

Document Preparing Sytem

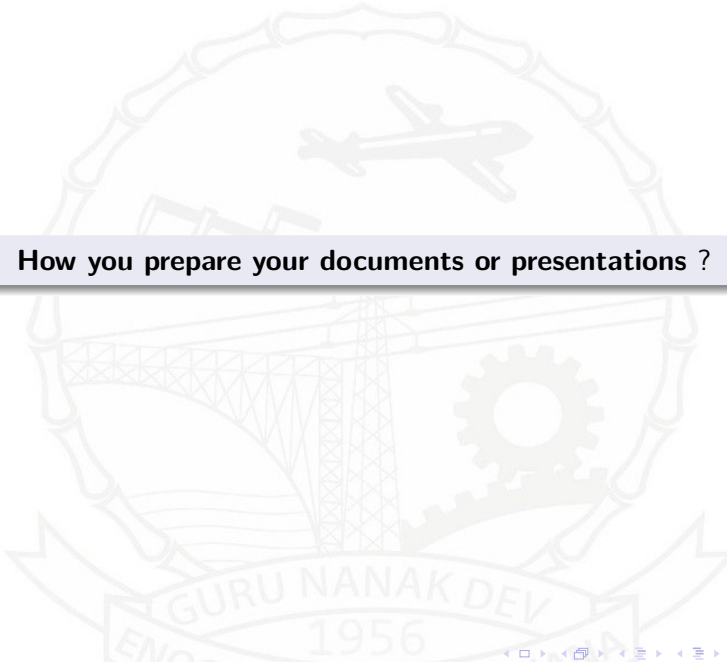
Jaspreet Kaur

jaspritsarao@gmail.com

Dept. of Computer Science

June 7, 2012





How you prepare your documents or presentations ?



May be you are using :

- MS Word
- Open office
- Libre office
- Wordpad
- Office suite etc



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You may follow this procedure:

- You provide the content
- For making it good looking, you do formatting using many tools available in the software.
- For formatting you spend several hours.
- Sometimes you forcefully do formatting.
- After this you save your documents



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Is this right way to make professional documents ?



Did you hear about any software to which you provide content and it will do formatting itself. Nothing to do with formatting.



Project name

Report

Six Month Training
at
Testing and Consultancy Cell, Guru Nanak Dev Engineering College
Ludhiana
(from January, 2011 to June, 2011)

Submitted By:
Jaspreet Kaur
D₃ C.S.E.
95072
9501507706



INFORMATION TECHNOLOGY
GURU NANAK DEV ENGINEERING COLLEGE
LUDHIANA



What is \LaTeX ?
 \LaTeX vs. MS Word/Open office
Advantages
How \LaTeX Works
Learn about \LaTeX

\LaTeX

Jaspreet Kaur
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Dept. of Computer Science

January 21, 2012

Guru Nanak Dev Engineering College

jaspreetsarao.wordpress.com





INTERVIEWS

Linux User Group
Ludhiana

Hurry up Students!!
Come and Grab your seats..
This is to inform all, Linux User Group (LUG) is Organising
Interviews For all years.
Note: Membership seats limited

BRING YOUR RESUME ALONGWITH YOU
(Mention Name, Branch, Year, Rollnumber, Hobbies,
Computer skills, And extra skills, Email id, Mobile number)

Time: 4:00 pm on 25 august 2011 (Thursday)
Venue: Room No. 15 & 16

For Queries, Contact:

Davinder Kumar (9592186878)
Parveen Arora (9780811747)
Parvinder Rajput (9815380689)
Members of Linux User Group
Ludhiana

