pandas.DataFrame.plot.line

```
DataFrame.plot.line(x=None, y=None, **kwargs)
```

[source

Plot Series or DataFrame as lines.

This function is useful to plot lines using DataFrame’s values as coordinates.

Parameters:

x : ***label or position, optional***

Allows plotting of one column versus another. If not specified, the index of the DataFrame is used.

y : ***label or position, optional***

Allows plotting of one column versus another. If not specified, all numerical columns are used.

color : ***str, array-like, or dict, optional***

The color for each of the DataFrame’s columns. Possible values are:

- **A single color string referred to by name, RGB or RGBA code,**

  for instance ‘red’ or ‘#a98d19’.

- **A sequence of color strings referred to by name, RGB or RGBA**

  code, which will be used for each column recursively. For instance [‘green’,’yellow’] each column’s line will be filled in green or yellow, alternatively. If there is only a single column to be plotted, then only the first color from the color list will be used.

- **A dict of the form {column name** : ***color}, so that each column will be***

  colored accordingly. For example, if your columns are called *a* and *b*, then passing {‘a’: ‘green’, ‘b’: ‘red’} will color lines for column *a* in green and lines for column *b* in red.

****kwargs**

Additional keyword arguments are documented in `DataFrame.plot()`.

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matplotlib.axes.Axes or np.ndarray of them

An ndarray is returned with one `matplotlib.axes.Axes` per column when `subplots=True`.

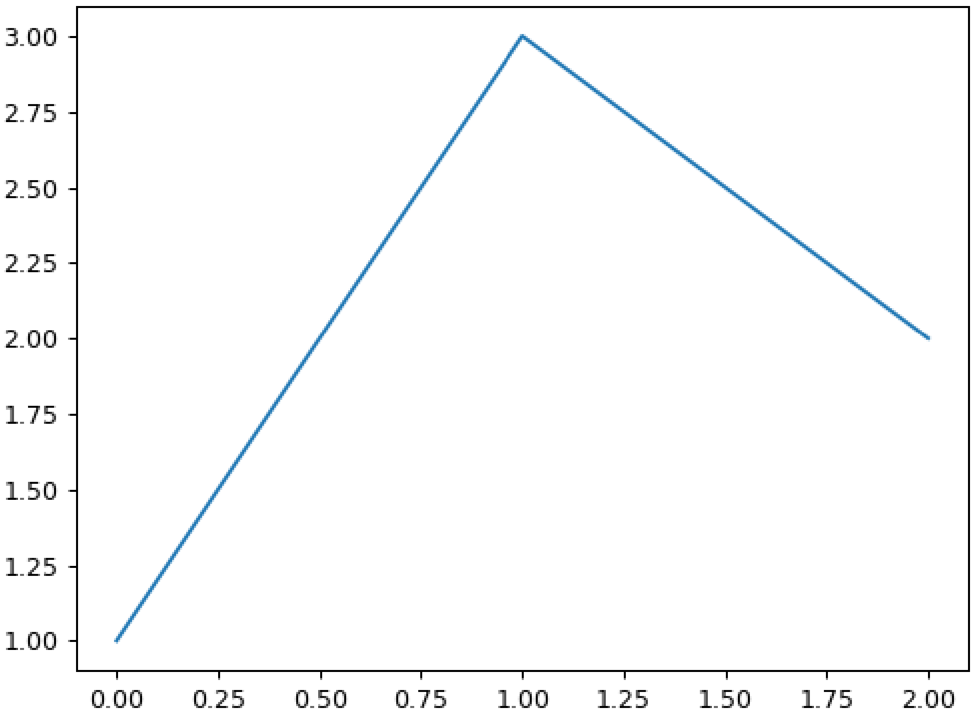
See also

`matplotlib.pyplot.plot`

Plot y versus x as lines and/or markers.

Examples

```
>>> s = pd.Series([1, 3, 2])
>>> s.plot.line()
```



```
>>> df = pd.DataFrame({
...     'pig': [20, 18, 489, 675, 1776],
...     'horse': [4, 25, 281, 600, 1900]
...     }, index=[1990, 1997, 2003, 2009, 2014])
>>> lines = df.plot.line()
```

