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

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

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

L<sup>A</sup>T<sub>E</sub>X is a system for high quality typesetting of documents.

L<sup>A</sup>T<sub>E</sub>X (first rel. 1984 by L. Lamport) is a set of macros for T<sub>E</sub>X.

T<sub>E</sub>X (first rel. 1978 by D. Knuth) is a low-level language created to typeset documents.

The purpose of L<sup>A</sup>T<sub>E</sub>X is to simplify T<sub>E</sub>X typesetting.

For a fistful of fonts

When a man with  $\text{\LaTeX}$  meets a man with a WYSIWYG word processor, the man with  $\text{\LaTeX}$  is a dead man!

... let's see if that's true.

## Why use L<sup>A</sup>T<sub>E</sub>X

- ↪ Professional-looking documents. Professionally crafted additional layout available
- ↪ Advanced typesetting of mathematics.
- ↪ Consistency throughout the document and easy generation of complex structures such as footnotes, references, table of contents, and bibliographies
- ↪ Plenty of free add-on packages
- ↪ L<sup>A</sup>T<sub>E</sub>X encourages authors to write well-structured texts
- ↪ It's free software (both as in free beer and free speech)<sup>1</sup>

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<sup>1</sup><https://www.gnu.org/philosophy/free-sw.en.html>

# What you can use L<sup>A</sup>T<sub>E</sub>X for

The image displays a musical score for the song "The Colours of the Sea" by The Beatles. The score is written in treble clef with a key signature of one flat (B-flat) and a time signature of 4/4. It consists of four staves of music. The first staff contains the first two measures, with a first ending bracket over the second measure. The second staff contains measures 3 through 4. The third staff contains measures 5 through 7. The fourth staff contains measures 8 through 9, with a trill (tr) indicated over the eighth measure. Below the music are four guitar chord diagrams for D, Cadd9, G/B, and Gm/Bb. To the right of the music are three chessboard diagrams illustrating chess moves: 1. e4, 1...e5 2. Qf3 Qc6 3. d4, and 3...exd4 4. Kb5 a6 5. O-O.

1 e4

1...e5 2 Qf3 Qc6 3 d4

3...exd4 4 Kb5 a6 5 O-O

D Cadd9 G/B Gm/Bb

And the colours of the sea blind your eyes with trembling mermaids

## What you will take home

- ↪ Overview of L<sup>A</sup>T<sub>E</sub>X workflow
- ↪ L<sup>A</sup>T<sub>E</sub>X basic features including
  - ↪ Document's info (title, author)
  - ↪ Document sectioning
  - ↪ Inclusion of figures and simple tables.
  - ↪ Inclusion of simple math formulae
  - ↪ Bibliography management
- ↪ Know where/how to find further documentation about L<sup>A</sup>T<sub>E</sub>X.