

# Additional features of IPython

**Spoken Tutorial Project**

**<http://spoken-tutorial.org>**

**National Mission on Education through ICT**

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

**Script: Thirumalesh H S**

**Narrator: Kiran Kishore**

**IIT Bombay**

**23 November 2015**



# Objectives

**At the end of this tutorial you will be able to,**



# Objectives

**At the end of this tutorial you will be able to,**

- ▶ **Retrieve your IPython history.**



# Objectives

**At the end of this tutorial you will be able to,**

- ▶ **Retrieve your IPython history.**
- ▶ **View a part of the history.**



# Objectives

**At the end of this tutorial you will be able to,**

- ▶ **Retrieve your IPython history.**
- ▶ **View a part of the history.**
- ▶ **Save a part of the history to a file.**



# Objectives

**At the end of this tutorial you will be able to,**

- ▶ **Retrieve your IPython history.**
- ▶ **View a part of the history.**
- ▶ **Save a part of the history to a file.**
- ▶ **Run a script from within IPython.**



# System Specifications



# System Specifications

- ▶ **Ubuntu Linux 14.04**





# System Specifications

- ▶ **Ubuntu Linux 14.04**
- ▶ **Python 3.4.3**



# System Specifications

- ▶ **Ubuntu Linux 14.04**
- ▶ **Python 3.4.3**
- ▶ **IPython 5.1.0**



# Prerequisites

**To practice this tutorial, you should know how to**



# Prerequisites

To practice this tutorial, you should know how to

- ▶ use Plots interactively



# Prerequisites

To practice this tutorial, you should know how to

- ▶ use Plots interactively
- ▶ and embellish a plot



# Prerequisites

To practice this tutorial, you should know how to

- ▶ use Plots interactively
- ▶ and embellish a plot

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



# Assignment 1

- ▶ Find out how to list the recent commands between 5 and 10.



# Assignment 2

- ▶ Use `%history` and `%save` to create a script that has the function `show()` in it. Run the script to produce the plot and display the same.





# Summary

In this tutorial, we have learnt to,

- ▶ Retrieve the history using `%history` command.
- ▶ View only a part of history by passing argument to `%history` command.



# Summary..

- ▶ Save the required lines of code in the required order using `%save` command.
- ▶ Use `%run -i` command to run a saved script.



# Self Assessment 1

- ▶ How do you save the command lines

2 3 4 5 7 9 10 11

- ▶ `%save <filename> 2-5 7 9-11`
- ▶ `%save <filename> 2-11`
- ▶ `%save <filename>`
- ▶ `%save 2-5 7 9 10 11`



# Self Assessment 2

- ▶ Which is the command to run the script?
  - ▶ `%execute <script name>`
  - ▶ `%run -i <script name>`
  - ▶ `%run <script name>`
  - ▶ `%execute -i <script name>`



# Solution for the self assessment questions

► `%save <filename> 2-5 7  
9-11.`



# Solution for the self assessment questions

- ▶ `%save <filename> 2-5 7 9-11.`
- ▶ `%run -i <scriptname>.`



# Forum to answer questions

- ▶ **Do you have questions in 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/>



# Acknowledgements

- ▶ **Spoken Tutorial Project is a part of the Talk to a Teacher project**
- ▶ **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.org/NMEICT-Intro>



# THANK YOU!

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

