

Daedalus Python Workshop

L7: Matplotlib for Data Visualization

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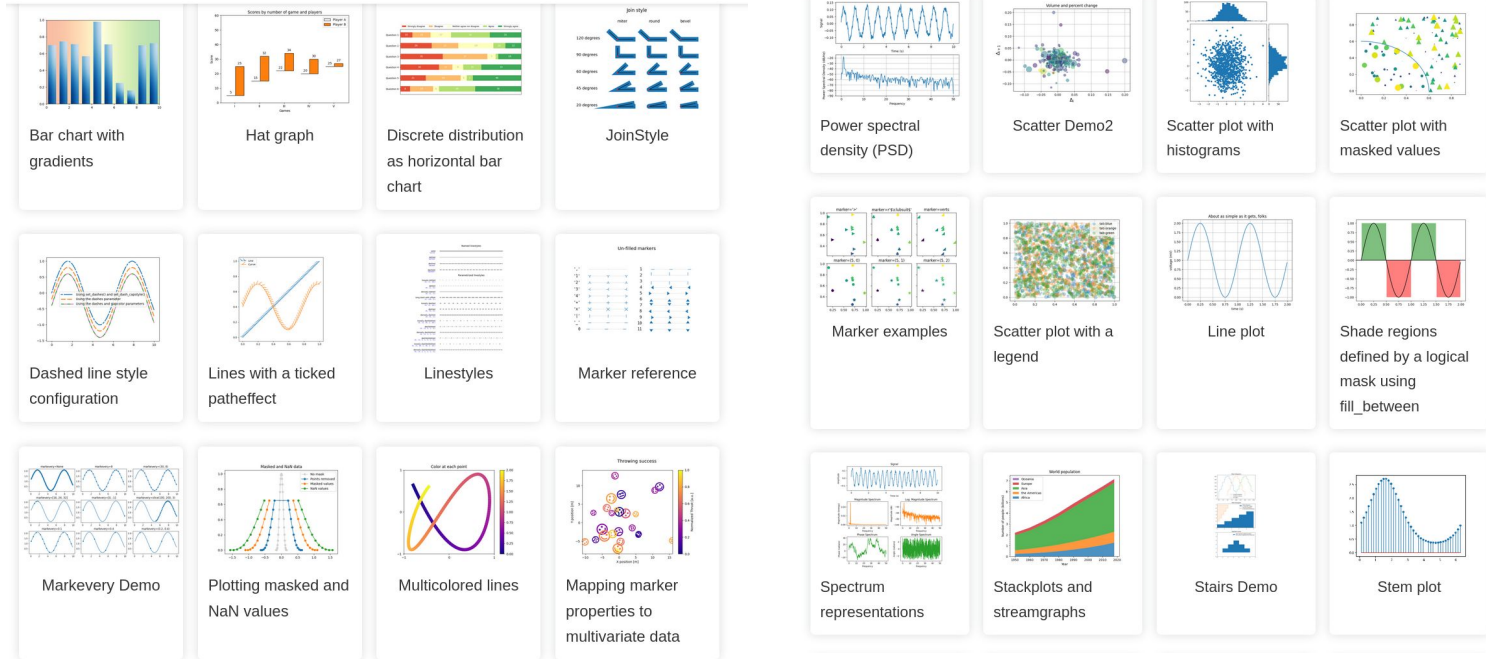
Garching, 16. December 2025



Topics

- Importance of data visualization
- Creating and customizing different plot types:
 - Line plots
 - Scatter plots
 - Bar graph
 - Histogram
- Preparing professional graphics for projects, etc.
 - Placing plots on a figure
 - Exporting a figure to an image

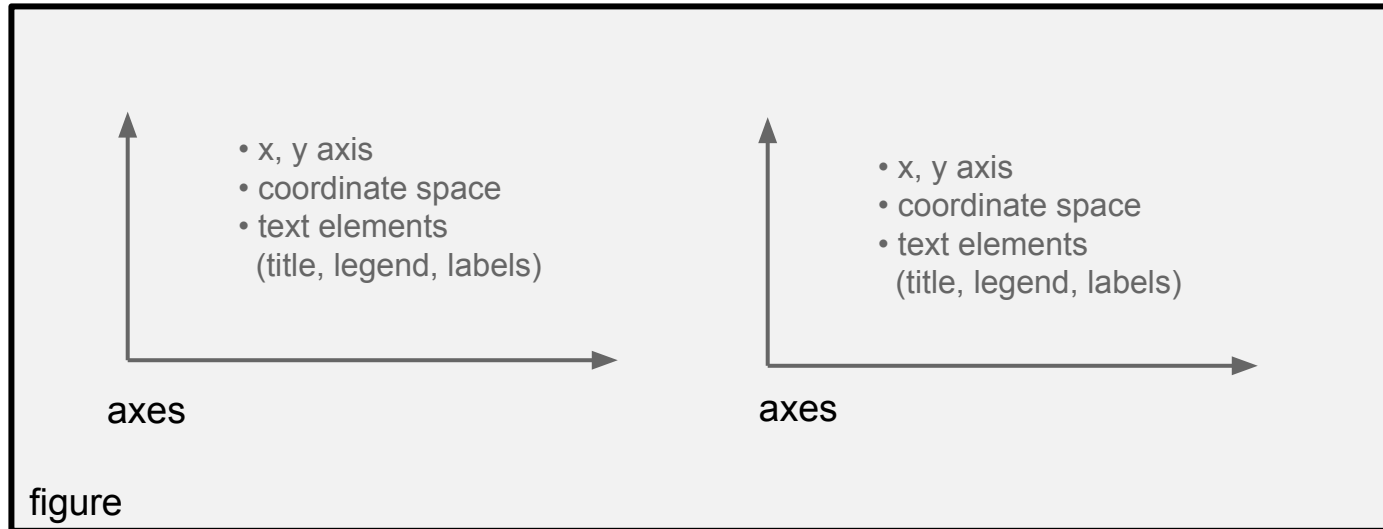
What's possible with Matplotlib?



(we'll be sticking to the basics)

High-level overview of Matplotlib

Object oriented: **figure** and **axes** objects



Packages required for this lesson

You will need **numpy**, **pandas**, **matplotlib** installed to your virtual environment.

Windows:

```
.\.venv\Scripts\Activate
```

```
pip install numpy pandas matplotlib
```

MacOS or Linux:

```
.venv/bin/activate
```

```
pip install numpy pandas matplotlib
```

Activate your virtual environment within the Jupyter Notebook in VSCode.

Let's go to our Jupyter Notebook...