pandas.DataFrame.plot.area

`DataFrame.plot.area(x=None, y=None, stacked=True, **kwargs)` [source]

Draw a stacked area plot.

An area plot displays quantitative data visually. This function wraps the matplotlib area function.

Parameters:

x : *label or position, optional*

Coordinates for the X axis. By default uses the index.

y : *label or position, optional*

Column to plot. By default uses all columns.

stacked : *bool, default True*

Area plots are stacked by default. Set to False to create a unstacked plot.

****kwargs**

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

Returns:

matplotlib.axes.Axes or numpy.ndarray

Area plot, or array of area plots if subplots is True.

See also

`DataFrame.plot`

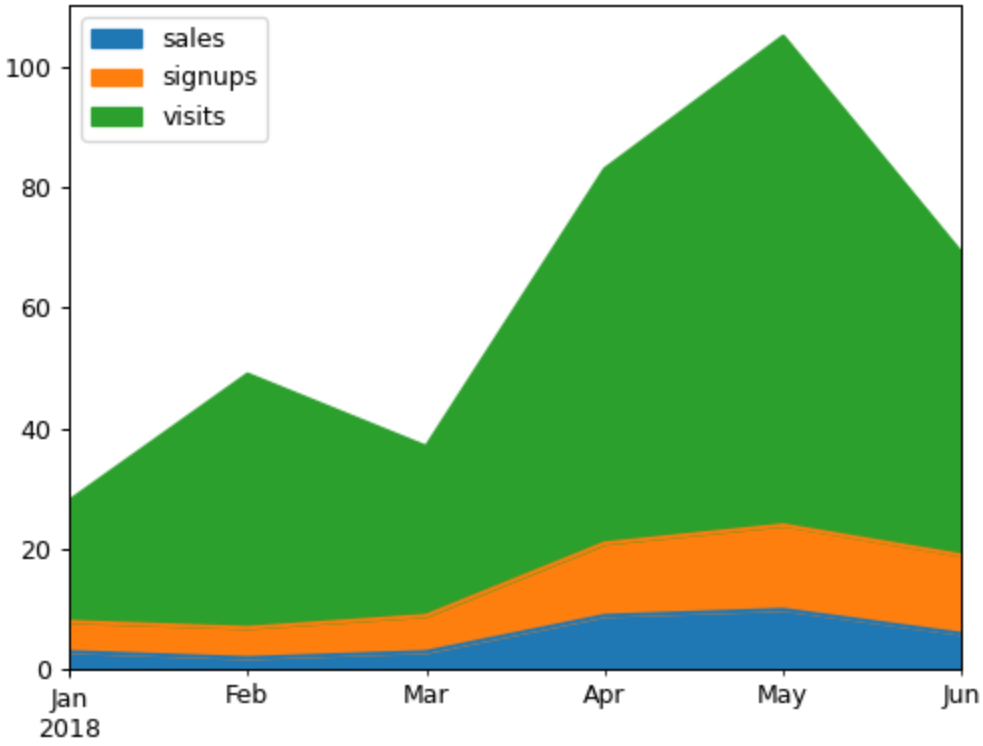
Make plots of DataFrame using matplotlib / pylab.

Examples

Draw an area plot based on basic business metrics:

```
>>> df = pd.DataFrame({
```

```
...     'signups': [5, 5, 6, 12, 14, 13],
...     'visits': [20, 42, 28, 62, 81, 50],
... }, index=pd.date_range(start='2018/01/01', end='2018/07/01',
...                        freq='M'))
>>> ax = df.plot.area()
```



Area plots are stacked by default. To produce an unstacked plot, pass `stacked=False`:

```
>>> ax = df.plot.area(stacked=False)
```

