

SIATKA PANDAS MATPLOTLIB

```
fig, axes = plt.subplots(nrows=2, ncols=2)
```

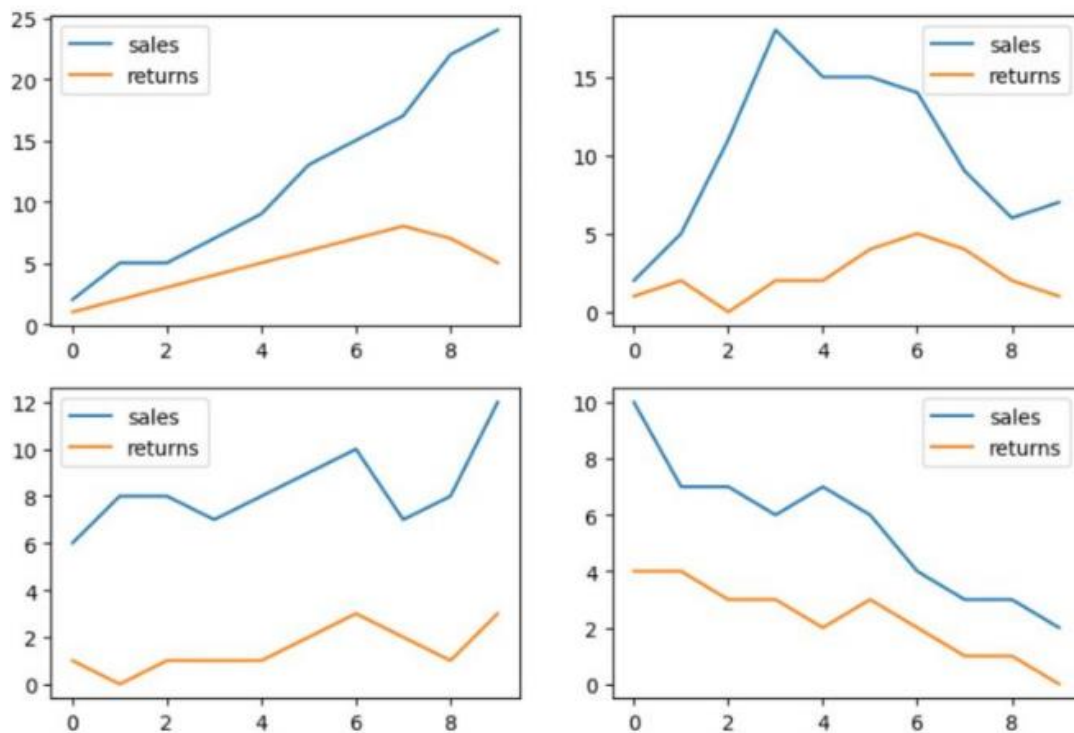
```
#add DataFrames to subplots
```

```
df1.plot(ax=axes[0,0])
```

```
df2.plot(ax=axes[0,1])
```

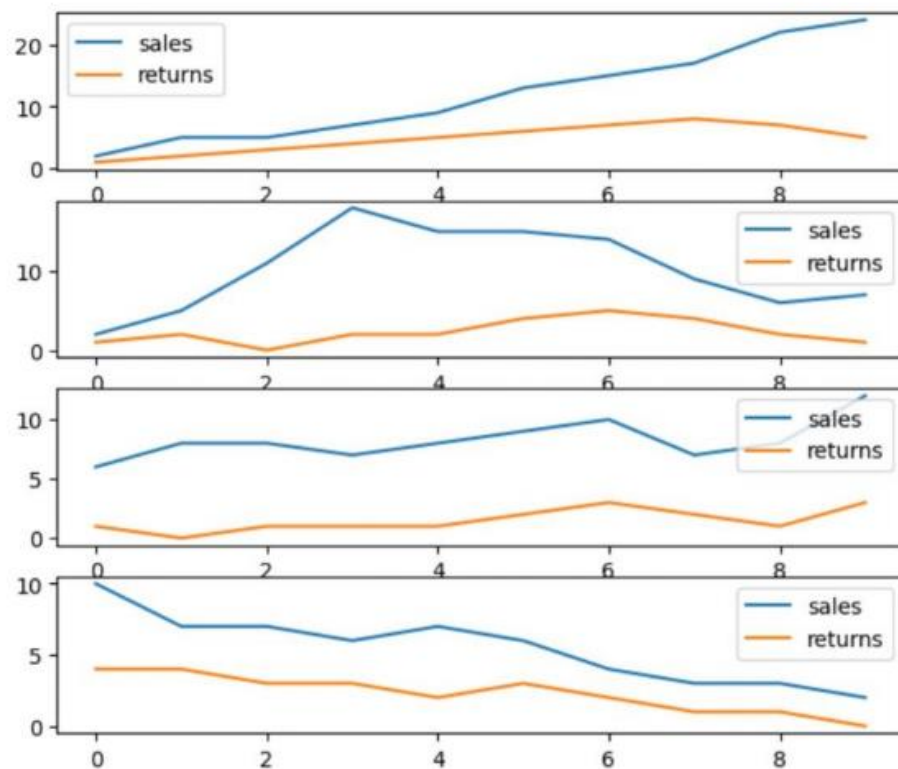
```
df3.plot(ax=axes[1,0])
```

```
df4.plot(ax=axes[1,1])
```



