

# Writing Style Files in L<sup>A</sup>T<sub>E</sub>X

**Spoken Tutorial Project**

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

**National Mission on Education through ICT**

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

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**Video: Praveen S**

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# Learning Objectives

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In this tutorial we will learn how to,

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- ▶ **Define a standard** style file



# System Requirements



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- ▶ **TeXworks Editor v0.6**





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**The steps demonstrated will work in all operating systems**



# Pre-requisites

- ▶ To practise this tutorial, you should be familiar with  $\text{\LaTeX}$  commands



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- ▶ To practise this tutorial, you should be familiar with  $\text{\LaTeX}$  commands
- ▶ You should also know how to **define** `newcommand` and `newenvironment` in  $\text{\LaTeX}$



# Pre-requisites

- ▶ If not, then go through the prerequisite  $\text{\LaTeX}$  spoken tutorials on <https://spoken-tutorial.org>



# Code Files

- ▶ The files used in this tutorial are available in the `Code Files` link on this tutorial page



# Code Files

- ▶ The files used in this tutorial are available in the `Code Files` link on this tutorial page
- ▶ Please download and use them while practising



# Code Files

- ▶ Make sure that all the supporting files are kept in the same folder while practising





# Style File

- ▶ Style files **are also known as Packages**



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- ▶ **These are supplementary files that increase the functionality of  $\text{\LaTeX}$**



# Style File contd.

- ▶ You might have used various packages in your  $\text{\LaTeX}$  document



# Style File contd.

- ▶ You might have used various packages in your  $\text{\LaTeX}$  document
- ▶ For example, we import `geometry` package for defining margins



# Style File contd.

- ▶ To reuse the same code many times in the same document, we use `\newcommand` and `\newenvironment`



# Style File contd.

- ▶ To reuse the **same code many times in the same document**, we use `\newcommand` and `\newenvironment`
- ▶ To reuse the **same code many times in many documents**, we use `\usepackage` style files



# Style File contd.

- ▶ The `.tex` file containing the content will remain clean, if the styles are in separate `.sty` files



# Style File contd.

- ▶ **The `.tex` file containing the content will remain clean, if the styles are in separate `.sty` files**
- ▶ **Hence, it is advised to write and use style files**





# Defining standard style file

- ▶ **Let's modify our** style file **into a** standard style file



# Defining standard style file

- ▶ **Let's modify our** style file **into a** standard style file
- ▶ **The reason is, in the real-world you would want to share your style file with others**



# Defining standard style file

- ▶ Ideally it must adhere to the style file guidelines given by the  $\text{\LaTeX}$  community



# Defining standard style file contd.

**The structure of the style file can be summarized into 3 parts:**



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# Defining standard style file contd.

**The structure of the style file can be summarized into 3 parts:**

- ▶ **Identification - Package name and version**
- ▶ **Preliminary declarations - Details of required packages**
- ▶ **User code**



# Defining standard style file contd.

**More information on this guideline is available at:**

**[https://en.wikibooks.org/wiki/LaTeX/Creating\\_Packages](https://en.wikibooks.org/wiki/LaTeX/Creating_Packages)**





# Sharing .sty with Community



# Sharing .sty with Community

- ▶ **Upload the created** style file **on the** Comprehensive TeX Archive Network  
**<https://ctan.org/upload>**



# Sharing .sty with Community

- ▶ **Upload the created** `style` file **on the** Comprehensive TeX Archive Network  
<https://ctan.org/upload>
- ▶ **Provide proper documentation and read the guidelines before uploading**



# Summary

In this tutorial we learnt

- ▶ **Write a custom** style file
- ▶ **Import the custom** style file in a  $\text{\LaTeX}$  document
- ▶ **Define a standard** style file



# Assignment

- ▶ **Identify and make a list of different scenarios where creating a `style file` would be helpful**



# About Spoken Tutorial project

- ▶ Watch the video available at [https://spoken-tutorial.org/What\\_is\\_a\\_Spoken\\_Tutorial](https://spoken-tutorial.org/What_is_a_Spoken_Tutorial)
- ▶ It summarises 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)



# Answers for THIS Spoken Tutorial

- ▶ Questions in THIS Spoken Tutorial?
- ▶ Visit `https://forums.spoken-tutorial.org/`
- ▶ Choose the minute and second where you have the question
- ▶ Explain your question briefly
- ▶ The Spoken Tutorial project will ensure an answer

**You will have to register to ask questions**





# Acknowledgements

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# Thank you

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FOSSEE Summer Fellow 2019
- ▶ **The video has been created by Spoken Tutorial team, IIT Bombay**

