

# *HERE document and strings*

**Talk to a Teacher Project**

<http://spoken-tutorial.org>

**National Mission on Education through ICT**

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

**FOSSEE & Spoken Tutorial Team  
IIT Bombay**

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# Learning Objectives



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- **Special-purpose redirection called Here documents and Here strings**



# Learning Objectives

- ▶ **Special-purpose redirection called Here documents and Here strings**
- ▶ **With the help of some examples**



# Prerequisite



# Prerequisite

- Knowledge of Shell Scripting



# Prerequisite

- ▶ Knowledge of **Shell Scripting**
- ▶ If not, for relevant tutorials please visit <http://spoken-tutorial.org>



# System Requirements





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- ▶ **Ubuntu Linux 12.04 OS**



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- ▶ **GNU Bash version 4.2**



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- ▶ Ubuntu Linux 12.04 OS
- ▶ GNU Bash version 4.2
- ▶ **GNU Bash version 4 or above is recommended for practice**



# Here Document



# Here Document

- It is a special-purpose block of text or code



# Here Document

- ▶ It is a special-purpose block of text or code
- ▶ It is a form of I/O redirect



# Here Document

- ▶ It is a special-purpose block of text or code
- ▶ It is a form of I/O redirect
- ▶ It feeds a command list to an interactive program or command line



# Here Document





# Here Document

- It can be treated as a separate file



# Here Document

- ▶ It can be treated as a separate file
- ▶ It can be treated as multiple line input redirected to a shell script



# Here Document

## Syntax:

```
command << HERE
```

```
    text1
```

```
    text2
```

```
    textN
```

```
HERE
```



# Here String



# Here String

- ▶ Here string is used for input redirection from text or a variable



# Here String

- ▶ Here string is used for input redirection from text or a variable
- ▶ Input is mentioned in same line within single quotes



# Here String



# Here String

## Syntax:

► `command <<< 'string'`





# Summary



# Summary

- **HERE document**



# Summary

- ▶ **HERE document**
- ▶ **HERE string**



# Assignment

- ▶ **Convert a string to uppercase using:**
  - ▶ Here document
  - ▶ Here string
  - ▶ (Hint: `tr a-z A-Z`)



# About the Spoken Tutorial Project

- ▶ Watch the video available at [http://spoken-tutorial.org/What\\_is\\_a\\_Spoken\\_Tutorial](http://spoken-tutorial.org/What_is_a_Spoken_Tutorial)
- ▶ It summarizes the Spoken Tutorial project



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- ▶ It summarizes 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](mailto:contact@spoken-tutorial.org)



# Acknowledgment

- ▶ 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>

