DATA VISUALISATION IN LATEX

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Matplotlib is a very popular Python package for 2D-Graphics, which provides a very quick way to visualize data. *Pyplot* provides a user-friendly interface to the *matplotlib* library. If we want to draw the cosine or sine functions, we are to import a numpy array, including 256 values ranging from -x to +x. Matplotlib comes with a set of default settings that allow customizing all kinds of properties: figure size and dpi, line width, color and style so on. With *subplot* you can arrange plots in a regular grid. You need to specify the number of rows and columns and the number of the plot. *Axes* are very similar to subplots but allow placement of plots at any location in the figure. So if we want to put a smaller plot inside a bigger one we do so with axes. The most easy way to make an animation in matplotlib is to declare a *FuncAnimation* object that specifies to matplotlib what is the figure to update, what is the update function and what is the delay between frames.