

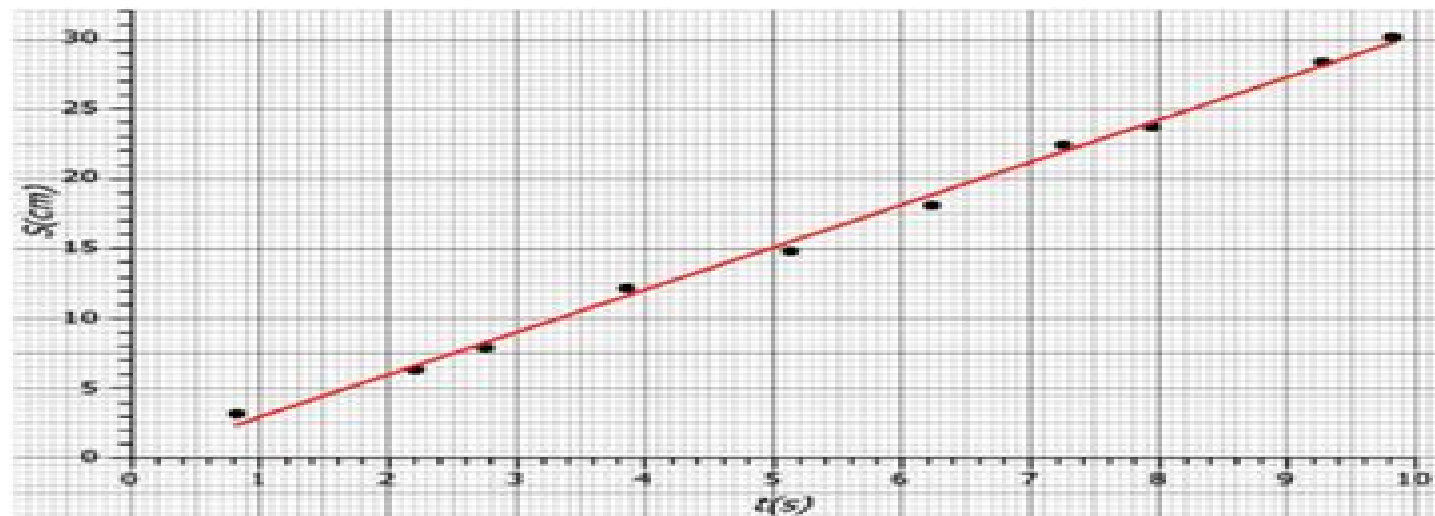
## 2. Introduction to matplotlib

Matplotlib is the main library for plots in python. Check its [webpage](#) for the main documentation, tutorials and examples. There's also a good discussion on [Tutorial's point](#).

### 2.1. How to organize data for a simple plot?

To plot something we need the data. Typically this means using `numpy`, which we will discuss in details on the next chapter. For now, let's check only a few `numpy` commands to help us organize the data and make plots.

Just like in your first *lab classes*, to plot something on a graph paper (*papel milimetrado* in Portuguese), you need a set of  $(x,y)$  points on a table, for instance:



t(s)	S(cm)
0.8	4.0
2.2	6.0
2.8	7.5
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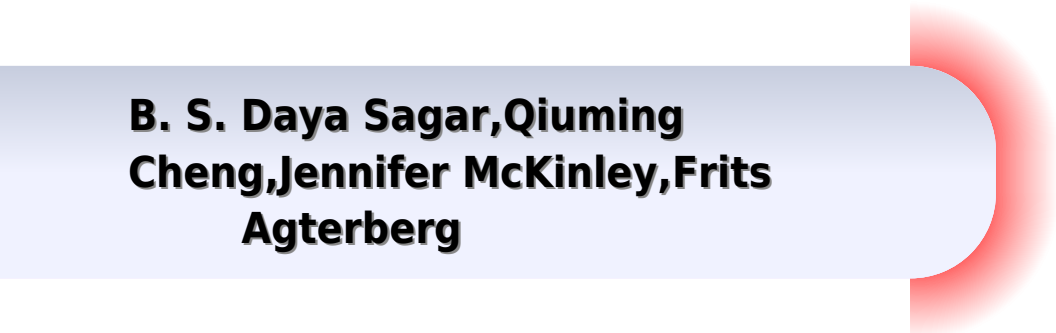
The data on the table is then used to draw the points in the graph paper, as in this figure.

#### 2.1.1. A first example

So, to prepare the data we need a list of points organized as the  $x$  and  $y$  coordinates. For instance, consider this first example:

# An Introduction To Matplotlib School Of Geosciences

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