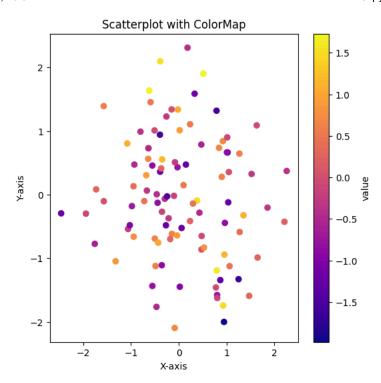
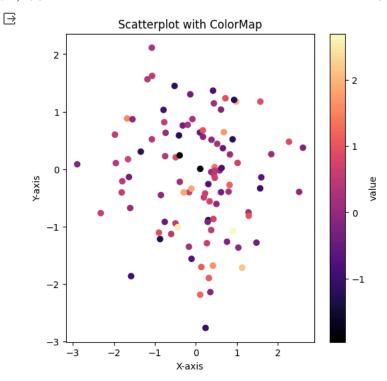
```
import pandas as pd
import numpy as np
{\tt import\ matplotlib.pyplot\ as\ plt}
#Sample dataframe with multiple columns
data=pd.DataFrame({
    x":np.random.randn(100),
    "y":np.random.randn(100),
    "value":np.random.randn(100)
})
#Define the colormap and alpha values
cmap="viridis"
alpha=1
#create the scatterplot
plt.figure(figsize=(6,6))
plt.scatter(data["x"],data["y"],c=data["value"],cmap=cmap,alpha=alpha)
#customise the plot
plt.xlabel("X-axis")
plt.ylabel("Y-axis")
plt.title("Scatterplot with ColorMap")
plt.colorbar(label="value")
#show the plot
plt.show()
```

Scatterplot with ColorMap 2 1 1 1 -0 Indicates a second of the color of the c

```
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 colormap and alpha values
cmap="plasma"
alpha=1
#create the scatterplot
plt.figure(figsize=(6,6))
plt.scatter(data["x"],data["y"],c=data["value"],cmap=cmap,alpha=alpha)
#customise the plot
plt.xlabel("X-axis")
plt.ylabel("Y-axis")
plt.title("Scatterplot with ColorMap")
plt.colorbar(label="value")
#show the plot
plt.show()
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    "y":np.random.randn(100),
    "value":np.random.randn(100)
})
#Define the colormap 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)
#customise the plot
plt.xlabel("X-axis")
plt.ylabel("Y-axis")
plt.title("Scatterplot with ColorMap")
plt.colorbar(label="value")
#show the plot
plt.show()
```



Seaborn

import numpy as np

```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
Xmatplotlib inline
WSetting a figure size for all plots we shall be drawing
sns.set(rc={"figure.figsize":(6,6)})

building color palettes

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

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

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

sns.palplot(sns.color_palette("husl",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 cubelix version:
sns.palplot(sns.color_palette("cubehelix",8))



#Default seaborn Cubehelix version
sns.palplot(sns.cubehelix_palette(8))



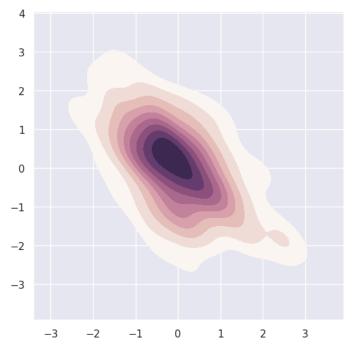
#Density Plot with Seaborn defaults: x,y=np.random.multivariate_normal([0,0],[[1,-.5],[-.5,1]],size=300).T

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

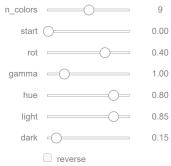
<ipython-input-28-59c5e391be82>:2: FutureWarning:

`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)





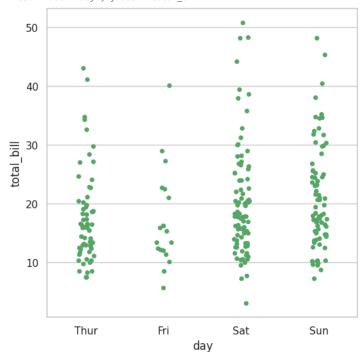
 $\verb|sns.palplot(sns.cubehelix_palette(n_colors=8, \verb|start=1.7|, \verb|rot=0.2|, \verb|dark=0|, \verb|light=.95|, \verb|reverse=True|)||$



#Loading up built-in dataset
tips=sns.load_dataset("tips")

#Creating 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 a Strip Plot
sns.stripplot(x="day",y="total_bill",data=tips,palette="plasma")
```

<ipython-input-36-5ec11283f2a8>: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 `legend

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

