Statistics and Box Plot

Spoken Tutorial Project
https://spoken-tutorial.org
National Mission on Education through ICT
http://sakshat.ac.in

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Learning Objectives

- **Plot string data on x-axis**

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▶ **Calculate statistical summary for the input file**

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▶ **Draw candlestick plot**

▶ **Draw boxplot with & without outliers**

Learning Objectives

► **Specify the position of boxplot on x-axis**

System Requirements

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- **Ubuntu Linux v 16.04 OS**

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- gnuplot v 5.2.6

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- **Gedit v 3.18**

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 prerequisite** gnuplot **tutorials please visit this site**
   https://spoken-tutorial.org

Code Files

► **The files used in this tutorial are provided in the Code files link**

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▶ **Please download and extract them**

Summary

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▶ **Plotted string data on x-axis**

▶ **Calculated statistical summary with stats command**

▶ **Generated candlestick plot**

▶ **Generated box plot with and without outliers**

Summary

► **Specified the x-axis position for the box plot**

Assignment 1

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- ▶ **Practice the box plot with and without outliers for the file boxplot.txt**

- ▶ **Practice and understand example boxplot styles from** `gnuplot` **website**

http://gnuplot.sourceforge.net/demo_5.2/

Assignment 2

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- ▶ **Draw a Time-activity graph for your daily activities**

- ▶ **For this, time your activities in a day and make a time table**

- ▶ **Plot time in hours on y-axis and activities on x-axis**

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 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

Acknowledgements

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Rani PV   Statistics and Box Plot