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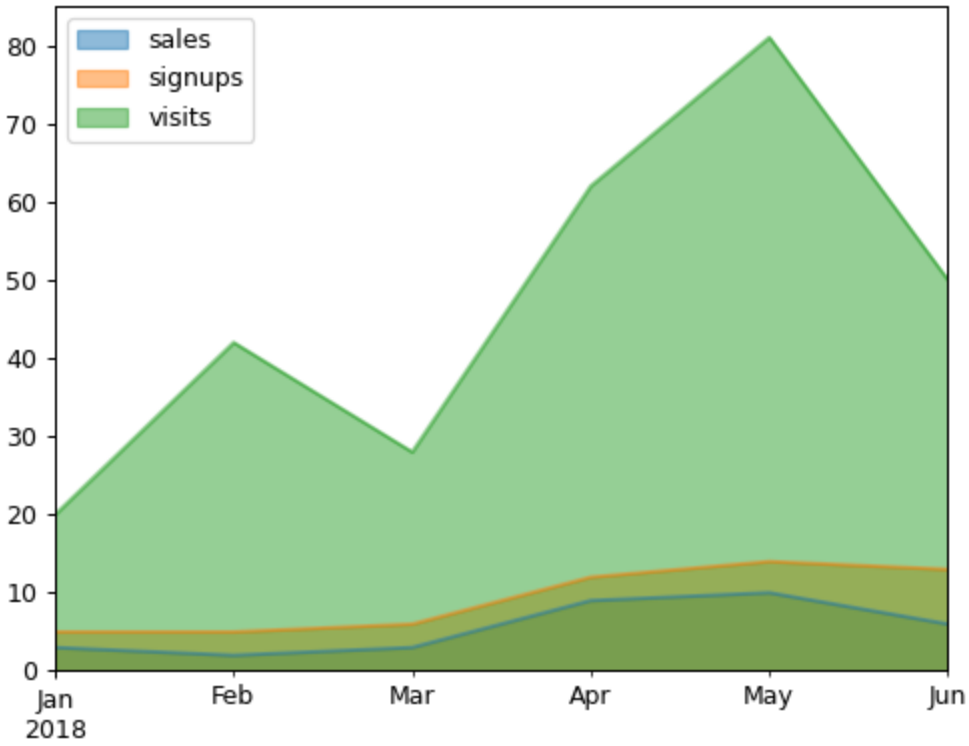
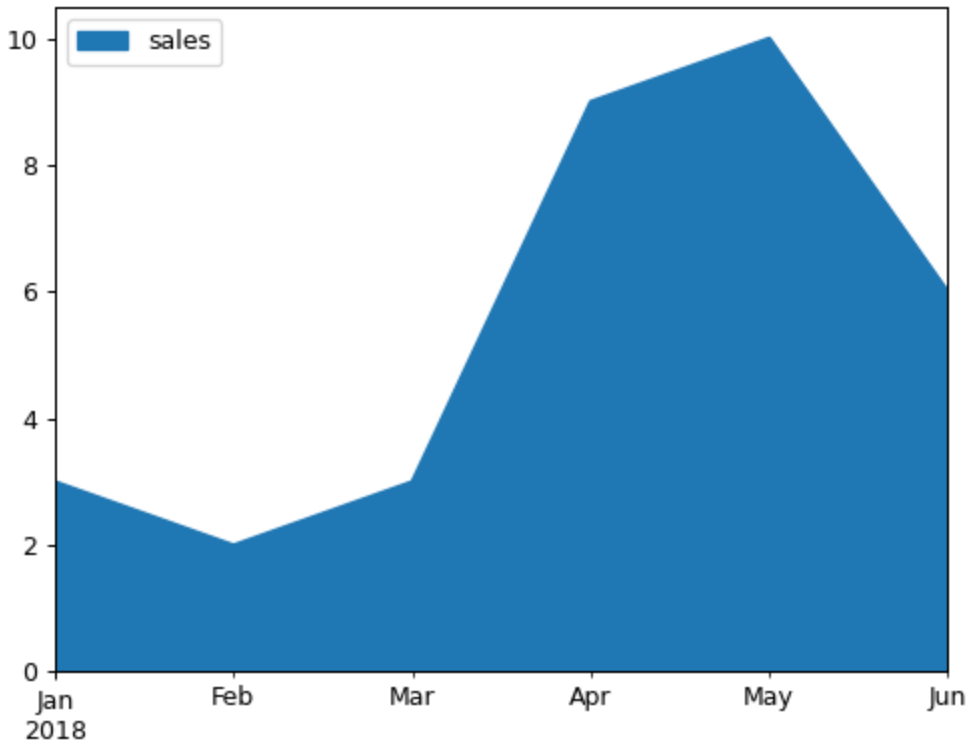


Draw an area plot for a single column:

```
>>> ax = df.plot.area(y='sales')
```



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Draw with a different *x*:

```
>>> df = pd.DataFrame({
...     'sales': [3, 2, 3],
...     'visits': [20, 42, 28],
...     'day': [1, 2, 3],
... })
>>> ax = df.plot.area(x='day')
```