

Introduction to Programming W13

Visualization II., Introduction to Bokeh

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1 Bokeh and interactive visualization with code

While Matplotlib is probably the most popular Python library for creating static figures, the Bokeh library is often used for interactive visualization. It offers an easy way to make highly interactive graphs in the browser, making it useful for data exploration, demonstrations, and scientific reports. Although it is not required, the easiest way to work with Bokeh is from your browser; from a Jupyter notebook. The documentation is available at <https://docs.bokeh.org/en/latest/>. If you do not have bokeh (encounter an error when importing it), you can install it with the `pip install bokeh` command from a terminal.

Download the notebook "Bokeh intro.ipynb" and "iris.csv" from Manaba R+ and put them into the same folder ("iris.csv" is the same file you worked with in your previous assignment). Open Jupyter Notebook and navigate to the directory where the notebook is located, and open it. Run the commands while observing the outputs, and check the documentation for the corresponding parts if needed.

2 Homework: other visualization libraries

Practice how to get familiar with a library you still do not know how to use! Two other often used Python visualization libraries are Plotly and Seaborn. Check the basic syntax of these libraries and try to create a few simple figures based on the examples in their documentation.

<https://seaborn.pydata.org/tutorial.html>

<https://plotly.com/python/getting-started/>