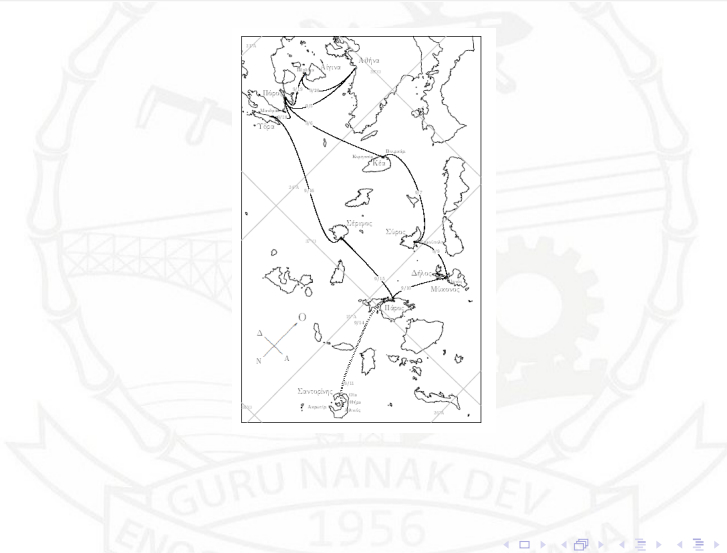


Shaping of text

Manpreet,
Diljot, Jasmeen, Rupin-
Ekta, Milan, Tanu, Ravneet,
dal, lovepreet, Raman, Gagan
Aujla, Prabhdeep, Mandeep, Harpreet, Lakhvir, Virpal, Arti, Mnakshi,
Shifa, Pushpinder, Kiran, Manpreet gill, Jaskaran, Jaspreet Nagra, Gurleen,
Sabiha, Shweta, Jagdeep Singh, Magan Maan, Kamal Sarao, Jaswinder jhaji,
Harminder Sandhu, Satinder Sandhu, Maninder Sandhu, Soninder Kaur,
Pamalpreet, Harman ghuman, Samandeep, Gurbinder, Arshpreet Singh,
Andhlee, Prabh Khehra, Sunny sarao, Gunjan, Shruti, Puneet, Amritpal,
Parveen, Davinder, Parvinder, Harjot, Vikas Marwaha, Vikas mahajan,
Harbhag Singh, Abhishek, Akshee, Amit, Arsh Randhawa, Bhavneet Nag-
pal, Ikramjeet Singh, Harmanpreet, Satinderpal, Chamandeep, Dalvir,
Dinesh, Emm kay, Gagan maan, Gursharan, Navdeep, Harpreet kaur,
Harneet Virk, Jasleen Dhillon, Jasleen walia, Jasmeet, jaspreet
Walia, Kamal maan, Kirtipreet, Komal Arora, Kuljeet Singh,
Lakhveer, Maninder, Manjinder, Meenu, Monika, Neeraj,
Parmeet, Prabhjot, Preet bal, Rajinder, Ramneet,
Ravdeep, Ravinder, Razia, Rema, Rims Ahuja,
Bhanghura, Sandeep Sandhu, Bhimmi, Sukh-
preet, Singh Inderjeet, Simran Cheema,
Shukhdeep, Suman Batth, Vignas,
H.S.Rai, K.S.Maan, Garry
Sahota, Surmit
Singh
♡



Map



Music

Andante KV 315
pour flûte et organe

W. A. Mozart
transcription pour flûte, harpiste et orgue
D. Tanguin

Flûte
Harpiste
Orgue

Andante KV 315 (W. A. Mozart / D. Tanguin)



Periodic table

Grupos																	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
IA	IIA	IIIB	IVB	VB	VIB	VIIb	VIIIb			IB	IIb	IIIA	IVA	VA	VIA	VIIA	VIIIA
1 H 1,01																	2 He 4,00
3 Li 6,94	4 Be 9,01											5 B 10,81	6 C 12,01	7 N 14,01	8 O 16,00	9 F 18,99	10 Ne 20,18
11 Na 22,99	12 Mg 24,31											13 Al 26,98	14 Si 28,09	15 P 30,97	16 S 32,06	17 Cl 35,45	18 Ar 39,95
19 K 39,10	20 Ca 40,08	21 Sc 44,96	22 Ti 47,90	23 V 50,94	24 Cr 52,00	25 Mn 54,94	26 Fe 55,85	27 Co 58,93	28 Ni 58,71	29 Cu 63,55	30 Zn 65,38	31 Ga 69,72	32 Ge 72,59	33 As 74,92	34 Se 78,96	35 Br 79,90	36 Kr 83,80
37 Rb 85,47	38 Sr 87,62	39 Y 88,91	40 Zr 91,22	41 Nb 92,91	42 Mo 95,94	43 Tc (98)	44 Ru 101,07	45 Rh 106,4	46 Pd 106,4	47 Ag 107,87	48 Cd 112,40	49 In 114,82	50 Sn 118,69	51 Sb 121,75	52 Te 127,60	53 I 126,90	54 Xe 131,30
55 Cs 132,91	56 Ba 137,34	57 La* 138,91	72 Hf 178,49	73 Ta 180,95	74 W 183,85	75 Re 186,21	76 Os 190,2	77 Ir 192,22	78 Pt 196,09	79 Au 196,97	80 Hg 200,59	81 Tl 204,37	82 Pb 207,2	83 Bi 208,98	84 Po (209)	85 At (210)	86 Rn (222)
87 Fr (223)	88 Ra 226,03	89 Ac** (227)	104 Rf (261)	105 Db (262)	106 Sg (263)	107 Bh (262)	108 Hs (265)	109 Mt (266)	110 Uun (269)	111 Uuu (272)	112 Uub (277)	113 Uut (282)					

