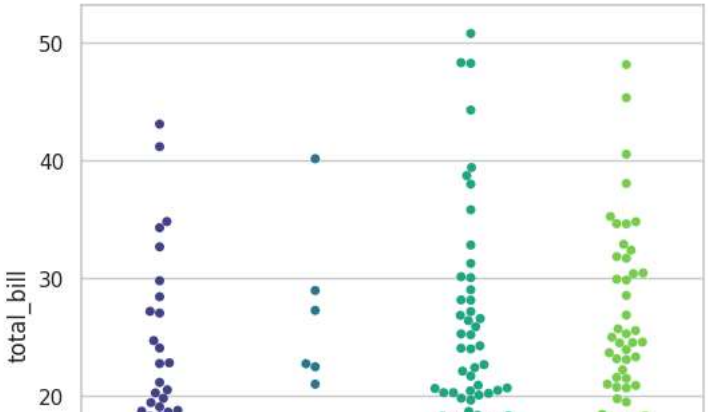
```
tips=sns.load_dataset("tips")
sns.stripplot(x="day",y="total_bill",data=tips,color="g")
```

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



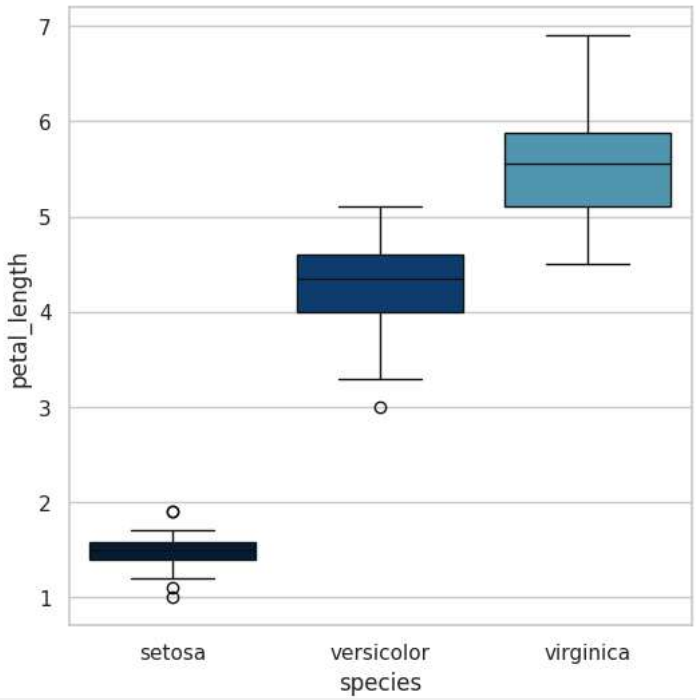

```
sns.set_style('whitegrid')
sns.swarmplot(x="day",y="total_bill",data=tips,palette="viridis")
```

```
<ipython-input-15-5b3046365237>:2: FutureWarning:

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

  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="ocean")
```

```
<ipython-input-16-d7c768bf0841>:2: FutureWarning:

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

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



Start coding or generate with AI.