

# Getting Started with L<sup>A</sup>T<sub>E</sub>X

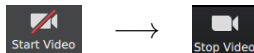
Meirian Lovelace-Tozer

@MeirianLT @ResCom\_unimelb 

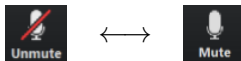
<https://meirian.gitbook.io/latex>

# Welcome

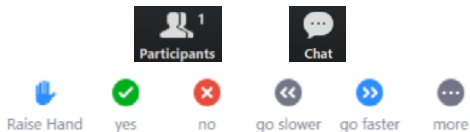
- Please turn on your video:



- Check your microphone:



- Open Participants and Chat:



- During breakout rooms, click Ask for Help to call me:



# Getting Started with L<sup>A</sup>T<sub>E</sub>X

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

# What is $\text{\LaTeX}$ ?

`/ˈleɪtɛks/`



# What is $\text{\LaTeX}$ ?

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



What is L<sup>A</sup>T<sub>E</sub>X?

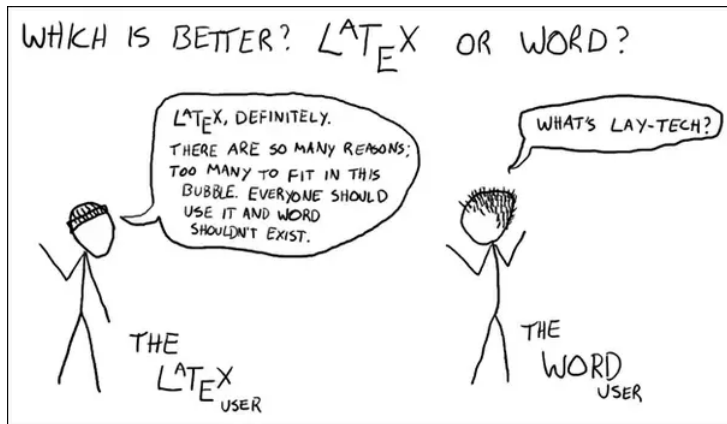
L<sup>A</sup>T<sub>E</sub>X

# What is $\text{\LaTeX}$ ?

$\text{\LaTeX}$

- $\text{\LaTeX}$  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.

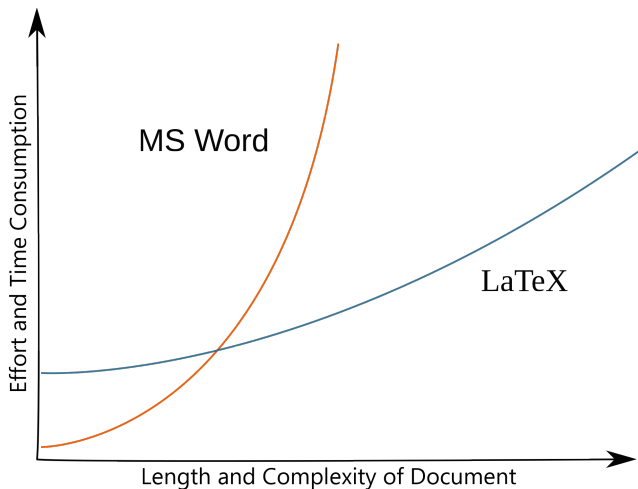
# Why use $\text{\LaTeX}$ ?



Nabil Elqatib, Fanatic  $\text{\LaTeX}$  user.



# Why use $\text{\LaTeX}$ ?



# The history of $\text{\LaTeX}$



**Figure:** Prof. Emeritus Donald E. Knuth

# The history of $\text{\LaTeX}$



Figure: Prof. Emeritus Donald E. Knuth

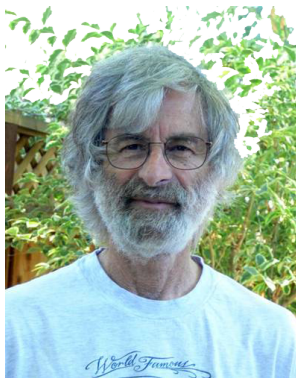


Figure: Dr. Leslie B. Lamport

# 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



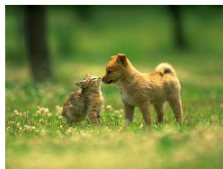
```
1 \documentclass{article}
2
3 \title{My Title}
4 \author{My Name}
5 \date{\today}
6
7 \begin{document}
8
9     \maketitle
10     Hello World!
11
12 \end{document}
```

# Learning objectives

- Basic  $\text{\LaTeX}$  document;
- Title and author;
- Sharing is caring;
- Lists (ordered and unordered);
- Tables.

## Animals

An article about animals.



`www.overleaf.com`

`www.overleaf.com/edu/unimelb`

# Sharing is caring

- Introduce yourselves.
- 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{\square}`.

# Lists challenge

- Create a list of things which can happen during a video call using the `itemize` environment.
- Create a shopping list of items you would like to buy while you're self-isolating. Use the `enumerate` environment to order the items on your list by priority.
- *Bonus:* Include a sub-list in one of your lists.
- \* *Bonus:* Can you customise the bullets of your list? Turn a bullet point into an asterisk: `*`.

# Bingo

Share a file on Overleaf	Create a table	Attend a LaTeX workshop
Tweet about #LaTeX	Free space	Download TeX on your PC
Use BibTeX	Create a list	Search for something on Google

# Tables challenge

- In your document, create a 3x3 bingo table for video conference calls.
- When you return from breakout rooms, share a (read only) link to your Overleaf document in the group chat.
- *Hint:* You may use `tablesgenerator.com`
- *Bonus:* Figure out how you can set the width of your table's columns (you may need to Google this!)
- *Bonus:* If you have extra time, expand your table to be  $4 \times 4$  and/or create a free space and shade this cell in a different colour.



# Thank you

Thanks for coming — I hope you enjoyed the workshop!

- Feedback survey
- Find all my favourite resources here:  
<https://meirian.gitbook.io/latex>  
(don't worry, I'll send a follow-up email with this link!)
- Interested in becoming a leader?  
Let me know by responding to the follow-up email 😊