


SPOKEN TUTORIAL – Python 3.4.3

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☰ Workshop / Training Participants

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Foss Python 3.4.3
Date July 1, 2020
Participants Count 46
Organiser Aruna Padma D

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1. Getting started with IPython

Basic

Foss : Python 3.4.3 - English

Outline: >Use Python 3.5.2 >Use Ipython version 5.1.0 >IPython is an enhanced interactive Python interpreter. >Invoke the IPython interpreter >Quit the IPython interpreter >Navigate th...



2. Using plot command interactively

Basic

Foss : Python 3.4.3 - English

Outline: Use Python 3.4.3 Use Ipython version 5.1.0 Start IPython with pylab. ImportError if matplotlib is not installed ctf() function Use the linspace function to create equally spac...



3. Embellishing a plot

Basic

Foss : Python 3.4.3 - English

Outline: Use Python 3.4.3 Use Ipython version 5.1.0 Modify the attributes of a plot Pass additional keyword arguments to plot command Add title to a plot using 'title' command. Incor...



4. Saving plots

Basic

Foss : Python 3.4.3 - English

Outline: Use Python 3.4.3 Use Ipython version 5.1.0 Save plots using the savefig() function. Save the plots in different formats like pdf ps png svg eps

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5. Multiple plots

Foss : *Python 3.4.3 - English*

Outline: -Use Python 3.4.3 - Use IPython 5.1.0 - Draw multiple plots which are overlaid. - Operations on individual plots. - Use the figure command. - Distinguish between multiple over..

Basic



6. Subplots

Foss : *Python 3.4.3 - English*

Outline: * Use Python 3.4.3 * Use IPython 5.1.0 * Creating subplots * Switching between subplots. * Subplot command * Passing arguments to subplot command. * First argument is the num..

Basic



7. Additional features of IPython

Foss : *Python 3.4.3 - English*

Outline: * Use Python 3.4.3 * Use IPython 5.1.0 * Retrieve the history using %history command. * View only a part of history by passing argument to %history command. * Pass arguments t..

Basic



8. Loading Data From Files

Foss : *Python 3.4.3 - English*

Outline: load data from file single column multiple columns separated by delimiter cat command loadtxt() columns separated by spaces columns separated by semi-colon unpack argument ..

Basic



9. Plotting Data

Foss : *Python 3.4.3 - English*

Outline: plotting data list list element-wise squaring plot data points clear plots errorbar function dots or filled circles in plot plot with red pluses explore documentation in ip..

Basic



10. Other Types Of Plots

Foss : *Python 3.4.3 - English*

Outline: scatter plot scatter function scatter plot with various arguments logarithmic plot loglog function cat command loadtxt function unpack parameter of loadtxt linspace scatter..

Basic



11. Plotting Charts

Foss : *Python 3.4.3 - English*

Outline: * Use Python 3.4.3 * Use IPython 5.1.0 * To produce scatter plot * Plot a pie chart using pie() function * Plot a bar chart using bar() function * Access the matplotlib online..

Basic



12. Getting started with Lists

Foss : *Python 3.4.3 - English*

Outline: What is a list? Define List List index Create: List with elements Empty list within a list Find out the list length using len function Access elements using their..

Intermediate



13. Getting started with for

Foss : *Python 3.4.3 - English*

Outline: For loop syntax Example to use For loop Indentation in for loop Create blocks in python using for Iterate over a list using for loop How to get out of the block use of Range[.

Intermediate



14. Getting started with strings

Foss : *Python 3.4.3 - English*

Outline: What are strings? How are strings denoted in Python? String concatenation Multiply a string with an integer Accessing individual elements of a string Accessing elements of a s..

Intermediate



15. Getting started with files

Foss : *Python 3.4.3 - English*

Outline: Open a file Open() function Different Modes of opening a file Read() method Read the content of the file line by line Read the entire content of the file Append the lines of ..

Intermediate

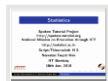


16. Parsing data

Foss : *Python 3.4.3 - English*

Outline: What is Parsing data? split function and its syntax What is string tokenizing? How to split a string on whitespace? split function with argument strip function and example Co..

Intermediate



17. Statistics

Foss : *Python 3.4.3 - English*

Outline: Statistical operations in Python Installation of Numpy for mathematical and logical operations installation of pip to install python libraries loadtxt() function with example G..

Intermediate



18. Getting started with arrays

Foss : *Python 3.4.3 - English*

Outline: Overview of array Usage of numpy library How to create arrays How to create two

Intermediate



17. Statistics

Foss : Python 3.4.3 - English

Outline: Statistical operations in Python Installation of Numpy for mathematical and logical operations Installation of pip to install python libraries loadtxt() function with example G..

Intermediate



18. Getting started with arrays

Foss : Python 3.4.3 - English

Outline: Overview of array Usage of numpy library How to create arrays How to create two dimensional array arange() method reshape() method How to find the shape of an array? Create..

Intermediate



19. Accessing parts of arrays

Foss : Python 3.4.3 - English

Outline: Create a one-dimensional array Create a two-dimensional array Accessing individual elements of an array How to change the value of an array How to change more than one elements..

Intermediate



20. Image manipulation using Arrays

Foss : Python 3.4.3 - English

Outline: Read images into arrays How to access parts of an array? imread command imshow command show command How to check the dimensions of an array? Example to access parts of an ima..

Intermediate



OUTCOME

46 students learnt Python course attempted Exam and got Certificate along with the Programming skills