

# How can the number of ticks in Seaborn plots be adjusted?

Authored by  
**stats writer**

May 6, 2024

## RECOMMENDED CITATION

stats writer (2024). *How can the number of ticks in Seaborn plots be adjusted?*.

PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=143355>

Seaborn is a popular data visualization library in Python that allows users to create visually appealing and informative plots. One of the key features of Seaborn is its ability to adjust the number of ticks on the x and y axes of a plot. Ticks are the small marks or labels on the axes that represent specific data points. To adjust the number of ticks in Seaborn plots, users can use the "set\_xticks" and "set\_yticks" functions and specify the desired number of ticks as a parameter. Additionally, users can also customize the tick labels and their spacing using the "set\_xticklabels" and "set\_yticklabels" functions. These functions provide users with the flexibility to fine-tune their plots and present data in a more precise and visually appealing manner.

## Adjust Number of Ticks in Seaborn Plots

You can use the following basic syntax to specify the positions and labels of axis ticks on plots:

**#specify x-axis tick positions and labels**

```
plt.xticks(, )
```

**#specify y-axis tick positions and labels**

```
plt.yticks(, )
```

The following examples show how to use this syntax in practice.

**Example 1: Set Axis Tick Positions**

The following code shows how to create a simple scatterplot using seaborn:

```
import pandas as pd
```

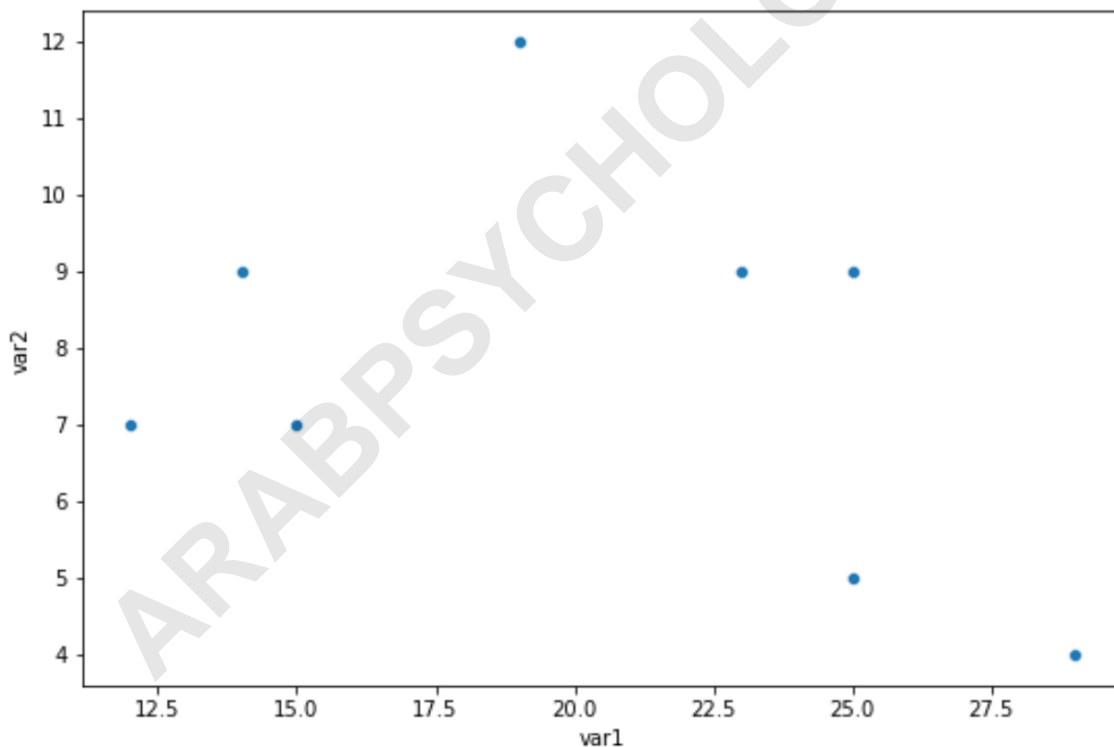
```
import matplotlib.pyplot as plt
import seaborn as sns
```

```
#create DataFrame
```

```
df = pd.DataFrame({'var1': ,
'var2': })
```

```
#create scatterplot
```

```
sns.scatterplot(data=df, x='var1', y='var2')
```



