More-Pandas-Visualization-Tricks

October 19, 2022

# 1 Additional Pandas Visualization Tricks

```
[1]: # RUN THIS CELL
     import pandas as pd
     %matplotlib inline

     df2 = pd.read_csv('../03-Pandas-Visualization/df2.csv')
```

1.1 Quickly add one axis label

We mentioned that although we can pass a title into the pandas .plot() function, we can't pass axis labels this way. However, we can quickly add a label to either the x- or y-axis by running a .set_xlabel() or .set_ylabel() method:

```
[2]: df2.plot(figsize=(8,3), title='Custom Pandas Plot').set_xlabel('X-axis data');
```
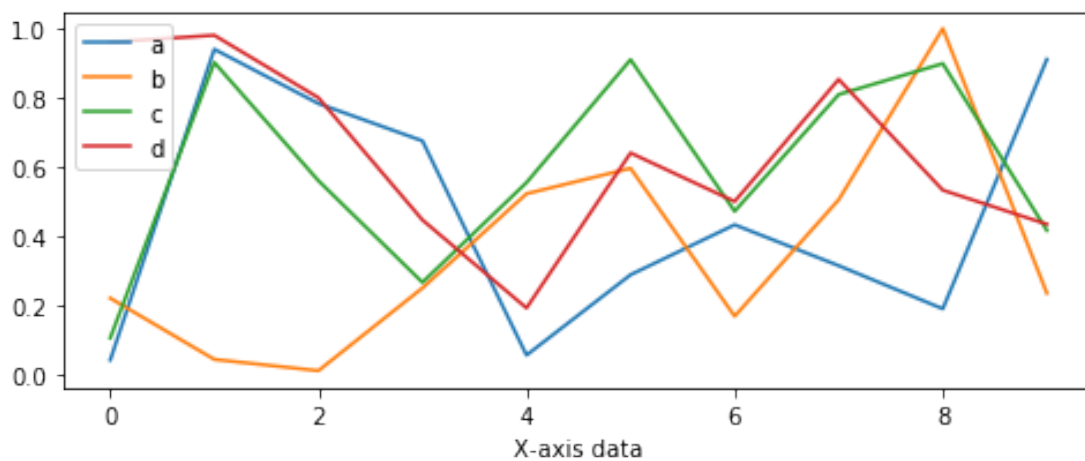
Custom Pandas Plot
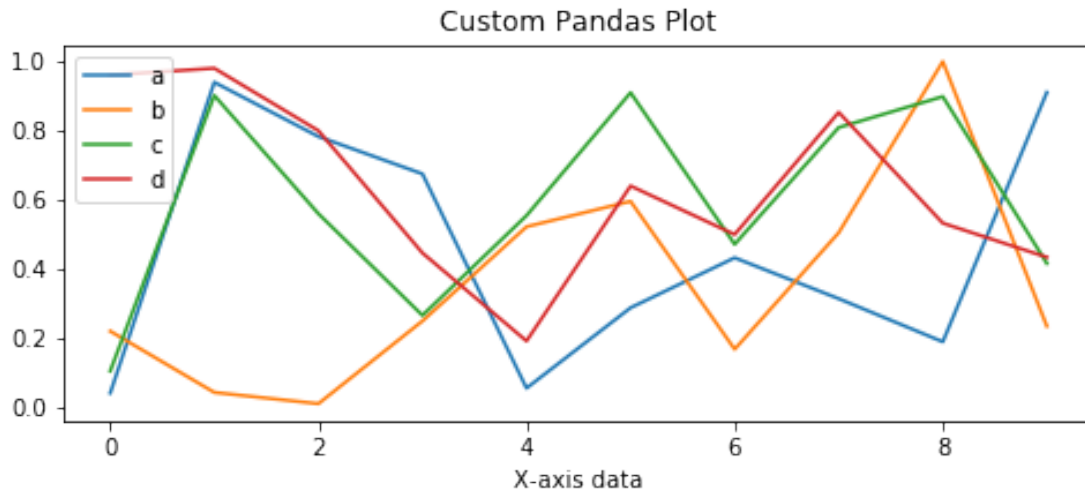
Unfortunately, we can't add both labels this way:

```
[3]: df2.plot(figsize=(8,3)).set_xlabel('X-axis data').set_ylabel('Y-axis data');
```

```
---------------------------------------------------------------------------
AttributeError                            Traceback (most recent call last)
<ipython-input-3-b6e630b6c14f> in <module>
----> 1 df2.plot(figsize=(8,3)).set_xlabel('X-axis data').set_ylabel('Y-axis
  →data');

AttributeError: 'Text' object has no attribute 'set_ylabel'
```
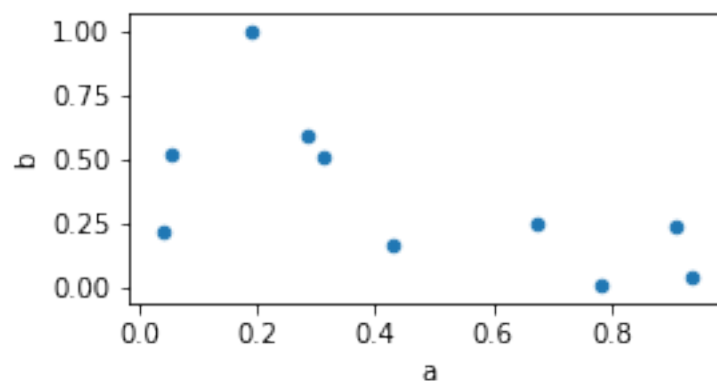
1.2 Remove unwanted axis labels