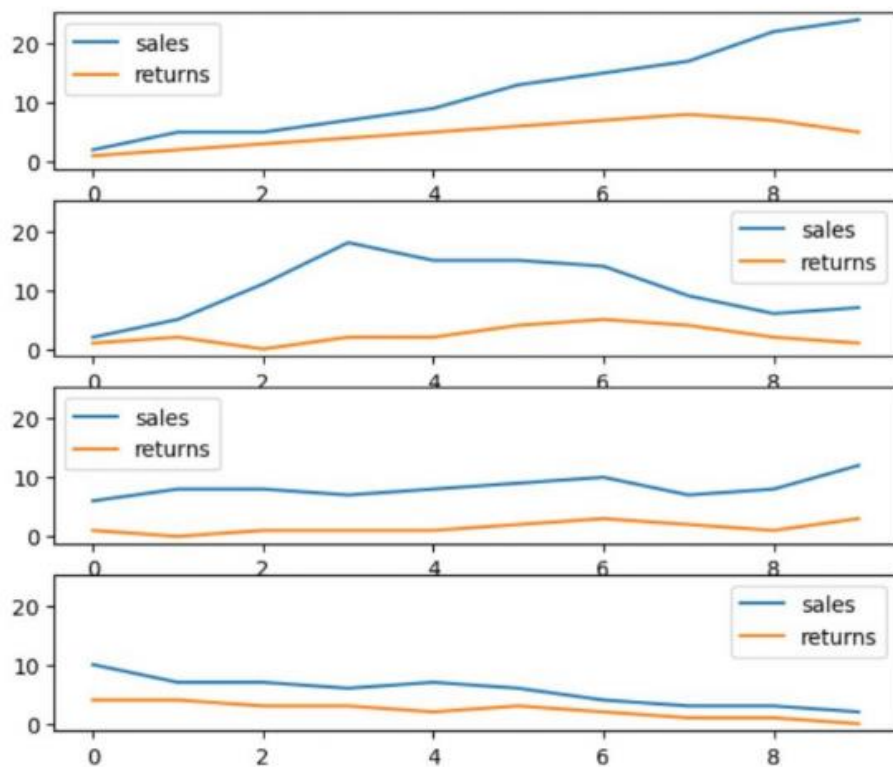
```
#define subplot layout
fig, axes = plt.subplots(nrows=4, ncols=1)

#add DataFrames to subplots
df1.plot(ax=axes[0])
df2.plot(ax=axes[1])
df3.plot(ax=axes[2])
df4.plot(ax=axes[3])
```



