

Multiple Plots in a Canvas

**Spoken Tutorial Project//
<https://spoken-tutorial.org>**

**National Mission on Education through ICT
<http://sakshat.ac.in>**

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Learning Objectives



Learning Objectives

- ▶ **Generate multiple plots in one canvas**



Learning Objectives

- ▶ **Generate multiple plots in one canvas**
- ▶ **Make a multiplot graph using script commands**



Learning Objectives

- ▶ **Generate multiple plots in one canvas**
- ▶ **Make a multiplot graph using script commands**
- ▶ **Define placement and size of graphs in canvas**



Learning Objectives



Learning Objectives

- ▶ **Add a rectangle object in the background**



Learning Objectives

- ▶ **Add a rectangle object in the background**
- ▶ **Generate output on the screen**



Learning Objectives

- ▶ **Add a rectangle object in the background**
- ▶ **Generate output on the screen**
- ▶ **Save the output to svg file**



System Requirements



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► **Ubuntu Linux 16.04**



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- ▶ **Gedit v 3.18**



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- ▶ **Gedit v 3.18**
- ▶ `gnuplot v 5.2.6`



Pre-requisites



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- ▶ **Learner must be familiar with the basics of gnuplot**



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- ▶ **Learner must be familiar with the basics of gnuplot**
- ▶ **For pre-requisite tutorials please visit this site**
<https://spoken-tutorial.org>



Code files



Code files

- The files used in this tutorial are provided in the Code files link



Code files

- ▶ **The files used in this tutorial are provided in the Code files link**
- ▶ **Please download and extract them**



Summary



Summary

- ▶ Learned the `multiplot` command
- ▶ Defined placement and size of plot in canvas
- ▶ Generated four plots in a canvas
- ▶ Added a rectangle object
- ▶ Generated output on the screen
- ▶ Saved the output to a `svg` file



Assignment



Assignment

- ▶ **Plot 4 parabolas opening in 4 different quadrants in a 2 x 2 multiplot**
- ▶ **Give a different background color for each plot**



Assignment



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With the **data.txt** file that it provided, do the following

- ▶ Generate one plot covering the canvas with $x-y_1$ data points
- ▶ Draw an inset graph with $x-y_2$ data points



About the Spoken Tutorial Project

- ▶ Watch the video available at https://spoken-tutorial.org/What_is_a_Spoken_Tutorial
- ▶ It summarises the Spoken Tutorial project
- ▶ If you do not have good bandwidth, you can download and watch it



Spoken Tutorial Workshops

The Spoken Tutorial Project Team

- ▶ Conducts workshops using spoken tutorials
- ▶ Gives certificates to those who pass an online test
- ▶ For more details, please write to contact@spoken-tutorial.org



Forum for Specific Questions

- ▶ Questions in **THIS Spoken Tutorial?**
- ▶ Visit <https://forums.spoken-tutorial.org>
- ▶ Choose the minute and second where you have the question
- ▶ Explain your question briefly
- ▶ The Spoken Tutorial project will ensure an answer

You will have to register to ask questions



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