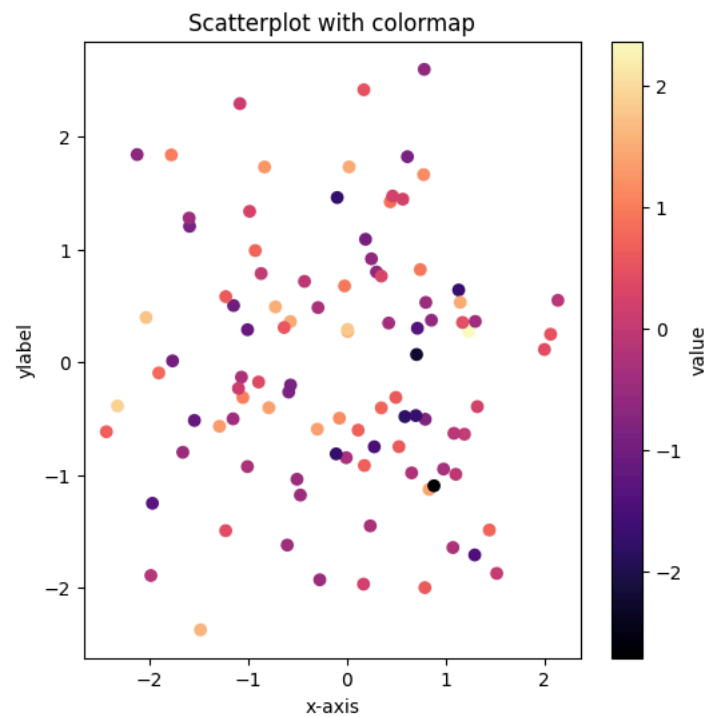


Double-click (or enter) to edit

```
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="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(optional)
plt.xlabel("x-axis")
plt.ylabel("ylabel")
plt.title("Scatterplot with colormap")
plt.colorbar(label="value")
```

 <matplotlib.colorbar.Colorbar at 0x7aa09f418640>



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



```
sample = ["windows blue","amber", "greyish", "faded green", "dusty purple","orange","lavender","olive green"]
sns.palplot(sns.xkcd_palette(sample))
```



```
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-31-ca665d47ab01>:1: RuntimeWarning: covariance is not symmetric positive-semidefinite.
```

```
x,y=np.random.multivariate_normal([0, 0], [[1, -5], [-5, 1]], size=300).T
```

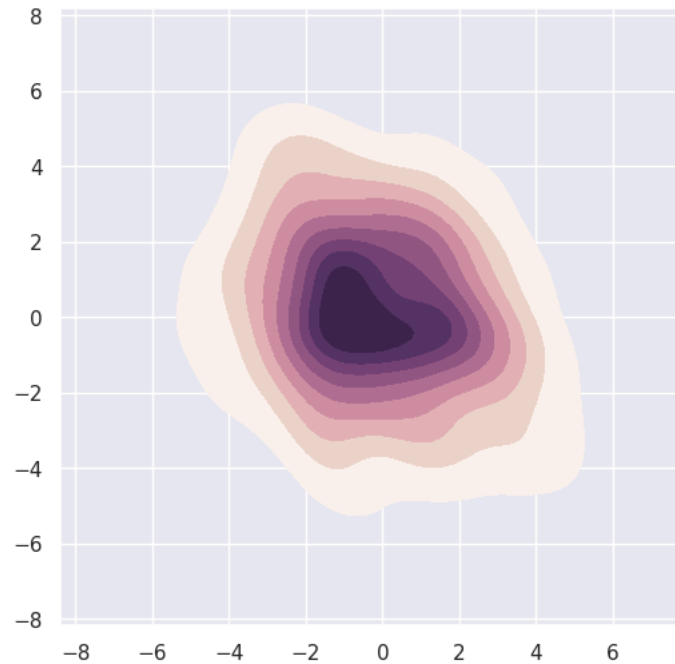
```
<ipython-input-31-ca665d47ab01>:3: FutureWarning:
```

```
`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: >
```