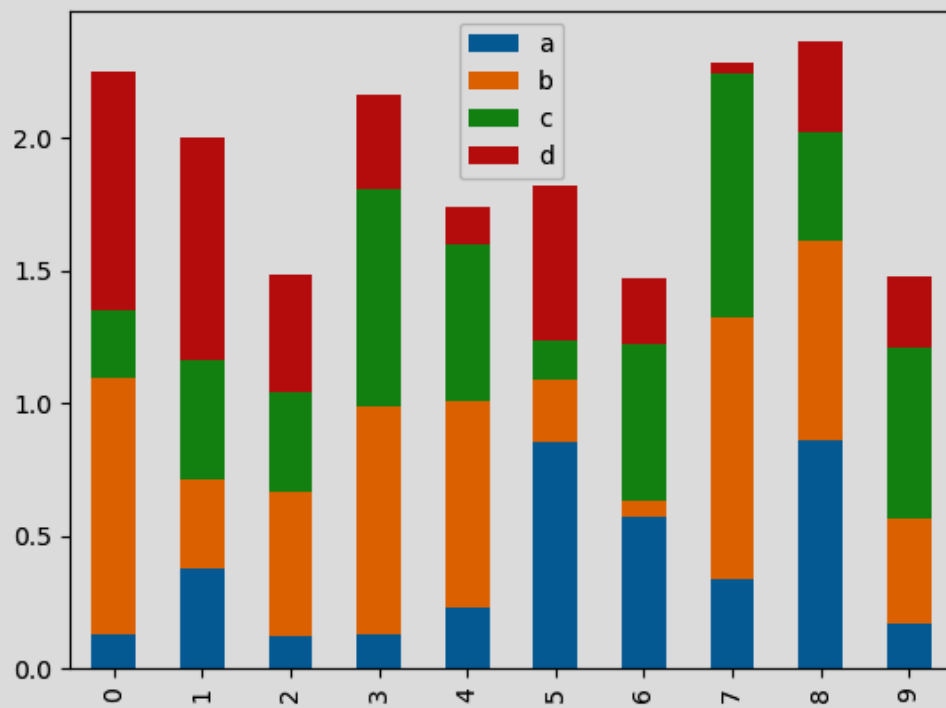
```
#define subplot layout, force subplots to have same y-axis scale
fig, axes = plt.subplots(nrows=4, ncols=1, sharey=True)

#add DataFrames to subplots
df1.plot(ax=axes[0])
df2.plot(ax=axes[1])
df3.plot(ax=axes[2])
df4.plot(ax=axes[3])
```



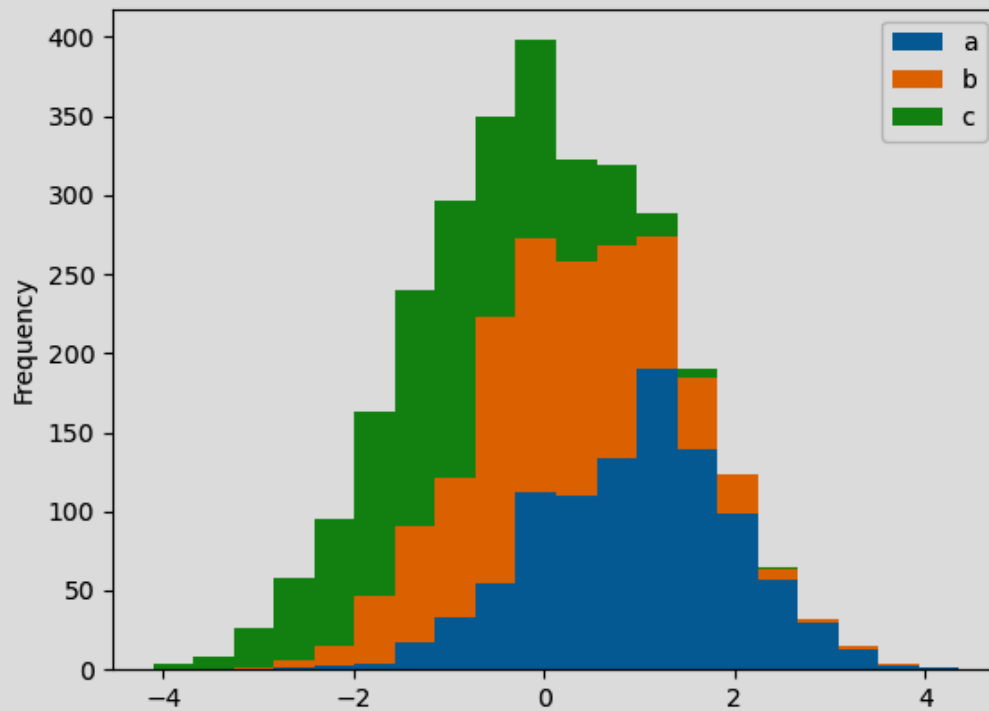
```
In [22]: df2.plot.bar(stacked=True);
```

