LAB 3

Python plotting

Learning goals:

Basic plotting with Matplotlib.

Go through the steps below to create a plot gradually. Some steps will be superseded by subsequent ones, but include them anyway in your code, commented out. For new commands, you may browse the Matplotlib examples gallery or use the built-in `help()`. You should drop the '`plt.`' prefix if you see it.

1. Create a vector '`x`' using `linspace()` as shown in class.
2. Create a vector '`y`' that is some function (of your choosing) of `x`.
3. Make a plot of `y` vs `x` having the following properties
   a) solid line style
   b) dashed line style
   c) marker type (no line):
      i) circle
      ii) ×
      iii) 5-point star
   d) line & marker (your choice of style and type)
   e) next, apply a color of your choice
   f) label the axes
   g) title the plot
   h) include a label using `text()`
   i) add a legend to the lower-right corner
   j) turn on grid lines
   k) modify the following command to set the plot font size to look good:

```
rcParams.update({'font.size':  XX})
```

   l) Save your plot as an image file (use `savefig()`), and upload it to Canvas along with your Jupyter .ipynb file.
4. What does `xkcd()` do?