### **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

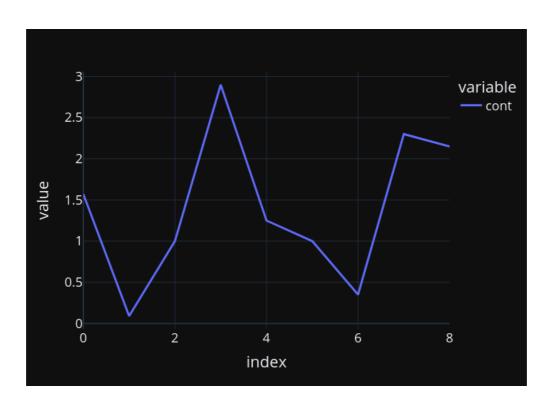
```
import pandas as pd
pd.options.plotting.backend = "plotly"
```

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

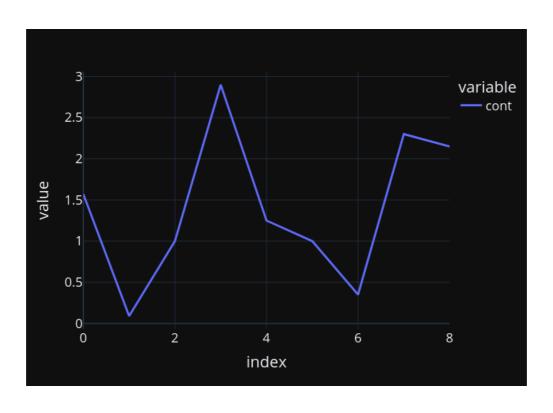
### **Example series**

```
[1] continuous = pd.Series(
                                      continuous
                                           1.57
           1.57,
                                           0.09
            0.09,
                                          1.00
                                           2.90
            2.9,
                                           1.25
            1.25,
                                          1.00
                                           0.35
            0.35,
                                           2.30
            2.3,
                                           2.15
            2.15
                                      Name: cont, dtype: float64
       name="cont"
```

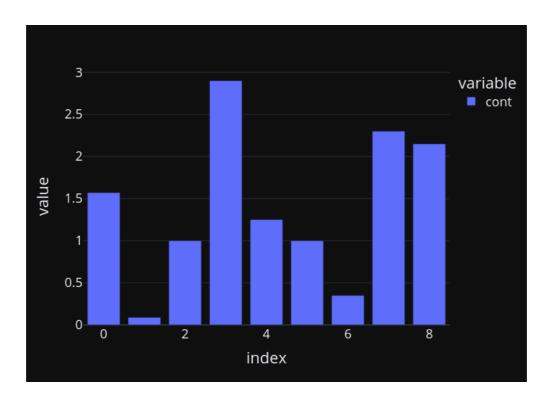
#### continuous.plot()



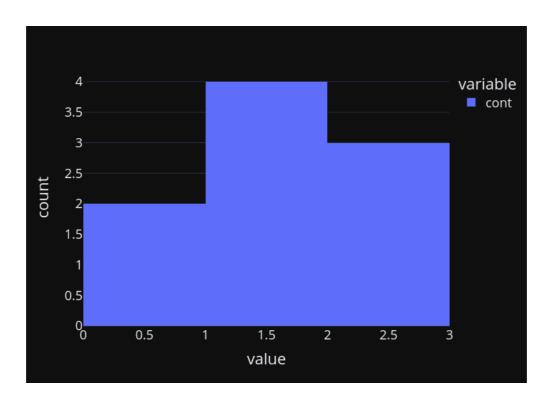
#### continuous.plot.line()



#### continuous.plot.bar()



#### continuous.plot.hist()



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

