pandas.DataFrame.hist

DataFrame.hist(column=None, by=None, grid=True, xlabelsize=None, xrot=None, ylabelsize=None, yrot=None, ax=None, sharex=False, sharey=False, figsize=None, layout=None, bins=10, backend=None, legend=False, **kwargs) [source]

Make a histogram of the DataFrame's columns.

A histogram is a representation of the distribution of data. This function calls matplotlib.pyplot.hist(), on each series in the DataFrame, resulting in one histogram per column.

Parameters:

data: DataFrame

The pandas object holding the data.

column: str or sequence, optional

If passed, will be used to limit data to a subset of columns.

by: object, optional

If passed, then used to form histograms for separate groups.

grid: bool, default True

Whether to show axis grid lines.

xlabelsize: int, default None

If specified changes the x-axis label size.

xrot: float, default None

Rotation of x axis labels. For example, a value of 90 displays the x labels rotated 90 degrees clockwise.

ylabelsize: int, default None

If specified changes the y-axis label size.

yrot: float, default None

Rotation of y axis labels. For example, a value of 90 displays the y labels rotated 90

Skip to main content

ax: Matplotlib axes object, default None

The axes to plot the histogram on.

sharex: bool, default True if ax is None else False

In case subplots=True, share x axis and set some x axis labels to invisible; defaults to True if ax is None otherwise False if an ax is passed in. Note that passing in both an ax and sharex=True will alter all x axis labels for all subplots in a figure.

sharey: bool, default False

In case subplots=True, share y axis and set some y axis labels to invisible.

figsize: tuple, optional

The size in inches of the figure to create. Uses the value in *matplotlib.rcParams* by default.

layout : tuple, optional

Tuple of (rows, columns) for the layout of the histograms.

bins: int or sequence, default 10

Number of histogram bins to be used. If an integer is given, bins + 1 bin edges are calculated and returned. If bins is a sequence, gives bin edges, including left edge of first bin and right edge of last bin. In this case, bins is returned unmodified.

backend: str, default None

Backend to use instead of the backend specified in the option plotting.backend. For instance, 'matplotlib'. Alternatively, to specify the plotting.backend for the whole session, set pd.options.plotting.backend.

legend: bool, default False

Whether to show the legend.

**kwargs

All other plotting keyword arguments to be passed to | matplotlib.pyplot.hist() |.



Q

狟

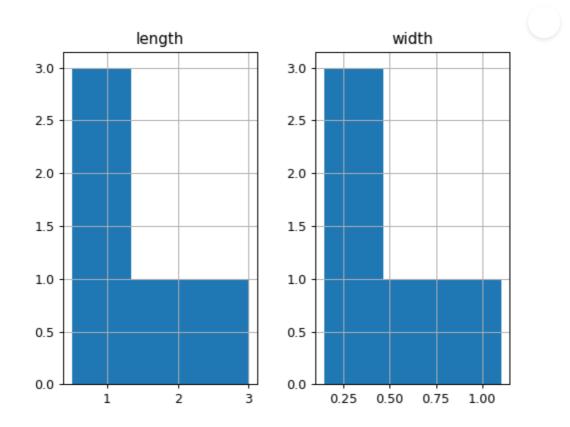


matplotlib.pyplot.hist

Plot a histogram using matplotlib.

This example draws a histogram based on the length and width of some animals, displayed in three bins

```
>>> df = pd.DataFrame({
    ... 'length': [1.5, 0.5, 1.2, 0.9, 3],
    ... 'width': [0.7, 0.2, 0.15, 0.2, 1.1]
    ... }, index=['pig', 'rabbit', 'duck', 'chicken', 'horse'])
>>> hist = df.hist(bins=3)
```



Previous pandas.DataFrame.head

pandas.DataFrame.idxmax

© 2023 pandas via NumFOCUS, Inc. Hosted by OVHcloud.

Created using Sphinx 6.2.1.

Built with the PyData Sphinx Theme 0.13.3.