LATEX AN INNOVATIVE WAY OF CREATING DOCUMENTS

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INTRODUCTION TO LETEX

WHAT IS LATEX?

- LATEX is a system for typesetting your documents.
- Like any other programming languages, you write a code in LaTEX and compile it to give an output in PDF format.
- Pronunciation of LATEX:

LATEX

X

LAH-TEK



WHY LATEX?

- Results obtained from LATEX are wonderful!
- There are a variety of use cases of LATEX such as research paper writing, letter writing, presentations, visiting cards, sign boards, etc. very easily and accurately.
- Many top-notch institutes such as IITs, ICT Mumbai and almost all foreign institutes have made it mandatory to use LATEX.

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HISTORY OF LITEX

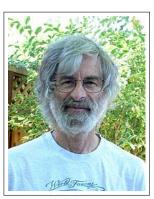


Donald Knuth Created T_EX in 1978 (1938 to Present)

• Donald Knuth wrote a book titled The Art of Computer Programming, which was first typeset using traditional hot metal typesetting, but when the second edition was published with the shift to phototypesetting and the unavailability of the original fonts, Knuth found the new results inferior and designed his own typesetting system called TeX.

HISTORY OF LITEX

Leslie Lamport created Lamport created Lamport created Lamport as a wrapper over TeX to make it easy to produce general-purpose books and articles using TeX.



Leslie Lamport Created IATEX in 1984 (1941 to Present)

WYSIWYG VS NON – WYSIWYG

Feature	WYSIWYG	Non-WYSIWYG
User Interface	GUI with visual representa-	Text-based interface with
	tion	code
Flexibility	Limited to predefined styles	You can create custom solu-
	and templates (WYSIAYG).	tions for free.
Integration	Limited integration with	Easier to integrate with dif-
	other systems.	ferent systems
Accuracy	May not always match out-	Has high accuracy - code di-
	put exactly	rectly affects output
Inserting Figures	It is daunting when you have	Once a figure is inserted, it
	some specific document for-	automatically adjusts itself to
	mat.	fit in the format.
Control over lay-	Visual control over layout	Precise and fine control by
out		code adjustments.

SOME USEFUL LIEX COMMANDS

textbf	Bold text	
textit	Italic text	
underline	Underlined	
	text	
includegraphics	To add images	
fbox	To add border	
	to images	
hline	Horizontal	
	Line	
hspace	Horizontal	
	Space	
vspace	Vertical Space	
itemize	Bulleted List	
enumerate	Numbered List	

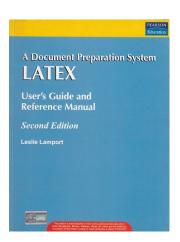
INSTALLING LATEX

INSTALLING LATEX

- LATEX can be installed on **Linux**, **Windows** and **Mac-OS** using *Tex Live*.
- Online LATEX editors are also available, both free and paid, but they have less features so are not recommended.
- If you want to use WYSIWYG tools and also want the features of LATEX, you
 can use LYX.
- You can install LATEX through this website: https://www.tug.org/texlive/
- You can install LYX through this website: https://www.lyx.org/

REFERENCES

REFERENCES



- https://www.overleaf.com/
- https://www.tug.org/texlive/
- https://tex.stackexchange.com/
- https://www.lyx.org/ And Many More...!

THANK YOU!

Link to download this presentation : http://arya.warunjikar.in/latex-presentation.pdf