

# Overview of gnuplot

**Spoken Tutorial Project**

**<https://www.spoken-tutorial.org>**

**National Mission on Education through ICT**

**<http://sakshat.ac.in>**

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# Learning Objectives



# Learning Objectives

- ▶ **The gnuplot website**



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- ▶ **The gnuplot website**
- ▶ **Important features and capabilities of gnuplot**



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- ▶ **The gnuplot website**
- ▶ **Important features and capabilities of gnuplot**
- ▶ **Benefits of gnuplot**



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- ▶ **Important features and capabilities of gnuplot**
- ▶ **Benefits of gnuplot**
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# Learning Objectives



# Learning Objectives

- ▶ We will also play excerpts of `gnuplot` tutorials available on this website



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# System Requirements



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- ▶ **Ubuntu Linux v16.04 OS**



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- ▶ **Firefox web browser v75**



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- ▶ **Ubuntu Linux v16.04 OS**
- ▶ **Firefox web browser v75**
- ▶ **A working internet connection**





# Pre-requisites

- ▶ **Learner must be familiar with basic computer and Internet skills**



# About gnuplot



# About gnuplot

- ▶ **A command-line driven plotting program in C language**



# About gnuplot

- ▶ **A command-line driven plotting program in C language**
- ▶ **Several plotting abilities and has a learning curve**



# About gnuplot

- ▶ **A command-line driven plotting program in C language**
- ▶ **Several plotting abilities and has a learning curve**
- ▶ **Can generate graphs interactively and save the output**



# Download Link



# Download Link

- The download link for gnuplot is <https://www.gnuplot.info>



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- ▶ The download link for gnuplot is <https://www.gnuplot.info>
- ▶ It is a cross platform software





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- ▶ Available for Windows, Linux and Mac OS



# Download Link

- ▶ The download link for `gnuplot` is <https://www.gnuplot.info>
- ▶ It is a cross platform software
- ▶ Available for Windows, Linux and Mac OS
- ▶ It is a copyrighted software and available free of cost



# User Forum



# User Forum

- ▶ **Currently, Stackoverflow and Sourceforge have an active gnuplot user forum**



# Benefits of gnuplot



# Benefits of gnuplot

- ▶ **Widely used by the scientific community**



# Benefits of gnuplot

- ▶ **Widely used by the scientific community**
- ▶ **Continuously developed and improved upon**



# Scientific Community and gnuplot





# Scientific Community and gnuplot

- ▶ **Perform curve fitting to find mathematical relation between data points**



# Scientific Community and gnuplot

- ▶ **Perform curve fitting to find mathematical relation between data points**
- ▶ **Save the output in various file formats**



# Scientific Community and gnuplot

- ▶ **Perform curve fitting to find mathematical relation between data points**
- ▶ **Save the output in various file formats**
- ▶ **Support plotting back-end of other scientific software**



# Gist of the Tutorials in This Series

- ▶ **Here are the video-clippings of these tutorials**



# Summary



# Summary

- ▶ **Learned about gnuplot and the gnuplot website**
- ▶ **Browsed through capabilities of gnuplot and example scripts for users**
- ▶ **Visited the user forum**



# Summary



# Summary

- ▶ **Played video-clippings of gnuplot tutorials available on this website**





# About the Spoken Tutorial Project

- ▶ Watch the video available at [https://spoken-tutorial.org/What\\_is\\_a\\_Spoken\\_Tutorial](https://spoken-tutorial.org/What_is_a_Spoken_Tutorial)
- ▶ It summarises the Spoken Tutorial project



# About the Spoken Tutorial Project

- ▶ Watch the video available at [https://spoken-tutorial.org/What\\_is\\_a\\_Spoken\\_Tutorial](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](mailto:contact@spoken-tutorial.org)



# Forum 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**



# Forum for specific questions

- ▶ **The Spoken Tutorial forum is for specific questions on this tutorial**
- ▶ **Please do not post unrelated and general questions on them**
- ▶ **This will help reduce the clutter**
- ▶ **With less clutter, we can use these discussion as instructional material**



# Acknowledgements

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