

HAKUNAMATATA
CS-251 PROJECT

GRAPH PLOTTER

Rajat Majoka(160050031)
Simranpreet Singh(160050111)
Prateek Taya(160050110)

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Problem Statement

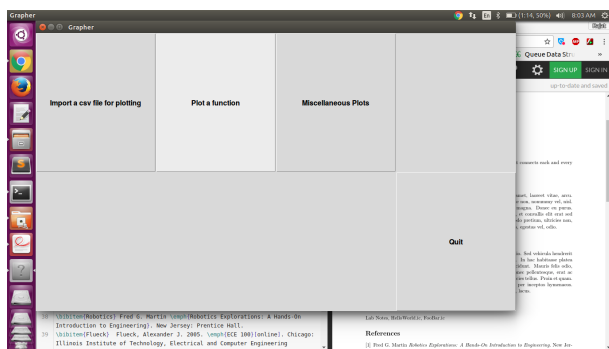
In this project we have made a graphic user interface using python which takes input in various forms and then plots a graph using that input/data. User can provide input in various forms like some equation expressing a 2d/3d curve or excel/csv/txt file. The user can save an image of the graph plotted in any format.

Libraries Used

- matplotlib,pylab
- tkinter
- Sympy
- pandas
- tkColorChoose,tkFont

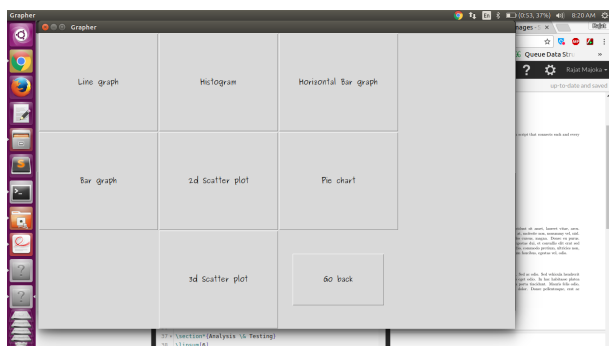
Construction/Implementation

We have created a python script that connects every other python script with the Graphic user interface.

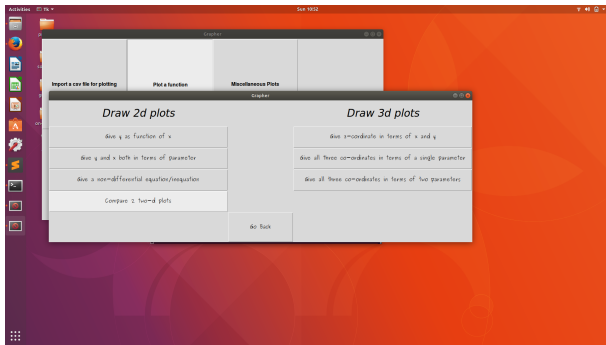


This interface has the following four functional buttons

- To make graph based on data in a csv/txt file.
- Using this we can make graph/charts like histogram,bar graph,piechart,line graph,horizontal bar graph,2-d scatter plot and 3-d scatter plot



- Use the second button to make graphs based to plot a graph using an equation containing variables x and y or to plot $2d/3d$ /differential/integral etc.



- Some miscellaneous plots.Used for making polar plots , to see a graph in it's making or a piechart

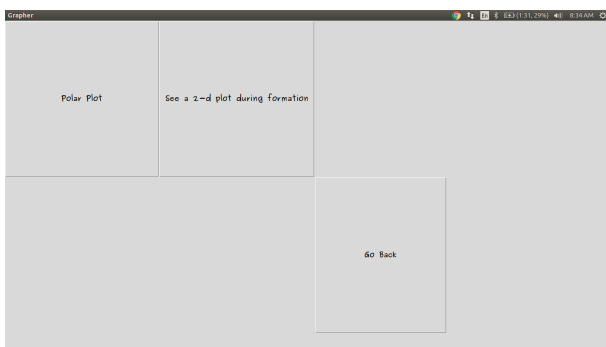
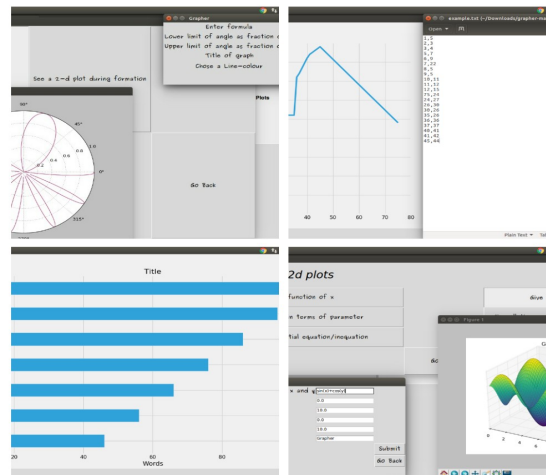


Figure 1: Examples of some graphs plotted



What was promised

We promised to build an website/interface that plots a graph using python and it's libraries based on the input/data provided.

What was eventually delivered

Instead of a website we made a graphic user interface using python because we couldn't import all the features of matplotlib/sympy in Django.