

# How can I change the figure size of a Pandas histogram?

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## RECOMMENDED CITATION

stats writer (2024). *How can I change the figure size of a Pandas histogram?*.  
PSYCHOLOGICAL SCALES. Retrieved from <https://scales.arabpsychology.com/?p=151521>

The process of changing the figure size of a Pandas histogram involves adjusting the dimensions of the visualization to better suit the desired display. This can be achieved by utilizing the "figsize" parameter within the "plot" function, which allows for customization of the width and height of the histogram. This enables the user to create a more visually appealing and informative representation of the data. By adjusting the figure size, one can effectively enhance the clarity and readability of the histogram, making it a valuable tool for data analysis and presentation.

## Change the Figure Size of a Pandas Histogram

You can use the `figsize` argument to change the figure size of a histogram created in pandas:

```
import matplotlib.pyplot as plt
```

```
#specify figure size (width, height)
```

```
fig = plt.figure(figsize=(8,3))
```

```
ax = fig.gca()
```

```
#create histogram using specified figure size
```

```
df.hist(ax=ax)
```

The following example shows how to use the `figsize` argument in practice.

**Example: How to Change Figure Size of Pandas Histogram**

**Suppose we have the following pandas DataFrame:**

```
import pandas as pd
```

```
#create DataFrame  
df = pd.DataFrame({'player': ,  
'points': })  
  
#view first five rows of DataFrame  
print(df.head())
```

```
player points
```

```
0 A 10
```

```
1 B 12
```

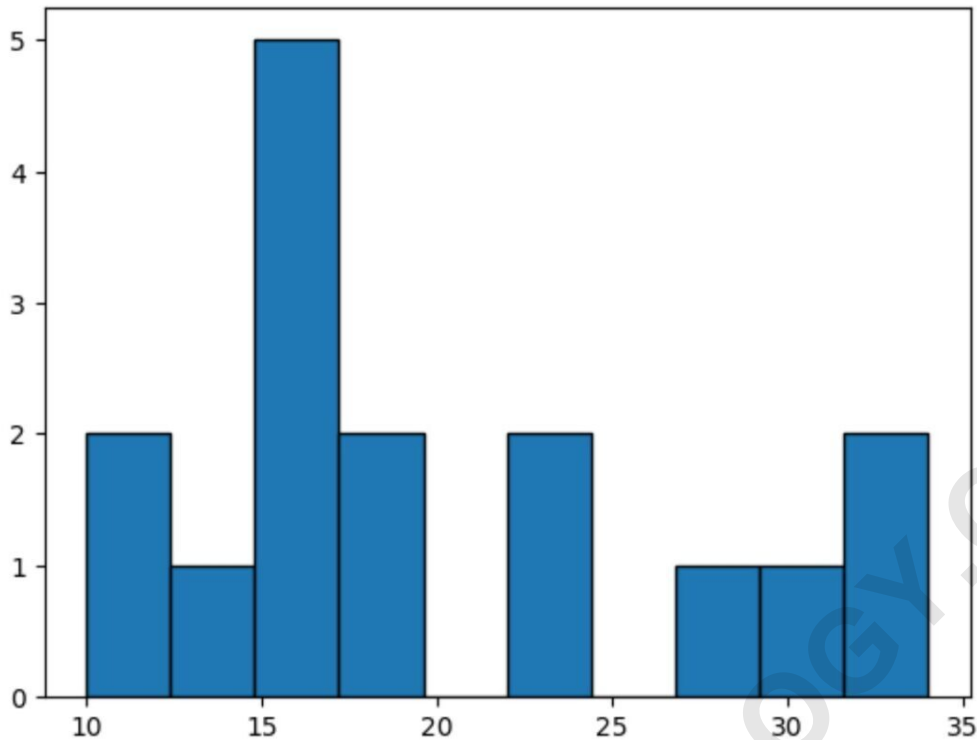
```
2 C 14
```

```
3 D 15
```

```
4 E 15
```

If we create a histogram for the points variable, pandas will automatically use 6.4 as the width of the figure and 4.8 as the height:

```
import matplotlib.pyplot as plt  
  
#create histogram for points variable  
df.hist(grid=False, edgecolor='black')
```



However, we can use the `figsize` argument to change the width and height of the figure:

```
import matplotlib.pyplot as plt
```

