Data Visualization

HANDS-ON VISUALIZATIONS IN PYTHON

Required Python libraries

We will be using the libraries Plotly and Dash within a Jupyter notebook

- numpy==1.19.3 (1.19.4 does not work on Windows)

- pandas==1.2.0

- plotly==4.14.1

- ipywidgets==7.6.2

- dash==1.18.1

- jupyterlab==2.2.1 (newer versions do not work with dash)

- jupyter-dash==0.3.1

- pywin32==228 (on Windows, needs to be installed via conda)

Installation

Create a new Conda environment and install the packages as shown below (example working on Windows 10)
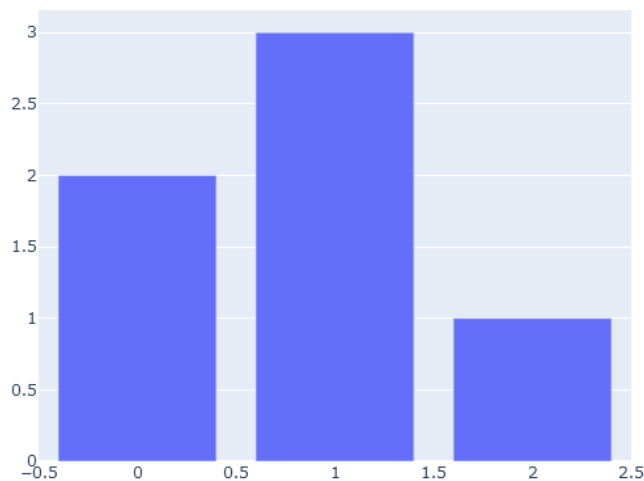
```
conda create --name py38viz python=3.8

activate py38viz
pip install numpy==1.19.3
pip install pandas
pip install plotly
Pip install ipywidgets
pip install dash
pip install jupyterlab==2.2.0
pip install jupyter-dash
pip uninstall pywin32 -y
conda install pywin32 -y
```

Verify the installation

Run Jupyter notebook

```
jupyter notebook
```

Execute the code in `TestPlotly.ipynb` and `TestDash.ipynb`

Random datastream