

Applied Data Analytics

Visualisations with plotly

Introduction to plotly

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Frontends, backends, leaky abstractions

- Frontend: The user-facing part
- Backend: The part that does the work
- Leaky abstraction: The user needs to know about the backend

Plotting Series

- Frontend: Pandas
- Backend: Plotly
- Leaky abstraction: Many customisation options you'll find on the web are specific to the (default) matplotlib backend

Setting plotly as the plotting backend

```
import pandas as pd  
pd.options.plotting.backend = "plotly"
```

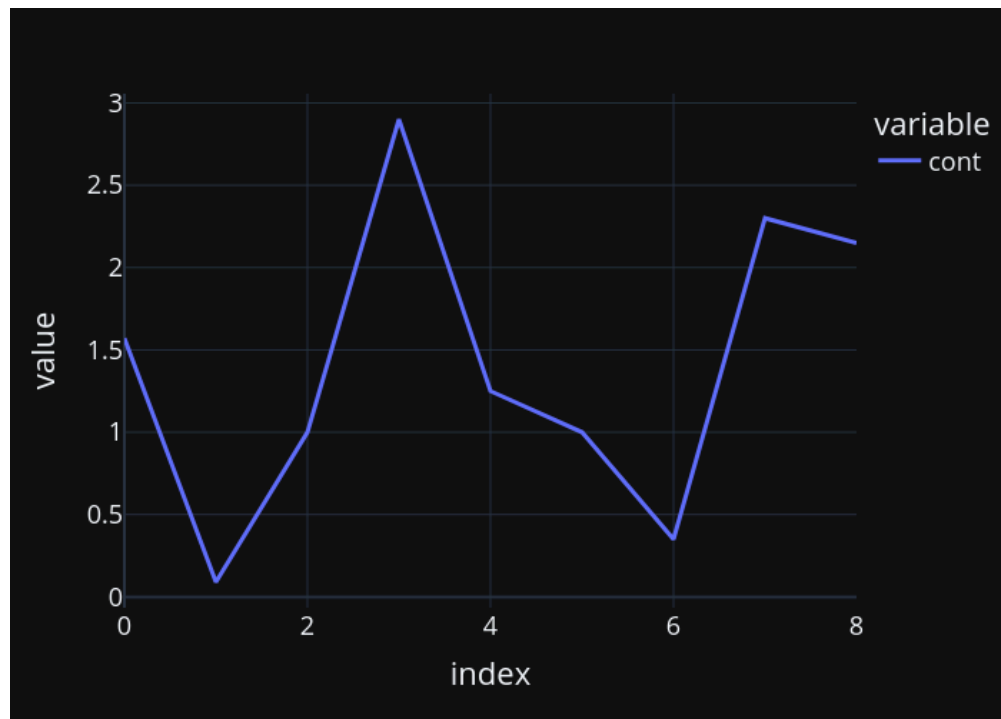
Just in case you wonder why you find this code in notebooks we provide

Example series

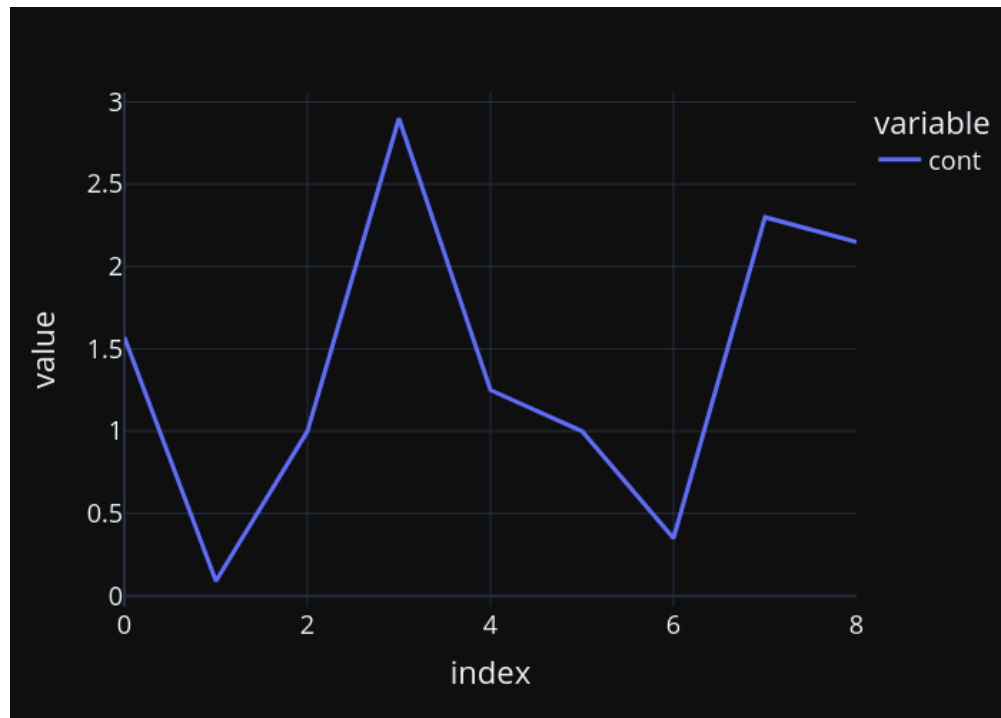
```
[1] continuous = pd.Series(  
    [  
        1.57,  
        0.09,  
        1,  
        2.9,  
        1.25,  
        1,  
        0.35,  
        2.3,  
        2.15  
    ],  
    name="cont"  
)
```

```
[2] continuous  
[2] 0    1.57  
    1    0.09  
    2    1.00  
    3    2.90  
    4    1.25  
    5    1.00  
    6    0.35  
    7    2.30  
    8    2.15  
    Name: cont, dtype: float64
```