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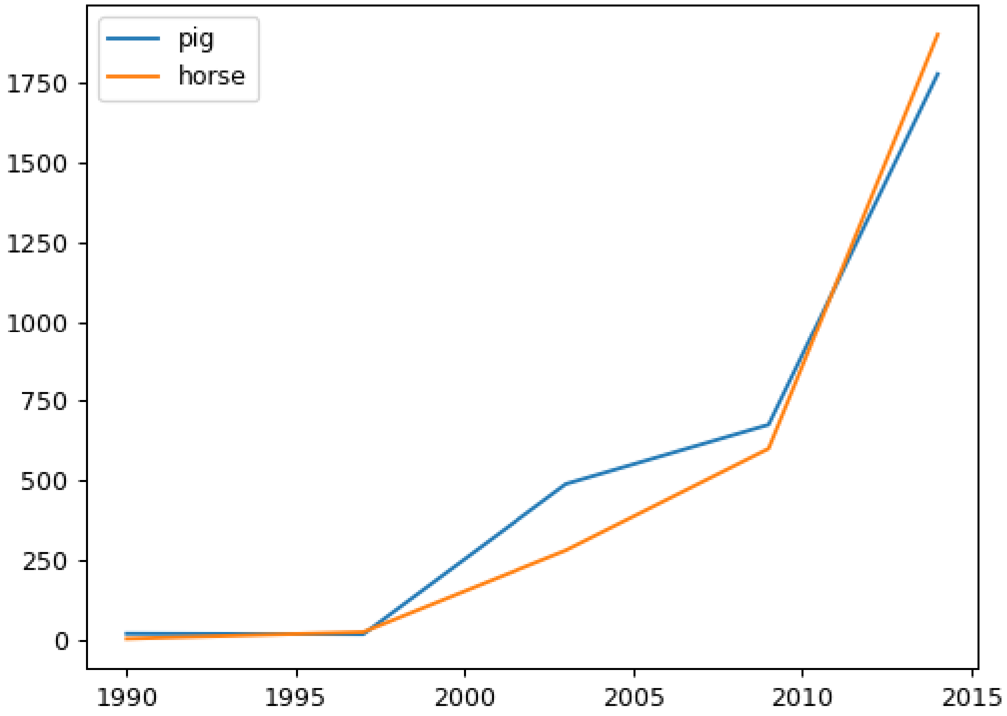

An example with subplots, so an array of axes is returned.

```
>>> axes = df.plot.line(subplots=True)
>>> type(axes)
<class 'numpy.ndarray'>
```

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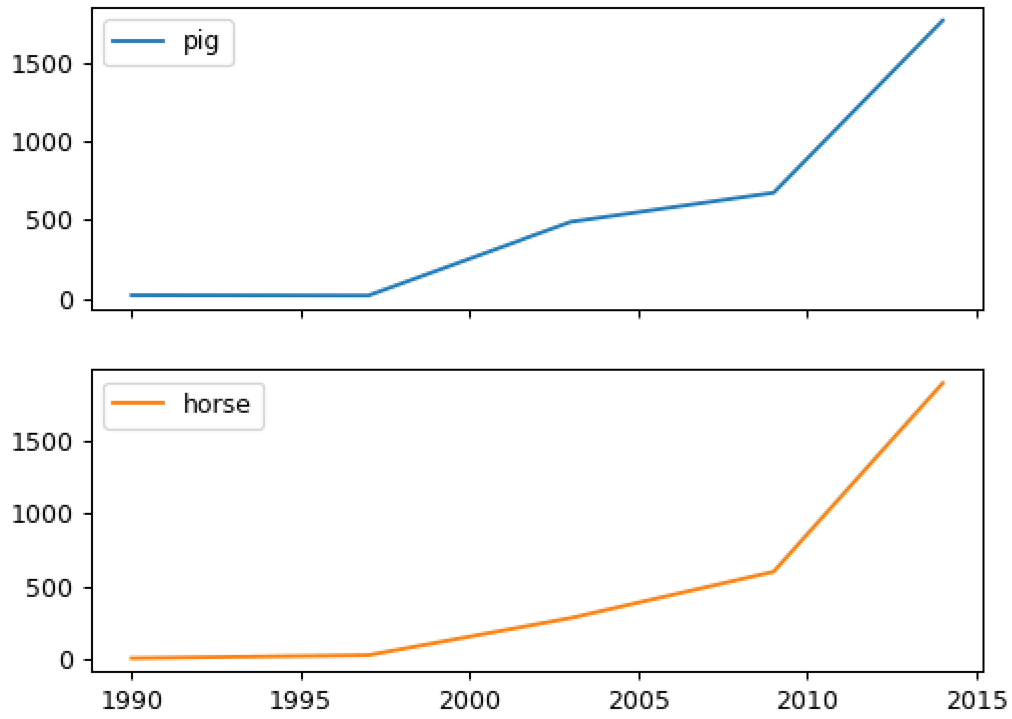

Let’s repeat the same example, but specifying colors for each column (in this case, for each animal).

```
>>> axes = df.plot.line(
...     subplots=True, color={"pig": "pink", "horse": "#742802"}
... )
```

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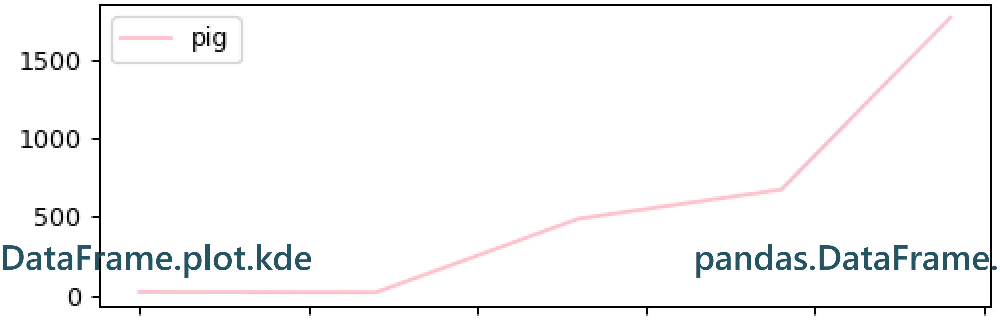

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