*Lantanídeos	58 Ce 140,11	59 Pr 140,91	60 Nd 144,24	61 Pm (145)	62 Sm 150,36	63 Eu 151,96	64 Gd 157,25	65 Tb 158,92	66 Dy 162,50	67 Ho 164,93	68 Er 167,26	69 Tm 168,93	70 Yb 173,04	71 Lu 174,97	
**Actinídeos	90 Th 232,04	91 Pa 231,04	92 U 238,03	93 Np 237,05	94 Pu (244)	95 Am (243)	96 Cm (247)	97 Bk (247)	98 Cf (251)	99 Es (257)	100 Fm (257)	101 Md (258)	102 No (259)	103 Lr (260)	

Metais

Metalóides

Metais de transição

Não-metais

Gases nobres



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Up: [yaadein](#) Previous: [Contact](#)

YAADEIN

The Preserving Memories

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About this document

This document was generated using the [LaTeX2HTML](#) translator Version 2008 (1.71)

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The command line arguments were:

`latex2html yaadein.tex`

The translation was initiated by Jaspreet Sarao



Jaspreet Sarao



$$\int_{-\infty}^{\infty} e^{-x^2} dx = \sqrt{\pi}$$

$$f(x) = a_0 + \sum_{n=1}^{\infty} \left(a_n \cos \frac{n\pi x}{L} + b_n \sin \frac{n\pi x}{L} \right)$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$





Any idea how this is possible ?



All the things were done in \LaTeX



What is \LaTeX ?

- \LaTeX is a document preparation system.
- It is used for high-quality **typesetting**
- With it, you can create **beautiful, professional** looking documents.
- \LaTeX is open source.



Why \LaTeX was developed ?



Why \LaTeX was developed ?

When Donald Ervin Knuth was working on his monumental book *The Art of Programming* was not happy with the type-setting for his book. So he created a type-setting system that would let him concentrate on the content of the book rather than getting the type-setting software distracting and getting him worried about formatting the output. **That's** why **He** designed \TeX .



Uses of \LaTeX

- Simple documents
- Reports
- Presentation
- Thesis
- Books
- Posters
- Resume and CVs
- Letters
- Forms
- Question papers
- Calender
- Diary etc..



Why we should use \LaTeX !!

How is it better than other processors?

\LaTeX



OpenOffice.org



So let me take your time and explain exactly why I choose to use **L^AT_EX**, and why you should consider learning it.



Simply

- **\LaTeX is open source**
- No need of Word, or Powerpoint, or other proprietary Software
- \LaTeX is platform independent
- Secure and fast
- No problem of package version
- \LaTeX focus on content without bothering about the layout.



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How \LaTeX is best?



The most striking difference between text produced by **Word** or **Open Office** and **L^AT_EX** is the quality of the output.



\LaTeX is not just a mere word processor

- It is a typesetting software
- It does kerning
- Hyphenation automatically.

This means that your text is always beautifully justified and balanced across the page.



Example

ACKNOWLEDGEMENT

The author is highly grateful to the Dr. M.S. Saini (Director, Guru Nanak Dev Engineering College, Ludhiana) for providing this opportunity to carry out the six weeks training at Testing and Consultancy Cell, Guru Nanak Dev Engineering College, Ludhiana.

The author would like to express a deep sense of gratitude and thanks profusely to Dr. H.S. Rai (Dean, Testing and Consultancy Cell, Guru Nanak Dev Engineering College, Ludhiana). Without the wise counsel and able guidance, it would have been impossible to complete the report in this manner.

The author express gratitude to other faculty members of Computer Science department of Guru Nanak Dev Engineering College for their intellectual support throughout the course of this work.