>>>



```
In [27]: plt.figure();
```

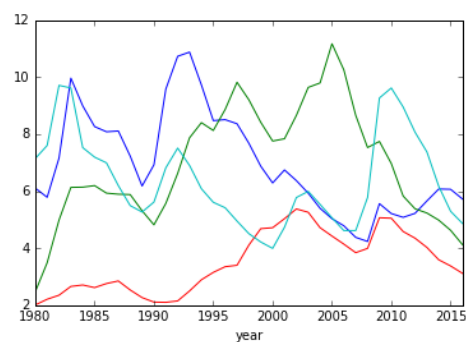
```
In [28]: df4.plot.hist(stacked=True, bins=20);
```



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

```
fig, ax = plt.subplots()
df.groupby('country').plot(x='year', y='unemployment', ax=ax, legend=False)
```

```
country
Australia  Axes(0.125,0.125;0.775x0.775)
Germany    Axes(0.125,0.125;0.775x0.775)
Japan      Axes(0.125,0.125;0.775x0.775)
USA        Axes(0.125,0.125;0.775x0.775)
dtype: object
```



```

fig = plt.figure()

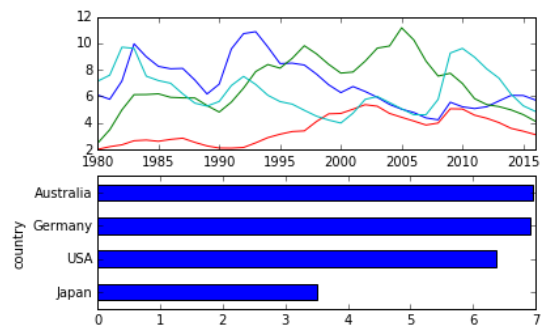
# Divide the figure into a 2x1 grid, and give me the first section
ax1 = fig.add_subplot(211)

# Divide the figure into a 2x1 grid, and give me the second section
ax2 = fig.add_subplot(212)

df.groupby('country').plot(x='year', y='unemployment', ax=ax1, legend=False)
df.groupby('country')['unemployment'].mean().sort_values().plot(kind='barh', ax=ax2)

```

<matplotlib.axes._subplots.AxesSubplot at 0x10ed2d1d0>



Base Colors

	b		c		k
	g		m		w
	r		y		

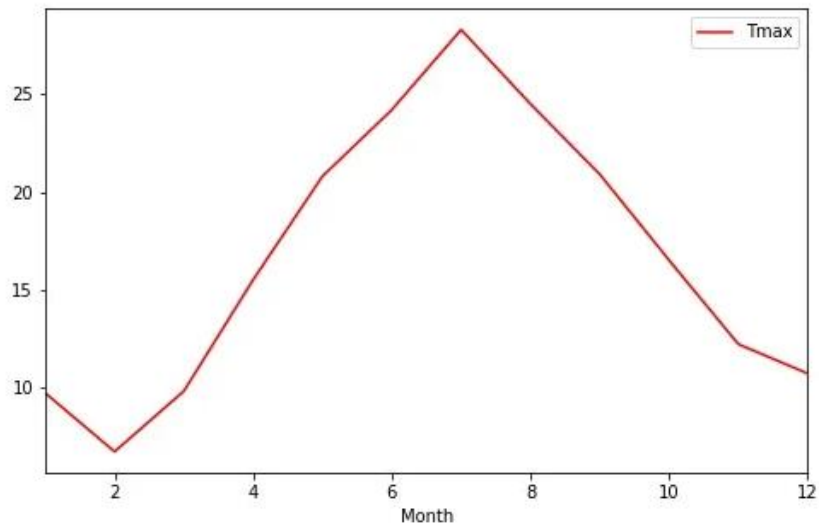
Tableau Palette

	tab:blue		tab:brown
	tab:orange		tab:pink
	tab:green		tab:gray
	tab:red		tab:olive
	tab:purple		tab:cyan

