

Introduction to L^AT_EX

Meirian Lovelace-Tozer

⚙ <http://go.unimelb.edu.au/6mhi>

<https://meirian.gitbook.io/latex>

What is \LaTeX ?

/ˈleɪtɛks/



What is \LaTeX ?

$/\text{'leɪt}\epsilon\text{k}/$ or
 $/\text{'l}\alpha\text{:t}\epsilon\text{k}/$



What is L^AT_EX?

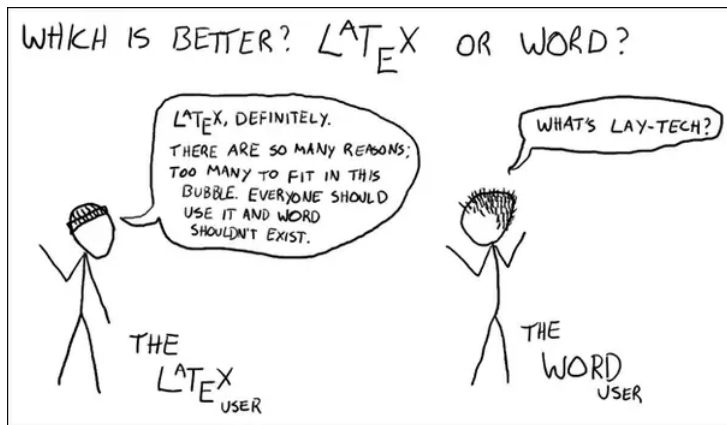
L^AT_EX

What is \LaTeX ?

\LaTeX

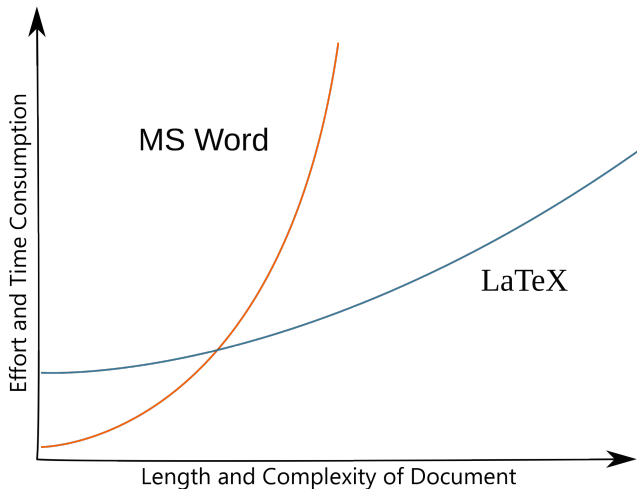
- \LaTeX is a programming language for high-quality, beautiful typesetting.
- Typesetting is the science and art of positioning type on a page in preparation for publishing.

Why use \LaTeX ?



Nabil Elqatib, Fanatic \LaTeX user.

Why use \LaTeX ?



The history of \LaTeX



Figure: Prof. Emeritus Donald E. Knuth

The history of \LaTeX



Figure: Prof. Emeritus Donald E. Knuth

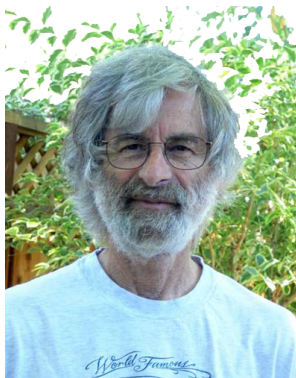


Figure: Dr. Leslie B. Lamport

Document classes

- books,
- journal articles,
- technical reports,
- IEEE transactions,
- proceedings,
- résumés/CVs,
- letters,
- memoirs,
- posters,
- slide presentations.

Getting started

```
\documentclass{book}
```

Getting started

```
\documentclass{article}
```

Getting started

```
\documentclass{article}
```

```
\begin{document}
```

```
\end{document}
```

Getting started

Hello World!

```
1 \documentclass{article}
2
3 \begin{document}
4
5     Hello World!
6
7 \end{document}
```

Getting started

```
\ title {My Title}  
\ author {My Name}  
\ date {\ today}
```

Getting started



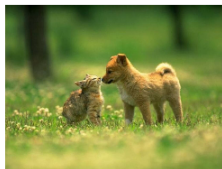
```
1 \documentclass{article}
2
3 \title{My Title}
4 \author{My Name}
5 \date{\today}
6
7 \begin{document}
8
9     \maketitle
10     Hello World!
11
12 \end{document}
```


Learning objectives

- Basic \LaTeX document;
- Title and author;
- Sharing is caring;
- Inserting images.

Animals

An article about animals.



`www.overleaf.com`

`www.overleaf.com/edu/unimelb`

How to Share your \LaTeX Projects on Overleaf

`http://go.unimelb.edu.au/z4hi`

Sharing is caring

- Come up with a team name!
- Select one member of your team to create an Overleaf document and share this with the group by pasting the edit link in the Zoom chat;
- Set your team name as the `\author{□}`;
- Choose your favourite animal and give your article an appropriate `\title{□}`.

Why use \LaTeX ?

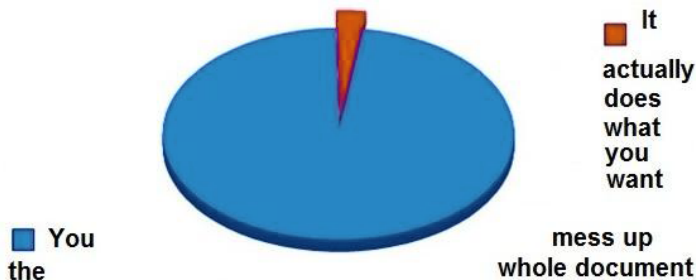
Moving a picture in Microsoft Word



- It actually does what you want
- You mess up the whole document

Why use \LaTeX ?

Moving a picture in Microsoft Word



Challenge

- Insert an image of your animal using the `figure` environment.
- Give your image a clever and creative caption!
- When you return, share a link to your Overleaf document in the group chat and present it to the group.
- *Hint:* Don't forget to use the `graphicx` package.
- *Bonus challenge:* Can you change the height and width of your image instead of rescaling it?
- *Bonus challenge:* Use the `label` to refer to your figure.

What did we learn?

Kahoot Quiz!

`http://kahoot.it`

Learning outcomes:

- I can create and share a \LaTeX document.
- Given an image, I can generate a figure in a \LaTeX document.

Thank you

Thanks for coming — I hope you enjoyed the workshop!

- Feedback survey: <http://go.unimelb.edu.au/xz2i>
- Find all my favourite resources here:
<https://meirian.gitbook.io/latex>
- Digital skills support on Slack:
<http://go.unimelb.edu.au/6mhi>
- Upcoming events: <http://go.unimelb.edu.au/ye2i>