## Multiple Plots

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

http://sakshat.ac.in

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Narration:

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In this tutorial, we will learn -





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Draw multiple plots which are overlaid





#### In this tutorial, we will learn -

- Draw multiple plots which are overlaid
- Use the figure command





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- Draw multiple plots which are overlaid
- Use the figure command
- Use the legend command





Switch between the plots and perform some operations on each of them like saving the plots.





# System Specifications

▶ Ubuntu Linux 14.04





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- Python 3.4.3





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- ▶ IPython 5.1.0





## Pre-requisites

To practise this tutorial, you should know how to

- use Plots interactively.
- Embellish a plot.
- Save plots.

If not, see the pre-requisite Python tutorials on <a href="http://spoken-tutorial.org">http://spoken-tutorial.org</a>



#### Draw two plots for the given form

1. First plot is a parabola of the form  $y = 4x^2$ 





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- 2. Second plot is a straight line of the form y = 2x + 3 in the interval -5 to 5.





#### Draw two plots for the given form

- 1. First plot is a parabola of the form  $y = 4x^2$
- 2. Second plot is a straight line of the form y = 2x + 3 in the interval -5 to 5.
- 3. Use legends to indicate each plot.





▶ Draw a line of the form y = x as one figure and another line of the form y = 2x + 3.





- ▶ Draw a line of the form y = x as one figure and another line of the form y = 2x + 3.
- Save each of them.





# Summary

In this tutorial, we have learnt to -

- Draw multiple plots which are overlaid.
- **▶** Use the figure command.
- Use the legend command.





# Summary

Switch between the plots and perform some operations on each of them like saving the plots.





### Evaluation

- 1. What command is used to get individual plots separately?
- 2. What will be the command to identify sine and cosine curve?





### Solutions

- 1. figure()
- 2. legend(['sin(x)','cos(x)'])





# Forum to answer questions

- Do you have questions on THIS Spoken Tutorial?
- Choose the minute and second where you have the question.
- Explain your question briefly.
- Someone from the FOSSEE team will answer them. Please visit

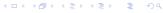




# Forum to answer questions

- Questions not related to the Spoken Tutorial?
- Do you have general / technical questions on the Software?
- Please visit the FOSSEE Forum http://forums.fossee.in/
- Choose the Software and post your question.





# Textbook Companion Project

- The FOSSEE team coordinates coding of solved examples of popular books
- We give honorarium and certificate to those who do this

For more details, please visit this site:



http://tbc-python.fossee.in/



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- It is supported by the National Mission on Education through ICT, MHRD, Government of India
- More information on this Mission is available at:

http://spoken-tutorial.







### **THANK YOU!**

For more Information, visit our website http://fossee.in/



