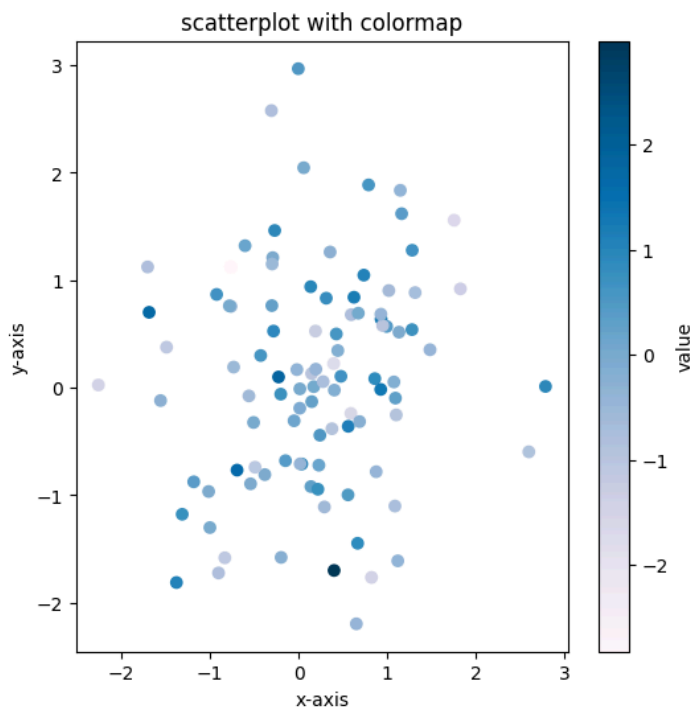


```
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
data=pd.DataFrame({
    "x":np.random.randn(100),
    "y":np.random.randn(100),
    "value":np.random.randn(100)
})
cmap="PuBu"
alpha=1
plt.figure(figsize=(6,6))
plt.scatter(data["x"],data["y"],c=data["value"],cmap=cmap,alpha=alpha)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

 <matplotlib.colorbar.Colorbar at 0x7a248850e170>



```
#importing required libraries
import seaborn as sns
%matplotlib inline
#setting a figure size for all the plots we shall be drawing in
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"]
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))
```



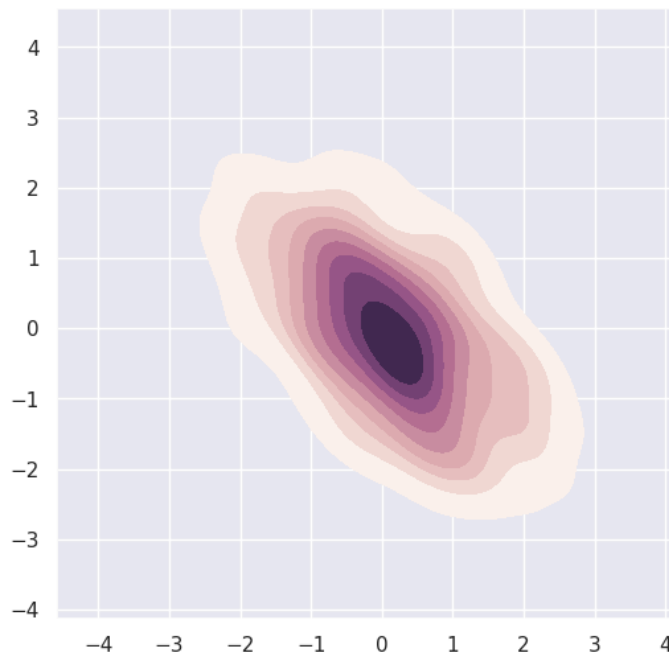
```
#density plot with seaborn default:
x,y=np.random.multivariate_normal([0,0],[[1,-.5],[-.5,1]],size=300).T
sample_cmap=sns.cubehelix_palette(light=1,as_cmap=True)
sns.kdeplot(x=x,y=y,cmap=sample_cmap,shade=True,)
```

<ipython-input-23-a3f9261effb8>:4: 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)
```



n_colors

9

start

0.00

rot

0.40

gamma

1.00

hue

0.80

light

0.85

dark

0.15

☐

reverse



```
sns.palplot(sns.cubehelix_palette(n_colors=8, start=1.7, rot=0.2, dark=0, light=.95, reverse=.25))
```



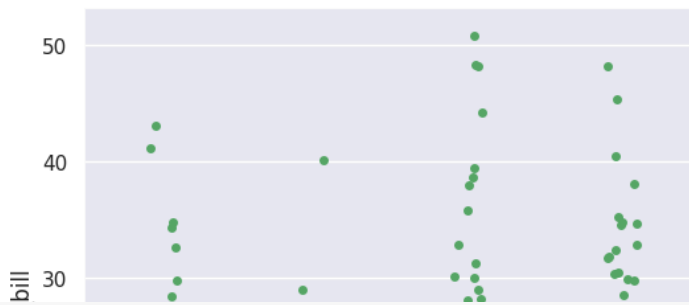
```
#loading up built-in datasets:
tips=sns.load_dataset("tips")
tips
```

	total_bill	tip	sex	smoker	day	time	size
0	16.99	1.01	Female	No	Sun	Dinner	2
1	10.34	1.66	Male	No	Sun	Dinner	3
2	21.01	3.50	Male	No	Sun	Dinner	3
3	23.68	3.31	Male	No	Sun	Dinner	2
4	24.59	3.61	Female	No	Sun	Dinner	4
...
239	29.03	5.92	Male	No	Sat	Dinner	3
240	27.18	2.00	Female	Yes	Sat	Dinner	2
241	22.67	2.00	Male	Yes	Sat	Dinner	2
242	17.82	1.75	Male	No	Sat	Dinner	2
243	18.78	3.00	Female	No	Thur	Dinner	2

244 rows × 7 columns

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

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



```
#creating strip plot for day_wise revenue:
```

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

```
<ipython-input-32-30701ce9f1a8>: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 `leg

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

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