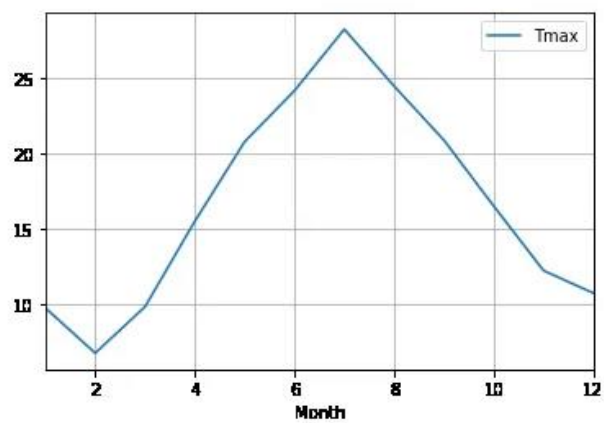
CSS Colors

	black		bisque		forestgreen		slategrey
	dimgray		darkorange		limegreen		lightsteelblue
	dimgrey		burlywood		darkgreen		cornflowerblue
	gray		antiquewhite		green		royalblue
	grey		tan		lime		ghostwhite
	darkgray		navajowhite		seagreen		lavender
	darkgrey		blanchedalmond		mediumseagreen		midnightblue
	silver		papayawhip		springgreen		navy
	lightgray		moccasin		mintcream		darkblue
	lightgrey		orange		mediumspringgreen		mediumblue
	gainsboro		wheat		mediumaquamarine		blue
	whitesmoke		oldlace		aquamarine		slateblue
	white		floralwhite		turquoise		darkslateblue
	snow		darkgoldenrod		lightseagreen		mediumslateblue
	rosybrown		goldenrod		mediumturquoise		mediumpurple
	lightcoral		cornsilk		azure		rebeccapurple
	indianred		gold		lightcyan		blueviolet
	brown		lemonchiffon		paleturquoise		indigo
	firebrick		khaki		darkslategray		darkorchid
	maroon		palegoldenrod		darkslategrey		darkviolet
	darkred		darkkhaki		teal		mediumorchid
	red		ivory		darkcyan		thistle
	mistyrose		beige		aqua		plum
	salmon		lightyellow		cyan		violet
	tomato		lightgoldenrodyellow		darkturquoise		purple
	darksalmon		olive		cadetblue		darkmagenta
	coral		yellow		powderblue		fuchsia
	orangered		olivedrab		lightblue		magenta

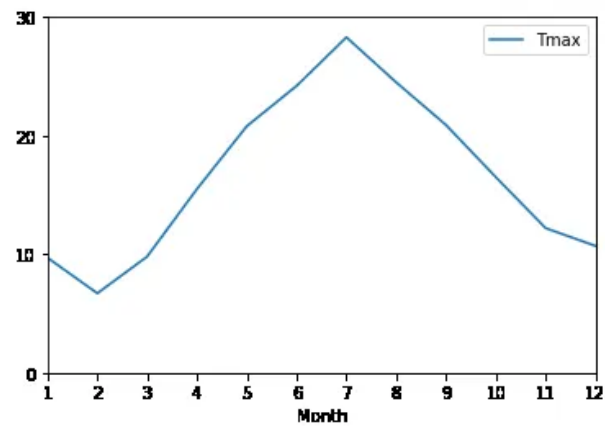
```
weather.plot(x='Month', y='Tmax', figsize=(8,5), color='Red')  
plt.show()
```



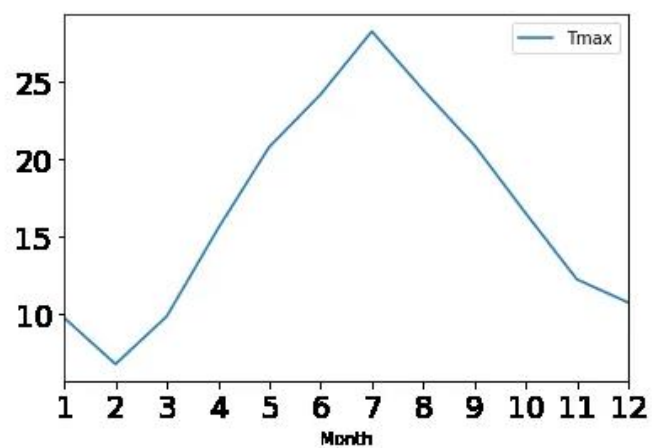
```
weather.plot(x='Month', y='Tmax', grid=True)  
plt.show()
```




```
weather.plot(x='Month', y='Tmax', xticks=range(1,13), yticks=
(0,10,20,30))
plt.show()
```



```
plot = weather.plot(x='Month', y='Tmax', xticks=range(1,13),
fontsize=18)
plt.show()
```



```
weather.plot.scatter(y='Tmax',x='Month', legend=True, label="Min  
Temperature", **plot_kwargs)  
plt.show()
```