**By default, seaborn chooses an optimal number of ticks to display on both the x-axis and y-axis.**

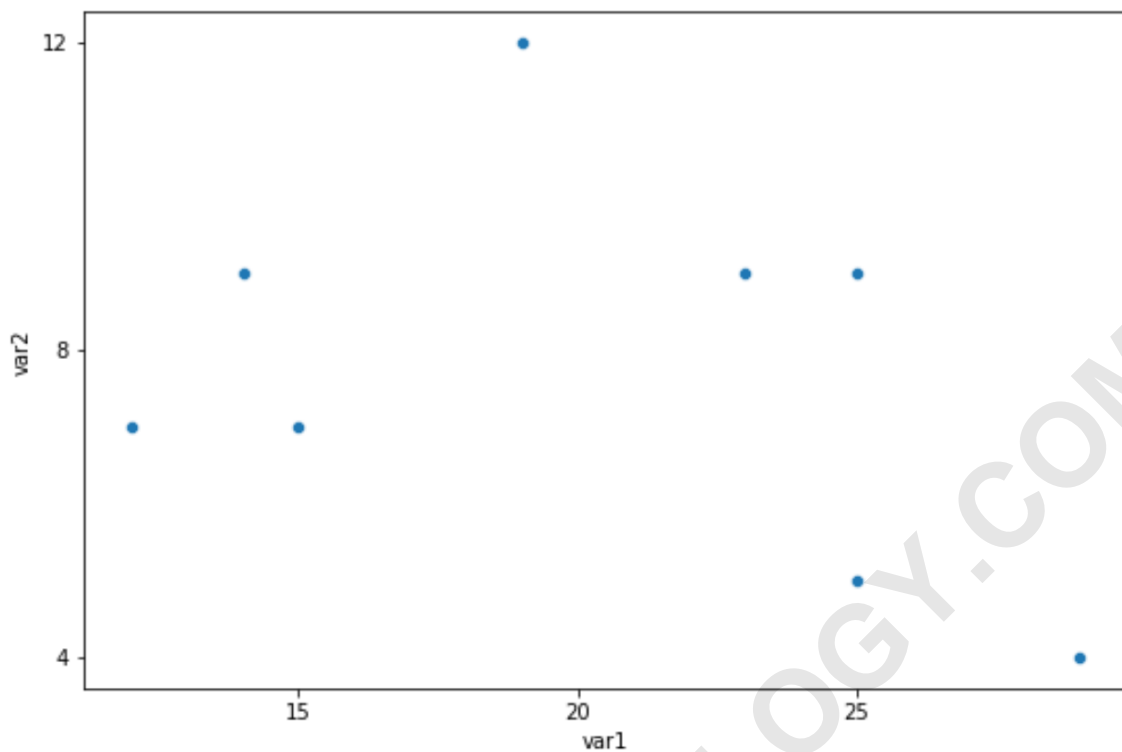
However, we can use the following code to specify the number of ticks and their exact positions on each axis:

```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns

#create DataFrame
df = pd.DataFrame({'var1': ,
'var2': })

#create scatterplot
sns.scatterplot(data=df, x='var1', y='var2')

#specify positions of ticks on x-axis and y-axis
plt.xticks()
plt.yticks()
```



### Example 2: Set Axis Tick Positions & Labels

The following code shows how to create a scatterplot and specify both the axis tick positions and the tick labels:

```
import pandas as pd
import matplotlib.pyplot as plt
import seaborn as sns
```

```
#create DataFrame
```

```
df = pd.DataFrame({'var1': ,
'var2': })
```

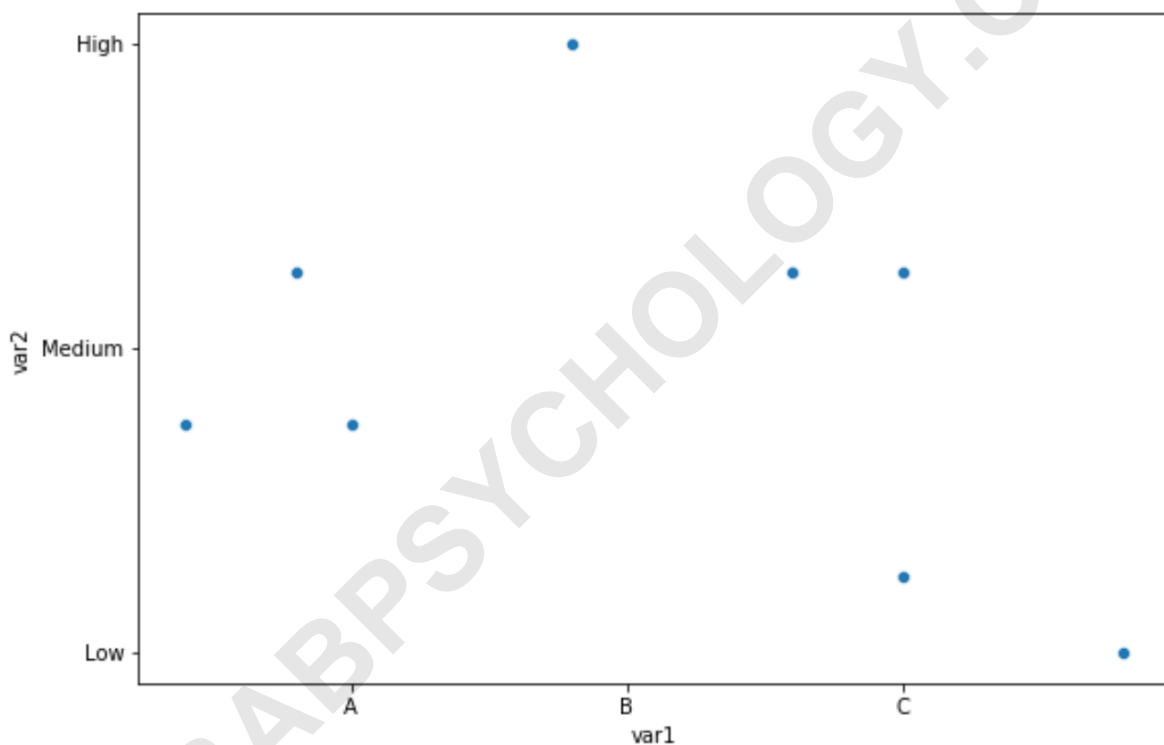
```
#create scatterplot
```

```
sns.scatterplot(data=df, x='var1', y='var2')
```

```
#specify positions of ticks on x-axis and y-axis
```

```
plt.xticks(, )
```

```
plt.yticks(, )
```



**Note: Refer to to see how to change just the axis labels.**