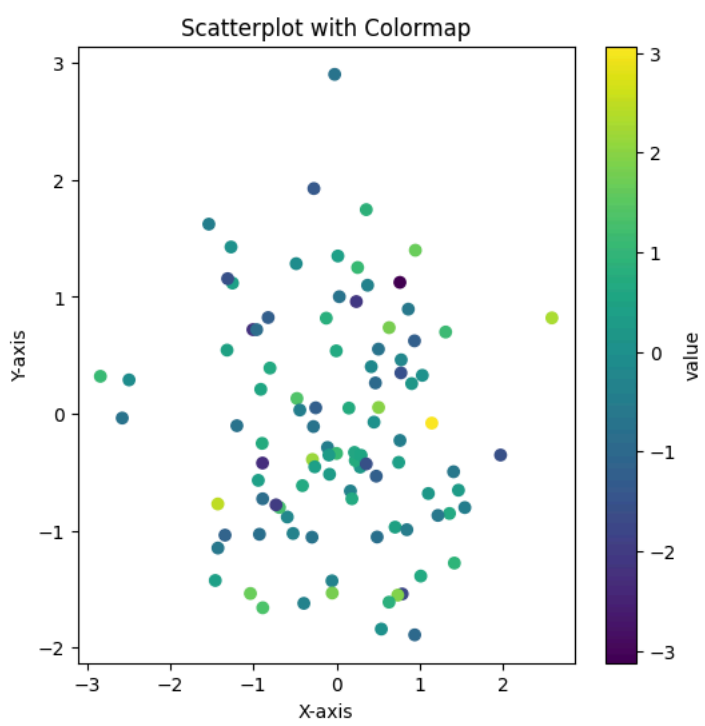
```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
data=pd.DataFrame({
    "x":np.random.randn(100),
    "y":np.random.randn(100),
    "value":np.random.randn(100)

})
cmap="viridis"
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")
plt.show()
```




```
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data=pd.DataFrame({
    "x":np.random.randn(100),
    "y":np.random.randn(100),
    "value":np.random.randn(100)

})
cmap="plasma"
alpha=1
plt.figure(figsize=(6,6))
plt.scatter(data["x"],data["y"],c=data["value"],cmap=cmap,alpha=alpha)
plt.xlabel("X-axis")
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```
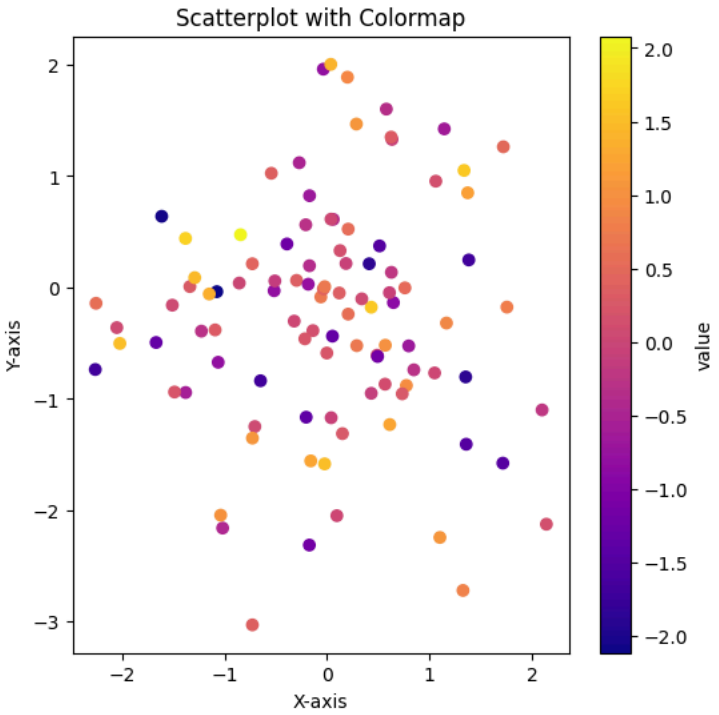




```
import seaborn as sns
%matplotlib inline
sns.set(rc={"figure.figsize":(6,6)})
```

