```python
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="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")
plt.ylabel("ylabel")
plt.title("Scatterplot with colormap")
plt.colorbar(label="value")
```
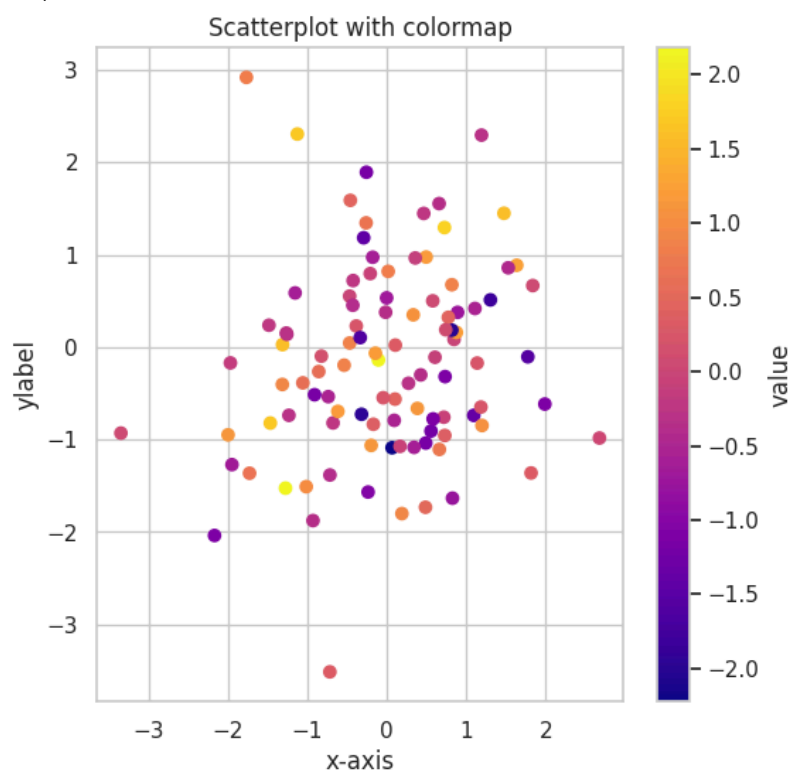
<matplotlib.colorbar.Colorbar at 0x798f661c6680>


```python
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)})
```

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



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

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



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



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



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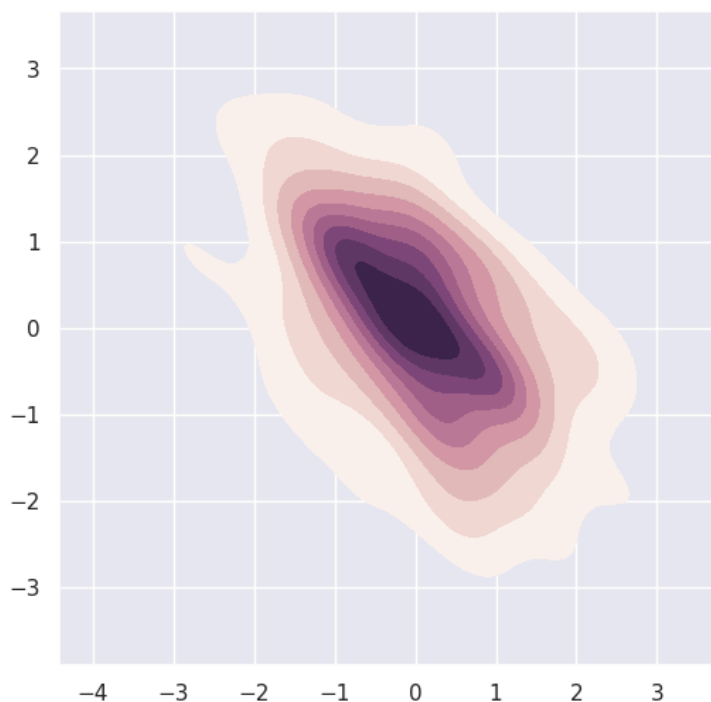


```python
x,y=np.random.multivariate_normal([0,0],[[1,-.5],[-.5,1]],size=300).T
sample_cmap=sns.cubehelix_palette(light=1, as_cmap=True)
sns.kdeplot(x=x,y=y,cmap=sample_cmap, shade=True)
```

```
<ipython-input-26-2e4dd5137875>: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: >
```
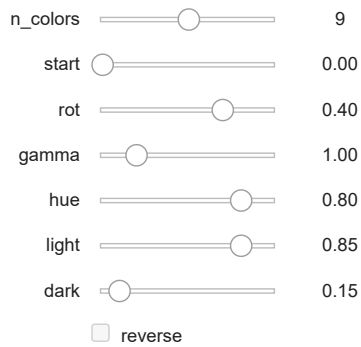


```python
sns.choose_cubehelix_palette(as_cmap=True)
```

n_colors   ══○══   9
start   ○══════   0.00
rot   ════○══   0.40
gamma   ══○════   1.00
hue   ═════○══   0.80
light   ══════○═   0.85
dark   ═○══════   0.15