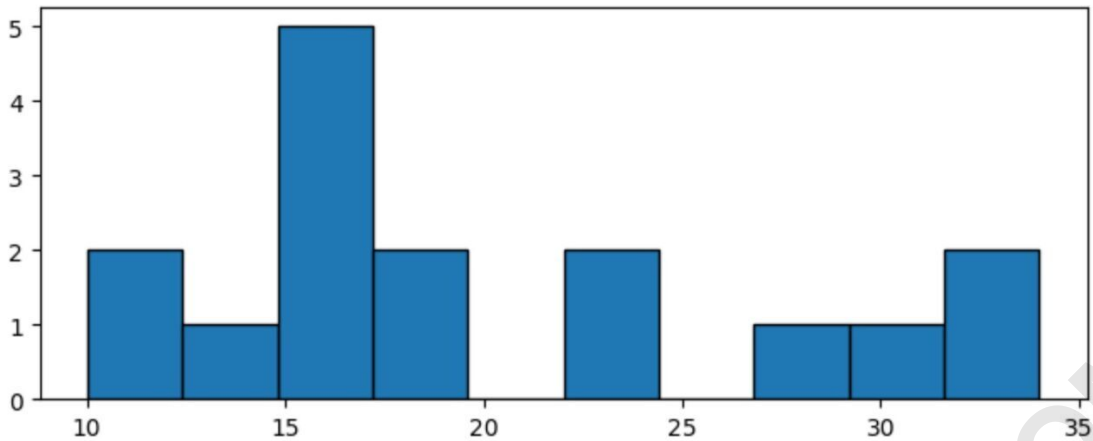
```
#specify figure size (width, height)
```

```
fig = plt.figure(figsize=(8,3))
```

```
ax = fig.gca()
```

```
#create histogram using specified figure size
```

```
df.hist(grid=False, edgecolor='black', ax=ax)
```



**This particular histogram has a width of 8 and a height of 3.**

**We can also use the figsize argument to create a figure that has a greater height than width:**

```
import matplotlib.pyplot as plt
```

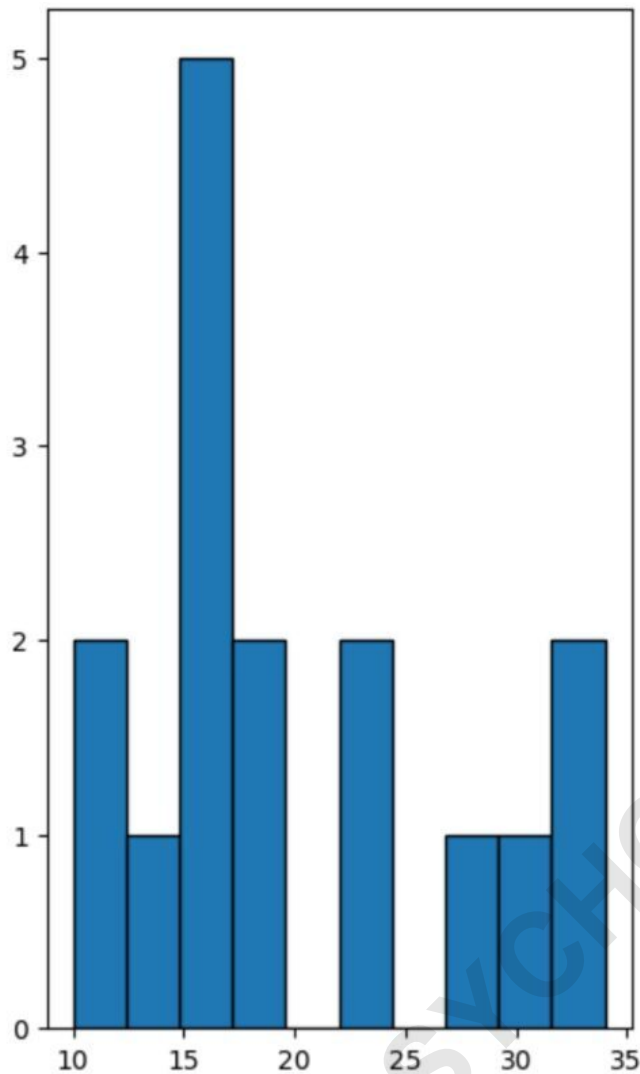
```
#specify figure size (width, height)
```

```
fig = plt.figure(figsize=(4,7))
```

```
ax = fig.gca()
```

```
#create histogram using specified figure size
```

```
df.hist(grid=False, edgecolor='black', ax=ax)
```



**This particular histogram has a width of 4 and a height of 7.**

**The following tutorials explain how to perform other common tasks in pandas:**