```
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","yellow","pale red","denim blue","medium green"]
sns.palplot(sns.xkcd_palette(sample_colors))
```

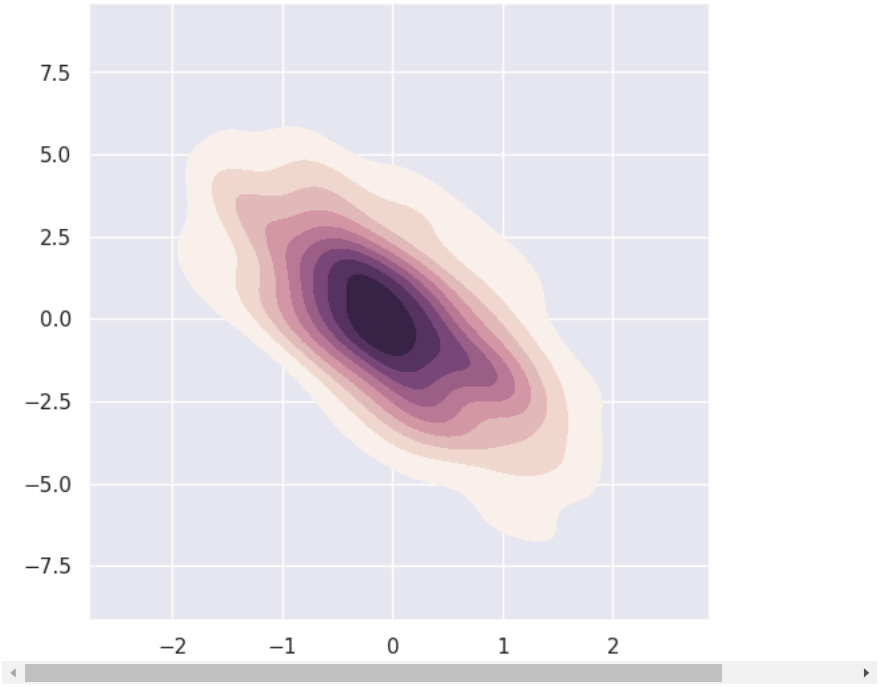
```
sns.palplot(sns.color_palette("cubehelix",8))
```

```

```

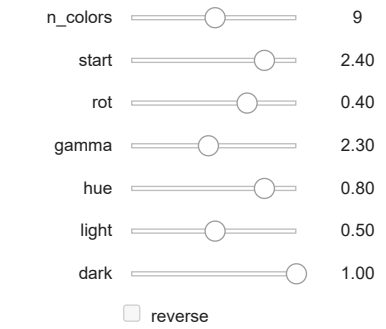
```
sns.palplot(sns.cubehelix_palette(8))
```

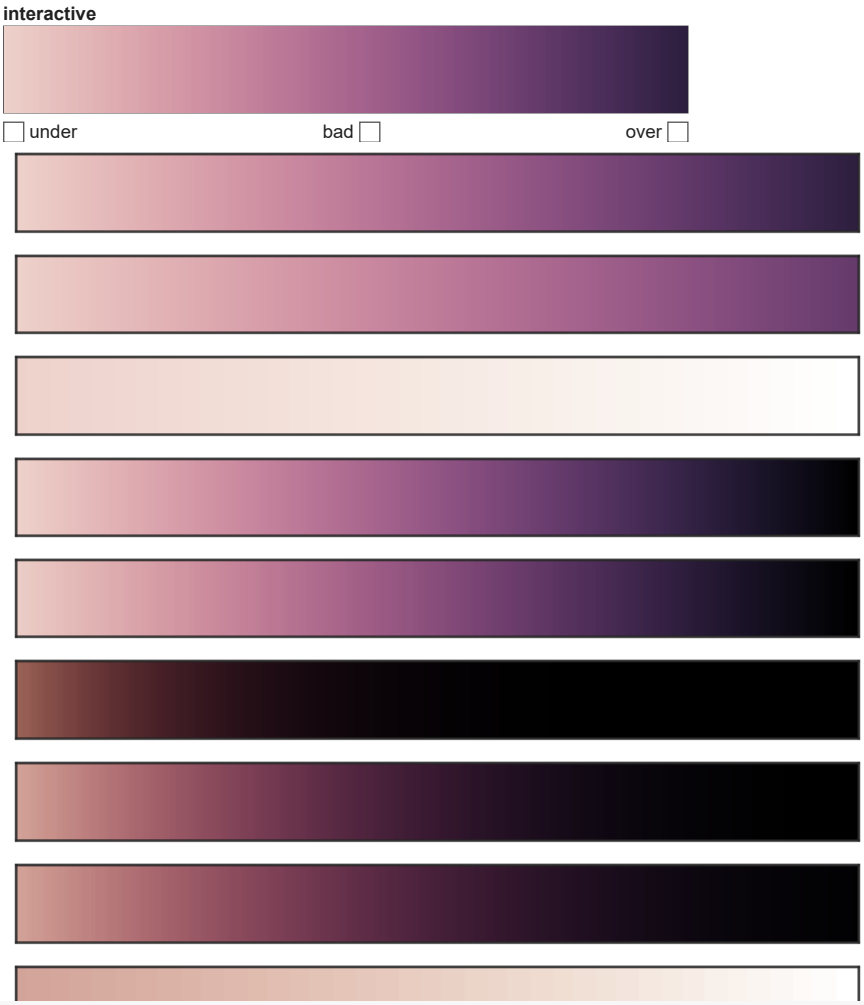
```
x,y=np.random.multivariate_normal([0,0],[[1,-5],[-.5,1]],size=300).T
sample_cmap=sns.cubehelix_palette(light=1, as_cmap=True)
sns.kdeplot(x=x , y=y, cmap=sample_cmap,shade=True)
```

