

PGFPlot-A simple tutorial*

Son To

June 13th, 2017

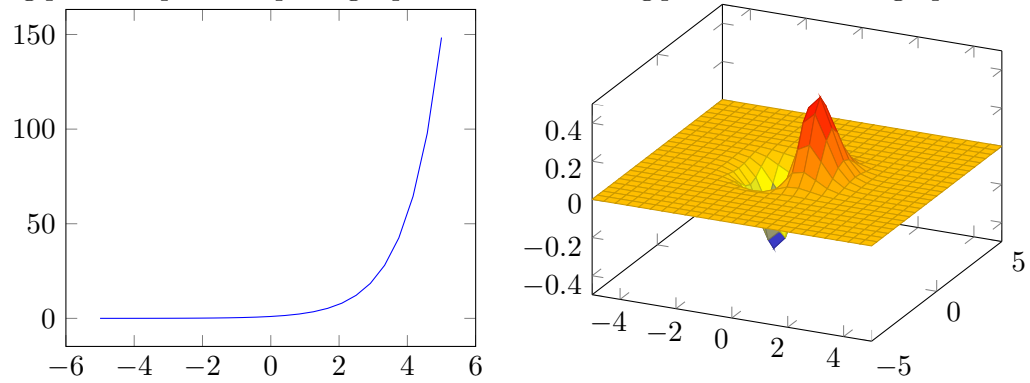
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*This tutorial is taken from [this link](#) with some modifications for personal pleasure!

I The Basic

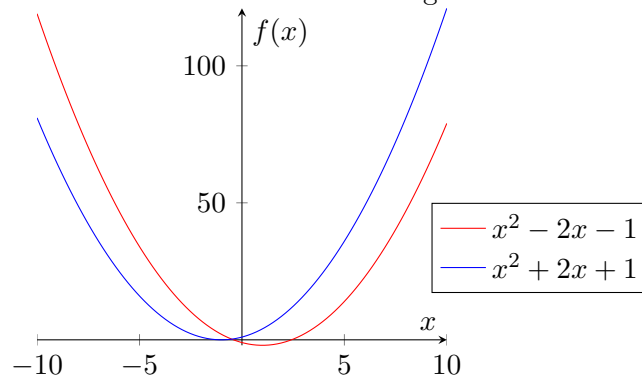
Pgfplots is a powerful package specialized in creating powerful scientific graphs.



We now get to some more details on 2D plot.

II 2D Plot

What the heck...Let's do some damage!

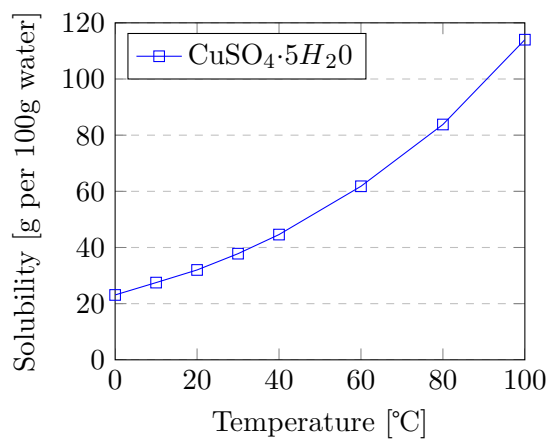


Come on man!!!! Let's make some plots from data.

II.1 Plotting from data

I love to test °C

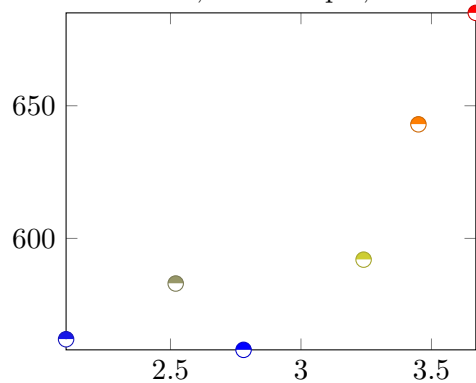
Temperature dependence of $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$



When the data is in a file, put `\addplot table {file_with_the_data.dat}` instead of using `\addplot coordinates {}`.

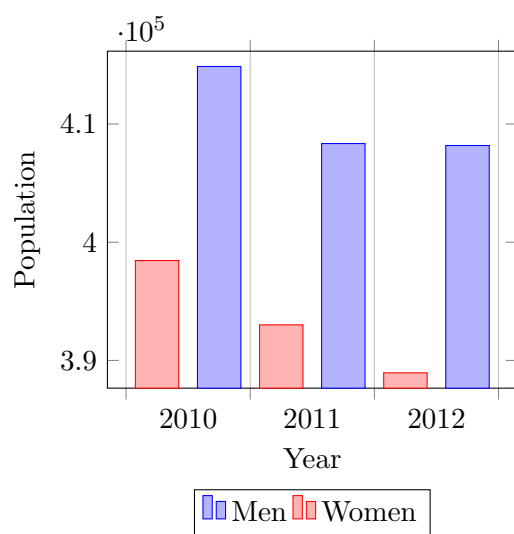
II.2 Scatter plots

Scatter plot is used to represent information by using some kind of marks, which are common, for example, when computing statistical regression.



II.3 Bar graphs

Bar graphs are used to display gathered data.



III 3D Plots

The name says it all... This is sexier in Mathematica, I think!