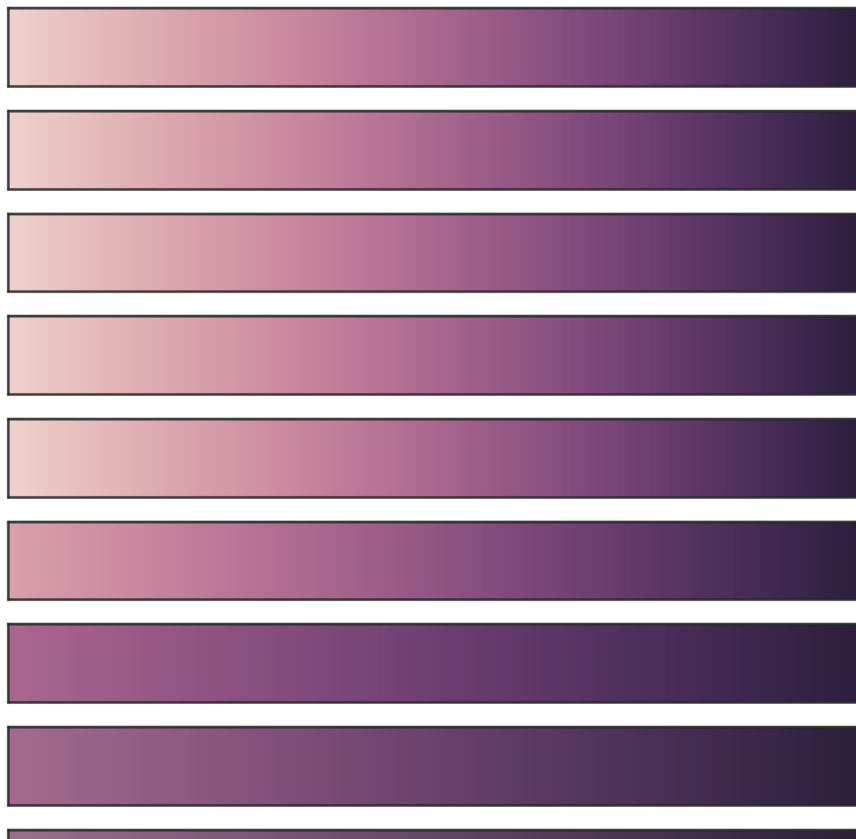
```
sns.choose_cubehelix_palette(as_cmap=True)
```

n_colors 8
start 1.50
rot 0.00
gamma 2.60
hue 0.50
light 0.50
dark 0.15
☐ reverse

interactive



☐ under bad ☐ over ☐

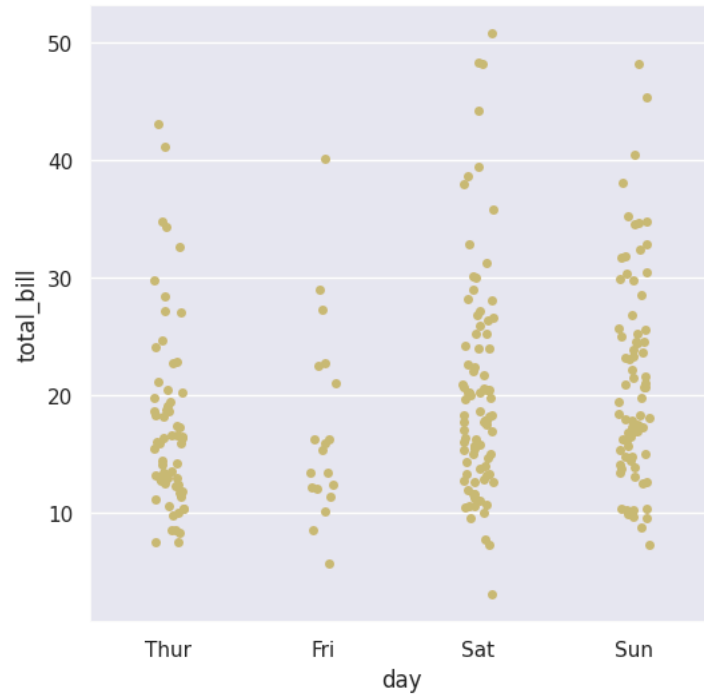


```
sns.palplot(sns.cubehelix_palette(n_colors=8, start=1.7, rot=0.2, dark=0, light=.95, reverse=True))
```



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

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

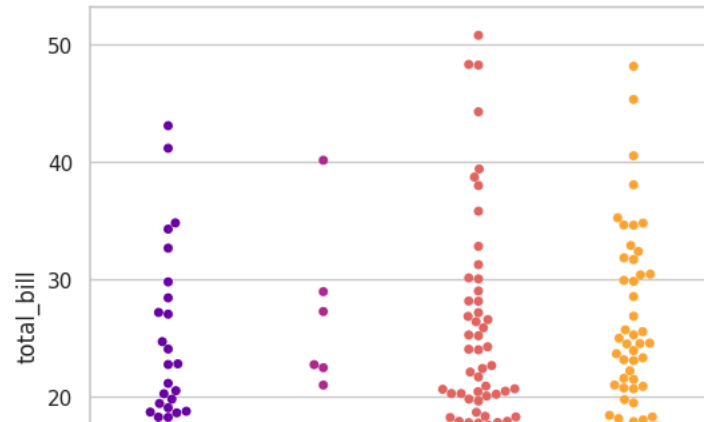


```
sns.set_style('whitegrid')
sns.swarmplot(x="day", y="total_bill", data=tips,palette="plasma")
```

```
<ipython-input-42-8aab53b747ba>: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

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



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

```
<ipython-input-45-ef567c1fa48e>: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

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

```
7
```