```
<ipython-input-21-9145673f22a5>:1: RuntimeWarning: covariance is not symmetric positi
  x,y=np.random.multivariate_normal([0,0],[[1,-5],[-.5,1]],size=300).T
<ipython-input-21-9145673f22a5>: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=sample_cmap,shade=True)
<Axes: >
```




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

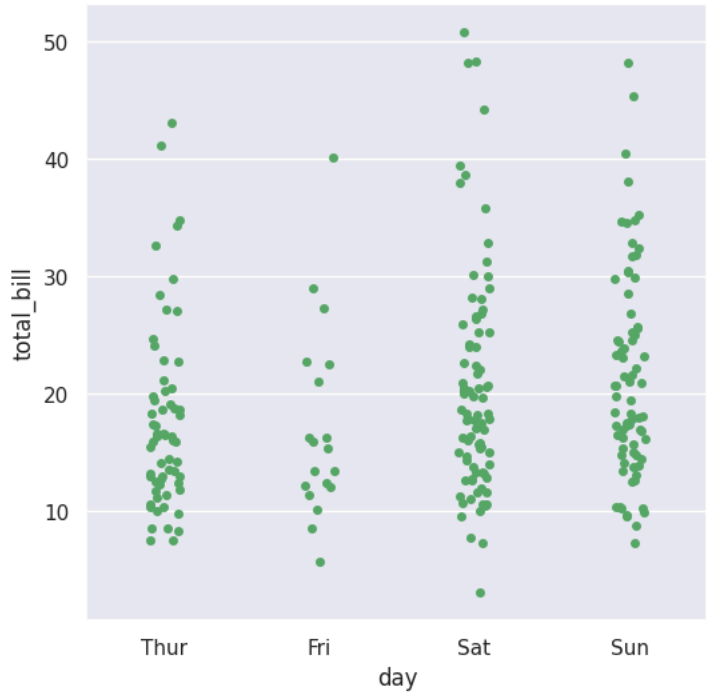





```
sns.palplot(sns.cubehelix_palette(n_colors=12,start=1.7,rot=0.2,dark=0.3))
```

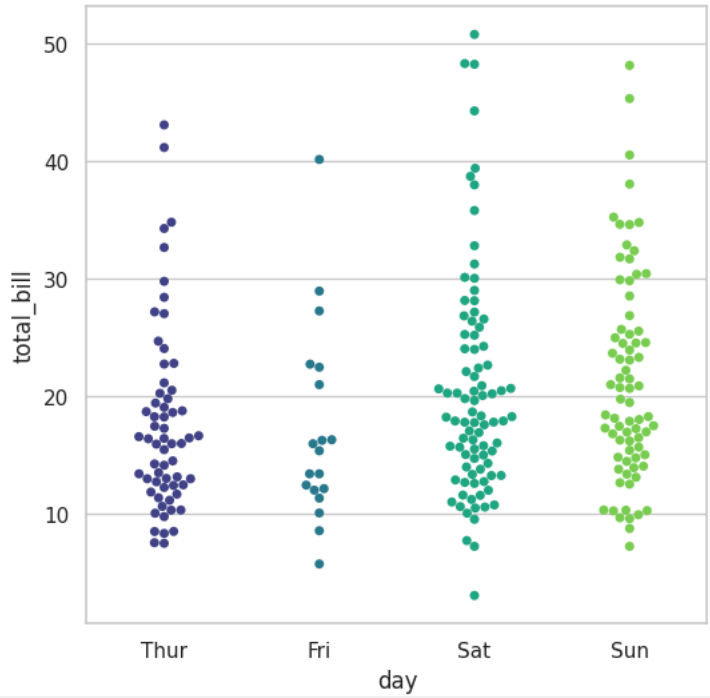
```
tips=sns.load_dataset("tips")
sns.stripplot(x="day",y="total_bill",data=tips,color="g")
```

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




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

```
<ipython-input-31-5b3046365237>:2: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.

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




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

```
<ipython-input-34-43d3e6f91793>:2: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.

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


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

```
<ipython-input-35-2f4d776e939e>:2: FutureWarning:

Passing `palette` without assigning `hue` is deprecated and will be removed in v0.14.

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