The Joys of LATEX: An Entry Guide for the Potentially Obsessive

Kent A. Peacock

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Kent A. Peacock The Joys of LATE

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- LATEX is a document formatting system widely used in technical subjects such as logic, math, physics, linguistics, computer science, philosophy of science...
- It has been in use since the 1980s and remains the industry standard; nothing else compares in the quality of output and the huge range of symbols and images that can be produced—if you know how!!
- LATEX allows you to format beautiful equations beautifully:

$$R_{\mu\nu} - \frac{1}{2} g_{\mu\nu} R = T_{\mu\nu} \tag{1}$$



• LATEX is based on TEX, created by Donald Knuth (1938–) in the 1970s.



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 N.b.: T_EX is pronounced "tech" with a gutteral "ch" as in "Loch". (It is derived from the Greek τεχνη, "techne.")



 In 1986, Leslie Lamport (1941–) created LATEX, a system of macros written in TEX designed to simplify document preparation.



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TEX versus LATEX

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- Drawback: if all you want to do is write papers in logic etc., it is too much work to construct your documents entirely from scratch.
- So Lamport wrote a set of TEX commands (macros) which define standardized ways of setting up papers, books, etc. It has all the power of TEX if you want to use it but greatly speeds up most formatting tasks.

The LATEX Community

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- There are several versions of LATEX available via free download.

LATEX vs. Word

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- The output file can be in several forms but these days it is most commonly .pdf, which is almost universally used and very stable (unlike Word!!).

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- The file is processed by a compiler which generates an output file with all type, graphics as you commanded; usually in .pdf form.

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- You can "store" templates, out-takes, or comments after the \end{document} since nothing after that statement is processed.

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• Just type: text will wrap automatically; LATEX interprets an extra line as a paragraph break. But spaces between letters are ignored.

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- Structure can be defined using \chapter (in the book class), \section, \subsection, etc.

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• There are "list-making environments" that generate bulleted lists, numbered lists, etc.

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- The command \dots gives ellipsis ...

Graphics

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- With the graphicx package it is quite easy to include illustrations.

The Little Things That Make Your Work Look Professional

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 - Use two hyphens to form en-dash -, as in date or number ranges. ("Read pp. 44-55 of the text.")
 - Use three hyphens to form em-dash, which is a punctuation dash used for an emphatic break. ("No candidate—not even Clinton—has said enough about climate.")

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- Greek letters can be done in math mode: $\lambda \$ gives α .
- Or you can display your math in a huge variety of ways (especially using amsmath).

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Display Math

```
\begin{equation}
   \int_{-\infty}^{\infty} \,e^{-x^2} dx = \sqrt{\pi}
\end{equation}
```

gives

$$\int_{-\infty}^{\infty} e^{-x^2} dx = \sqrt{\pi}.$$
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- $\frac{1}{2x^3+3x=7}$ when x=1 gives

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Combining Text and Math

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- $\frac{1}{2} = \frac{1}{3} = 0$ when x=1 gives

$$x^3 + 3x = 7$$
 when $x = 1$.

- Note: I put the whole line in \text because that gets the spacing right!
- Word to the wise: use math mode for symbols in text that are mathematical. E.g., say let \$p\$ be a prime such that, not let p be a prime such that...

Logic Symbols

• $\mbox{\sc BT}_{E\!X}$ has all the standard logic symbols: $\exists, \ \forall, \ \lor, \ \supset, \ \neg, \ etc.$



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Logic Symbols

- LATEX has all the standard logic symbols: $\exists, \; \forall, \; \lor, \; \supset, \; \neg, \; etc.$
- There is a package that does Fitch notation, and several that do truth trees (though this remains a work in progress).

Macros

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Kent A. Peacock The Joys of LATE

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- Example of usage: \$\Russell xFx\$ gives $i \times Fx$, which is read, "The x such that Fx".

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Macros with Parameters

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- So $\left| \psi \right\rangle.$
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• Use \cite[p. 3316--7] {AA80} to cite this reference.

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 - It integrates with other citation management systems such as Zotero.
- Disadvantage: BibTeX can be temperamental and there is a learning curve to climb.

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- Warning! LATEX is addictive!



See

http://scholar.ulethbridge.ca/kentpeacock/resources.



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