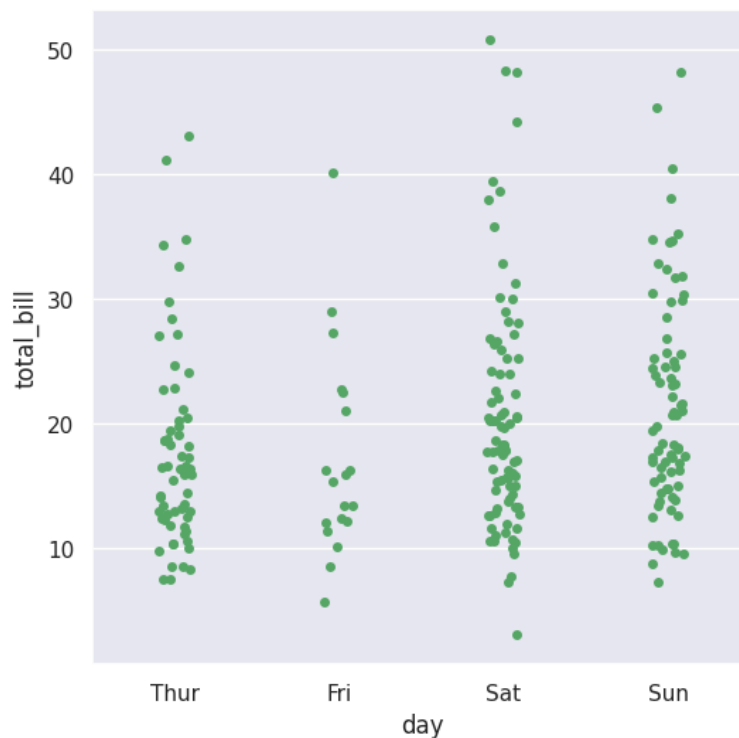☐ reverse

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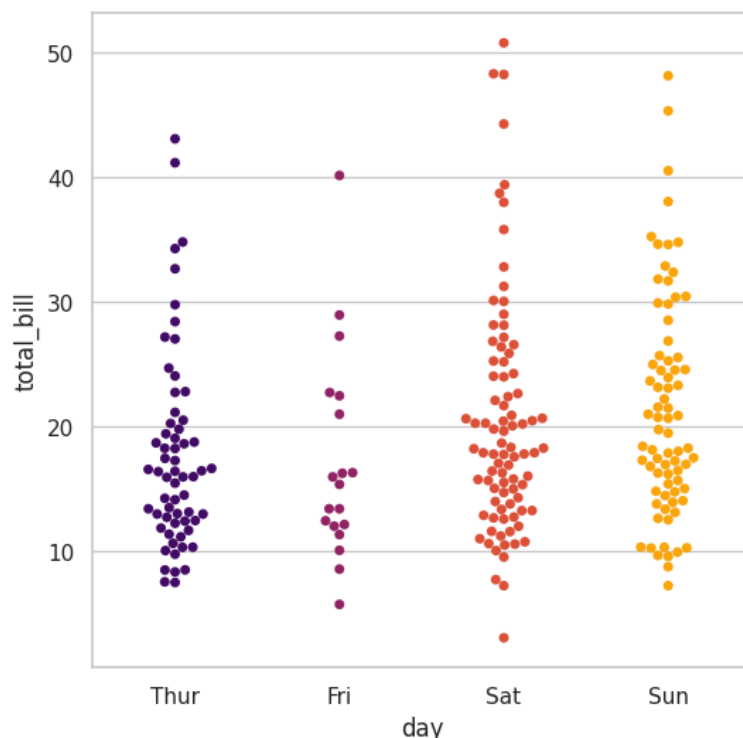
    <Axes: xlabel='day', ylabel='total_bill'>

```
sns.set_style('whitegrid')
```

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

```
<ipython-input-36-d01deb071e35>:1: FutureWarning:

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

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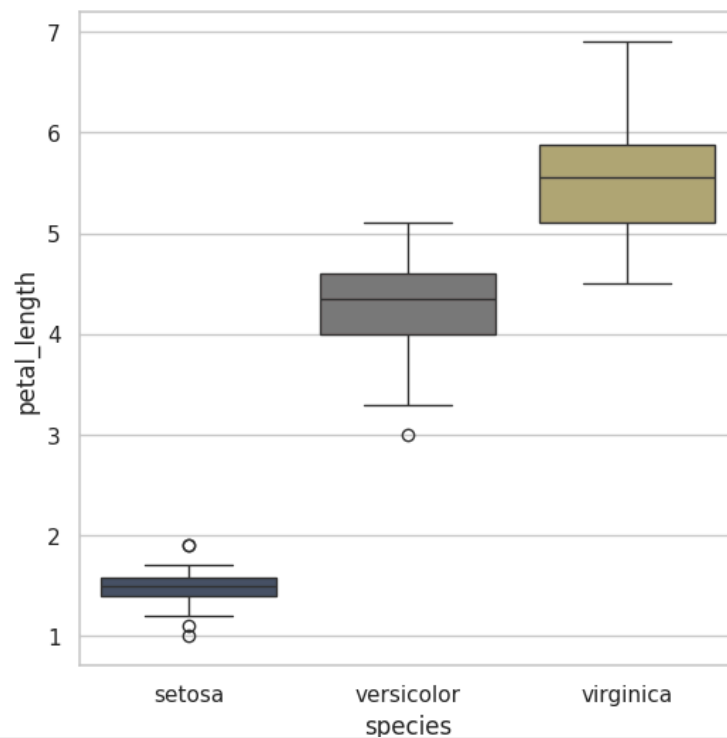


```
iris=sns.load_dataset("iris")
sns.boxplot(x="species",y="petal_length",data=iris,palette="cividis")
```

```
<ipython-input-37-cf3158b8d153>:2: FutureWarning:

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

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


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