

# New Commands

**Spoken Tutorial Project**

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

**National Mission on Education through ICT**

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

**Ambika Vanchinathan**

**IIT Bombay**

**20 August 2015**



# Learning Objectives



# Learning Objectives

**This tutorial will help the learners to**



# Learning Objectives

**This tutorial will help the learners to**

- ▶ **create or define new commands to get customized output.**



# Learning Objectives

**This tutorial will help the learners to**

- ▶ **create or define new commands to get customized output.**
- ▶ **redefine the existing commands.**



# Prerequisite

**To follow this tutorial, you should have knowledge of**



# Prerequisite

**To follow this tutorial, you should have knowledge of**

- ▶ **Commands that are necessary to create a document in LaTeX.**



# Prerequisite

To follow this tutorial, you should have knowledge of

- ▶ **Commands that are necessary to create a document in LaTeX.**
- ▶ **Compiling and producing a PDF output in LaTeX.**





# Prerequisite

- ▶ If not, please go through the relevant LaTeX spoken tutorials on <http://spoken-tutorial.org>



# System Requirements



# System Requirements

**To record this tutorial, I am using**



# System Requirements

**To record this tutorial, I am using**

- ▶ **Ubuntu Linux 14.04 OS**



# System Requirements

To record this tutorial, I am using

- ▶ **Ubuntu Linux 14.04 OS**
- ▶ **TeXworks version 0.5**



# New Command

- ▶ **Commands are special words that are provided to the compiler.**



# New Command

- ▶ **Commands are special words that are provided to the compiler.**
- ▶ **Commands start with a **backslash** and sometimes accept parameters.**

**Example:**

`\noindent, \textbf, \centering`



# New Command

- ▶ Define our own custom commands in LaTeX to save time or for the code to look cleaner.





# New Command

- ▶ Define our own custom commands in LaTeX to save time or for the code to look cleaner.
- ▶ Ensure that the custom command you create is not an already existing LaTeX command.



# newcommand

- ▶ To define a **new command**, we write

```
\newcommand{command}{definition}
```

at the beginning of the document.



# newcommand with parameters

- ▶ Now, we will see **newcommand** with parameters.



# newcommand with parameters

- ▶ Now, we will see **newcommand** with parameters.

- ▶ It is typically defined as

```
\newcommand{cmd}[parameters]{defn}
```

where **cmd** is the command  
and **defn** is the definition.



# renewcommand

- ▶ **renewcommand** is used to change or overwrite the existing command.



# renewcommand

- ▶ **renewcommand** is used to change or overwrite the existing command.
- ▶ The syntax for **renewcommand** is  
`\renewcommand{command}{definition}`



# renewcommand

- ▶ **renewcommand** is used to change or overwrite the existing command.
- ▶ The syntax for **renewcommand** is `\renewcommand{command}{definition}`
- ▶ It is quite similar to **newcommand**.



# Summary

**To summarise, we have learnt**

- ▶ **newcommand**
- ▶ **newcommand with parameters**
- ▶ **renewcommand**





# Assignment

- ▶ **Create a new command**

`\textbfit`

**which will convert the given text  
into bold and italics.**



# 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 summarises the Spoken Tutorial project



# 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 summarises the Spoken Tutorial project
- ▶ If you do not have good bandwidth, you may download and watch it



# Spoken Tutorial Workshops

## The Spoken Tutorial Team

- ▶ Conducts workshops using spoken tutorials
- ▶ Gives certificates for those who pass an online test
- ▶ For more details, please write to [contact@spoken-tutorial.org](mailto:contact@spoken-tutorial.org)



# 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>

