

[Input/output](#)

[General functions](#)

[Series](#)

[DataFrame](#)

[pandas.DataFrame](#)

[pandas.DataFrame.index](#)

[pandas.DataFrame.columns](#)

[pandas.DataFrame.dtypes](#)

[pandas.DataFrame.select_dtypes](#)

[pandas.DataFrame.values](#)

[pandas.DataFrame.axes](#)

[pandas.DataFrame.ndim](#)

[pandas.DataFrame.size](#)

[pandas.DataFrame.shape](#)

[pandas.DataFrame.memory_usage](#)

[pandas.DataFrame.empty](#)

[pandas.DataFrame.astype](#)

[pandas.DataFrame.convert_dtype](#)

[pandas.DataFrame.infer_objects](#)

[pandas.DataFrame.copy](#)

[pandas.DataFrame.isna](#)

[pandas.DataFrame.notna](#)

[pandas.DataFrame.bool](#)

[pandas.DataFrame.head](#)

[pandas.DataFrame.at](#)

[pandas.DataFrame.iat](#)

[pandas.DataFrame.loc](#)

[pandas.DataFrame.iloc](#)

[pandas.DataFrame.insert](#)

[pandas.DataFrame.iter](#)

[pandas.DataFrame.items](#)

[pandas.DataFrame.iteritems](#)

[pandas.DataFrame.keys](#)

[pandas.DataFrame.iterrows](#)

[pandas.DataFrame.itertuples](#)

[pandas.DataFrame.lookup](#)

[pandas.DataFrame.pop](#)

[pandas.DataFrame.tail](#)

[pandas.DataFrame.xs](#)

[pandas.DataFrame.get](#)

[pandas.DataFrame.isin](#)

[pandas.DataFrame.where](#)

[pandas.DataFrame.mask](#)

[pandas.DataFrame.query](#)

[pandas.DataFrame.add](#)

pandas.DataFrame.plot

[\[source\]](#)

DataFrame.plot(*self*, *args, **kwargs)

Make plots of Series or DataFrame.

Uses the backend specified by the option `plotting.backend`. By default, matplotlib is used.

Parameters: **data** : *Series or DataFrame*

The object for which the method is called.

x : *label or position, default None*

Only used if data is a DataFrame.

y : *label, position or list of label, positions, default None*

Allows plotting of one column versus another. Only used if data is a DataFrame.

kind : *str*

The kind of plot to produce:

- 'line' : line plot (default)
- 'bar' : vertical bar plot
- 'barh' : horizontal bar plot
- 'hist' : histogram
- 'box' : boxplot
- 'kde' : Kernel Density Estimation plot
- 'density' : same as 'kde'
- 'area' : area plot
- 'pie' : pie plot
- 'scatter' : scatter plot
- 'hexbin' : hexbin plot.

figsize : *a tuple (width, height) in inches*

use_index : *bool, default True*

Use index as ticks for x axis.

title : *str or list*

Title to use for the plot. If a string is passed, print the string at the top of the figure. If a list is passed and *subplots* is True, print each item in the list above the corresponding subplot.

grid : *bool, default None (matlab style default)*

Axis grid lines.

legend : *bool or {'reverse'}*

Place legend on axis subplots.

style : *list or dict*

The matplotlib line style per column.

logx : *bool or 'sym', default False*

Use log scaling or symlog scaling on x axis. .. versionchanged:: 0.25.0

logy : *bool or 'sym' default False*

Use log scaling or symlog scaling on y axis. .. versionchanged:: 0.25.0

loglog : *bool or 'sym', default False*

Use log scaling or symlog scaling on both x and y axes. .. versionchanged:: 0.25.0

xticks : *sequence*

Values to use for the xticks.

yticks : *sequence*

Values to use for the yticks.

xlim : *2-tuple/list*

ylim : *2-tuple/list*

rot : *int, default None*

Rotation for ticks (xticks for vertical, yticks for horizontal plots).

fontsize : *int, default None*

Font size for xticks and yticks.

colormap : *str or matplotlib colormap object, default None*

Colormap to select colors from. If string, load colormap with that name from matplotlib.

colorbar : *bool, optional*

If True, plot colorbar (only relevant for ‘scatter’ and ‘hexbin’ plots).

position : *float*

Specify relative alignments for bar plot layout. From 0 (left/bottom-end) to 1 (right/top-end). Default is 0.5 (center).

table : *bool, Series or DataFrame, default False*

If True, draw a table using the data in the DataFrame and the data will be transposed to meet matplotlib’s default layout. If a Series or DataFrame is passed, use passed data to draw a table.

yerr : *DataFrame, Series, array-like, dict and str*

See [Plotting with Error Bars](#) for detail.

xerr : *DataFrame, Series, array-like, dict and str*

Equivalent to yerr.

mark_right : *bool, default True*

When using a secondary_y axis, automatically mark the column labels with “(right)” in the legend.

include_bool : *bool, default is False*

If True, boolean values can be plotted.

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`.

New in version 1.0.0.

****kwargs**

Options to pass to matplotlib plotting method.

Returns: [matplotlib.axes.Axes](#) or `numpy.ndarray` of them

If the backend is not the default matplotlib one, the return value will be the object returned by the backend.

Notes

- See matplotlib documentation online for more on this subject
- If *kind* = ‘bar’ or ‘barh’, you can specify relative alignments for bar plot layout by *position* keyword. From 0 (left/bottom-end) to 1 (right/top-end). Default is 0.5 (center)

[<< pandas.DataFrame.pivot_table](#)

[pandas.DataFrame.pop >>](#)