Sometimes pandas automatically places the column name as an x or y axis label. To remove them we can call the label on the axis object and set_visible to False. Alternatively, we can simply pass in empty strings as labels.
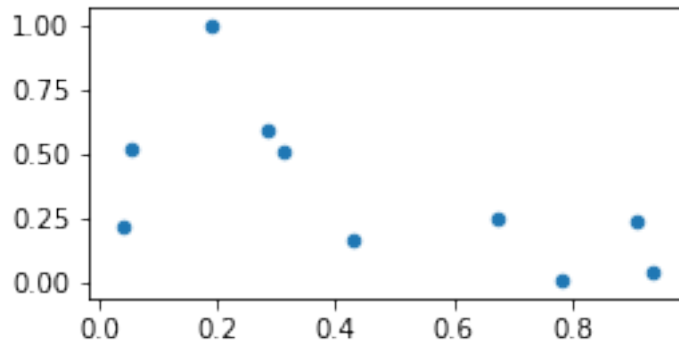
```
[4]: df2.plot.scatter(x='a',y='b',figsize=(4,2));
```



```
[5]: ax = df2.plot.scatter(x='a',y='b',figsize=(4,2))
     ax.xaxis.get_label().set_visible(False)
     ax.yaxis.get_label().set_visible(False)
```
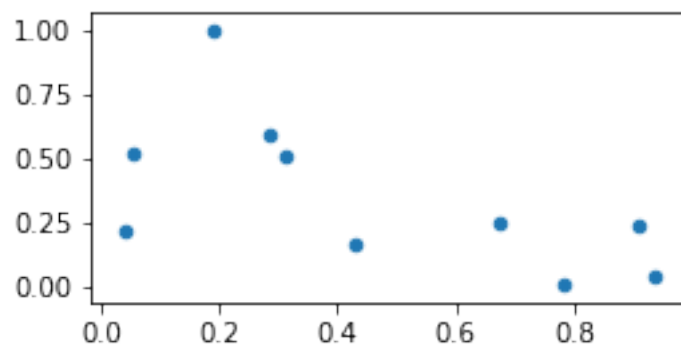


```
[6]: # ALTERNATIVELY:
     ax = df2.plot.scatter(x='a',y='b',figsize=(4,2))
     ax.set(xlabel='', ylabel='');
```
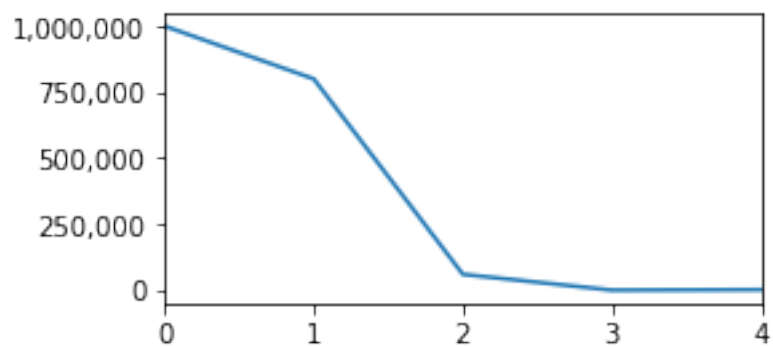
1.3 Adding commas to y-axis values

```
[11]: import matplotlib.ticker as ticker
      formatter = ticker.StrMethodFormatter('{x:,.0f}')


      df=pd.DataFrame([1000000,800000,60000,200,2000],index=range(5))


      ax = df.plot(figsize=(4,2),legend=False)
      ax.autoscale(axis='x',tight=True)
      ax.set(xlabel='', ylabel='')
      ax.yaxis.set_major_formatter(formatter);
```

1.4 Adding dollar signs to y-axis values

```python
import matplotlib.ticker as ticker
formatter = ticker.FormatStrFormatter('$%1.2f')

df=pd.DataFrame([10,3.5,.4,7.5,9.1],index=range(5))

ax = df.plot(figsize=(4,2),legend=False)
ax.autoscale(axis='x',tight=True)
ax.set(xlabel='', ylabel='price')
ax.yaxis.set_major_formatter(formatter);
```