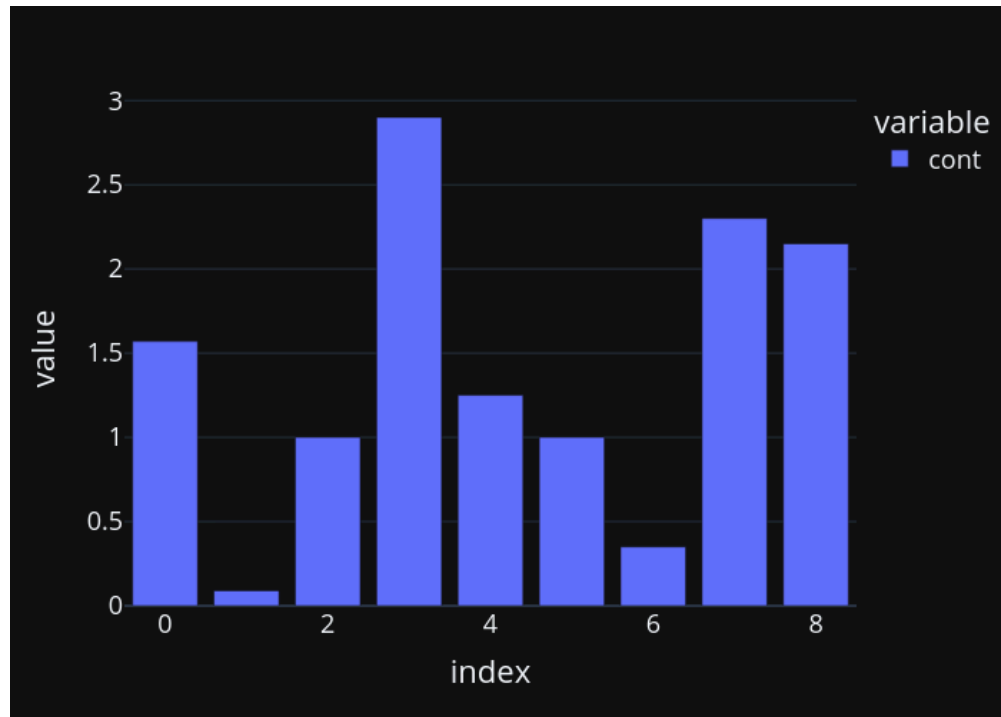
`continuous.plot()`



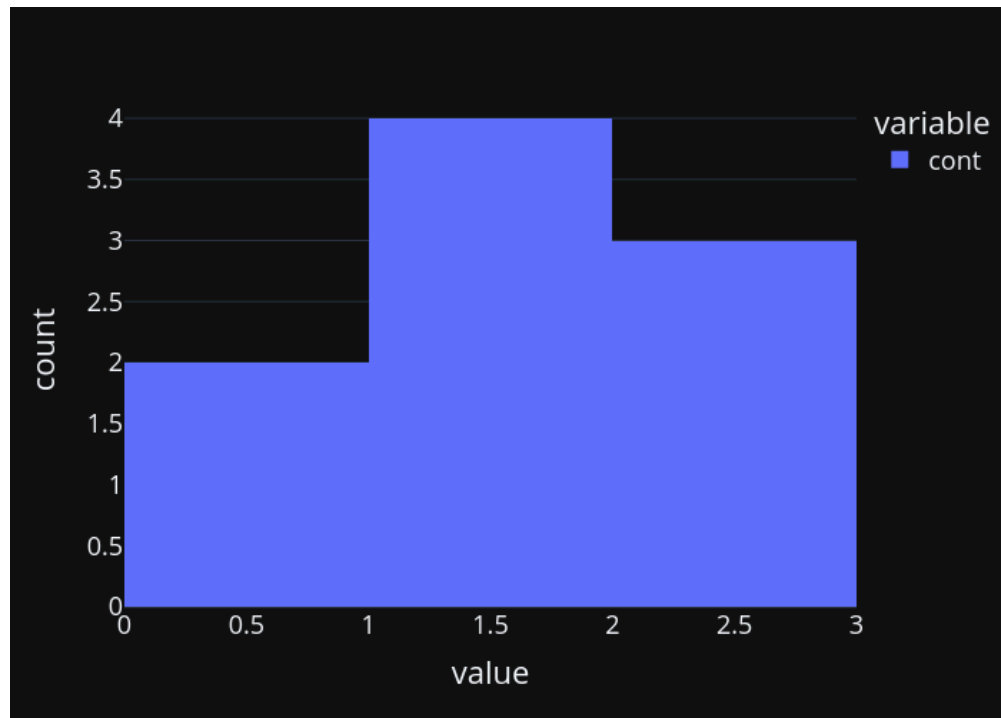
`continuous.plot.line()`



`continuous.plot.bar()`




```
continuous.plot.hist()
```



```
continuous.plot.hist(nbins=100)
```