Finally, the author is indebted to all whosoever have contributed in this report work including Bhavneet Singh, Ikramjit Singh, Jagdeep Singh Malhi, Parveen Kumar (D₄ IT), Parvinder Rajput (D₄ IT), Davinder Singh (D₄ CSE), Vikas Mahajan (D₄ IT) and Harjot Kaur (D₄ IT). Without their encouragement it would not have been possible to complete the project in such an efficient manner.

Figure: L^AT_EX output

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Figure: Libreoffice's output



Kerning

Kerning is the process of selectively adjusting the spacing between letters pairs to improve the overall appearance of text. In Ms word this is done **done** **maually** but \LaTeX do it automatically.



Example

MS Word (wrong default kerning for the "Ta" letter pair)

Table

Figure: MS Word's output

L^AT_EX (correct kerning for the "Ta" letter pair):

Table

Figure: L^AT_EX's output



Common Ligatures

MS Word (common ligature errors):

fire flower fjörd

Figure: MS Word's output

L^AT_EX (correct use of ligatures):

fire flower fjörd

Figure: L^AT_EX's output



Common Ligatures

$AE \rightarrow \mathcal{A}E$	$ij \rightarrow ij$
$ae \rightarrow \mathcal{a}e$	$st \rightarrow \hat{s}t$
$OE \rightarrow \mathcal{O}E$	$ft \rightarrow ft$
$oe \rightarrow \mathcal{o}e$	$et \rightarrow \&$
$ff \rightarrow ff$	$fs \rightarrow \beta$
$fi \rightarrow fi$	$ffi \rightarrow ffi$

Figure: Typical ligatures in Latin script



\LaTeX is used for mathematical equations

- Construction of mathematical formulas is one of the greatest motivating forces for Donald Knuth when he began developing the original TeX system.
- Basically \LaTeX is designed for mathematical equation.
- Typesetting mathematics is one of \LaTeX 's greatest strengths.



Example

$$\int_{-\infty}^{\infty} e^{-x^2} dx = \sqrt{\pi}$$

$$f(x) = a_0 + \sum_{n=1}^{\infty} \left(a_n \cos \frac{n\pi x}{L} + b_n \sin \frac{n\pi x}{L} \right)$$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

Figure: L^AT_EX's output

$$x = \frac{(-b \pm \sqrt{b^2 - 4ac})}{2a}$$

Figure: MS Word's output



Line breaks, justification and hyphenation

Advanced hyphenation/justification in L^AT_EX:

‘Oh, I’ve had such a curious dream!’ said Alice,
and she told her sister,
as well as she could remember them, all these
strange Adventures of hers



- Table of Contents in \LaTeX can be generated in just a single click using the following command:
- No need to do extra work
- It saves your time.



Contents

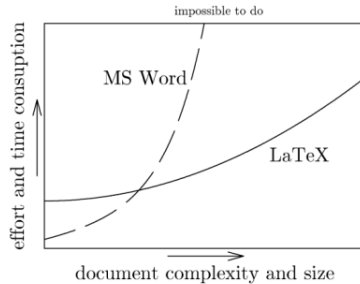
1	Introduction To Organisation	1
1.1	TESTING AND CONSULTANCY CELL	2
2	Intoduction of project	3
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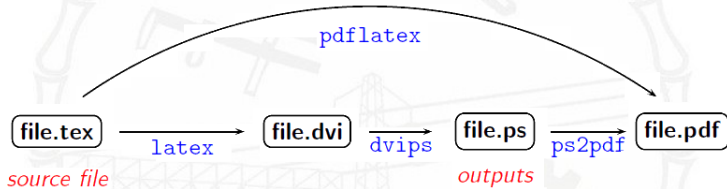
Example of WYSYWYG



Graph between time and complexity



How \LaTeX Works ?



Advantages of \LaTeX Output

① dvi file

This is used for printing purposes

② pdf file

Final output of \LaTeX is pdf. pdf is device independent.
Hence it is secure.



Who is \LaTeX for?

- College Students
- Grad Students
- Writers
- Scientists and Researchers
- Professors
- Developers
- You



In the end I would like to say:

“If you care about creating polished and stylish documents, and if you have a sense of aesthetics, try **LaTeX! Believe me, you’ll most likely fall in love with it and use it for the rest of your life!”**





Any Question?





Thank You

