

Loading data from files

Spoken Tutorial Project

<http://spoken-tutorial.org>

National Mission on Education through ICT

<http://sakshat.ac.in>

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Learning Objectives

Read data from files, which contain data in:



Learning Objectives

Read data from files, which contain data in:

- ▶ **Single column format**



Learning Objectives

Read data from files, which contain data in:

- ▶ Single column format
- ▶ Multiple columns separated by spaces or other delimiters



System Specifications

► Ubuntu Linux 14.04 OS



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- ▶ **Python 3.4.3**



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- ▶ **Python 3.4.3**
- ▶ **IPython 5.1.0**



Pre-requisites

- ▶ You should know how to run basic Python commands on the ipython console



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- ▶ If not, for relevant Python tutorials, please visit this website.
<http://spoken-tutorial.org>



Assignment 1

- ▶ **Read the data from the file**
`pendulum_semicolon.txt`
- ▶ **This file contains data in two columns. These columns are separated by semi-colons**
- ▶ **Use the IPython help to see how to do this**



Summary

- ▶ To Read data from files using the **loadtxt()** command.
- ▶ The data can be in,
 - ▶ A single column
 - ▶ Multiple columns format separated by spaces or other delimiters



Evaluation

1. **loadtxt()** can read data only from a file with one column. True or False?
2. Given a file “data.txt” with three columns of data separated by spaces. Read it into 3 separate simple sequences.



Evaluation (cont.)

3. **Given a file “data.txt” with three columns of data separated by “:”. Read it into 3 separate simple sequences.**



Solutions

1. False
2. `x = loadtxt("data.txt",
unpack=True)`
3. `x = loadtxt("data.txt",
unpack=True, delimiter=":")`



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

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



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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- ▶ 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/>

