

# LaTeX Course UniTO

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## Somari

This is a short explanation of the reasons why LaTeX is superior to Word. Blah blah blah

## 1 Preliminaries

MS Word sucks! LaTeX is a **much better alternative**. Blah blah blah

## 2 More Preliminaries

The most important essay in 19th-century philosophy is Frege's "Über Sinn und Bedeutung".

Die Gleichheit fordert das Nachdenken heraus durch Fragen, die sich daran knüpfen und nicht ganz leicht zu beantworten sind. Ist sie eine Beziehung? eine Beziehung zwischen Gegenständen? oder zwischen Namen oder Zeichen für Gegenstände?

This is the beginning of Frege's essay.

## 3 Main Part

The first line of code declares the type of document, known as the class. The class controls the overall appearance of the document. Different types of documents will require different classes i.e. a CV/resume will require a different class than a scientific paper. In this case, the class is article, the

simplest and most common LaTeX class. Other types of documents you may be working on may require different classes such as book or report.

If you are using a basic text editor such as gedit, emacs, vim, sublime, notepad etc., you will have to compile the document manually. To do this, simply run `pdflatex <your document>` in your computers terminal/command line. See here for more information on how to do this.<sup>1</sup>

If you are using a dedicated LaTeX editor such as TeXmaker or TeXworks, simply hit the Recompile button. Consult the programs documentation if you are unsure of where this is.<sup>2</sup>

Now that you have learnt how to add content to our document, the next step is to give it a title. To do this, we must talk briefly about the preamble.<sup>3</sup>

The advantages of using LaTeX are manifold:

1. Professional typesetting.
  - Control of pagebreaks.
  - Automatic placements of figures and floats.
2. Consistency of cross-references.
3. Great bibliography management.
4. Cool formulas.

**LaTeX** Great thing!

**Word** Poor program.

Newton's second law  $F = m \cdot a$  is very famous.

Newton's second law

$$F = m \cdot a$$

is very famous. Newton's second law

$$F = m \cdot a \tag{1}$$

$$E = mc^2 \tag{2}$$

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<sup>1</sup>Most coffeeplaces in Germany suck.

<sup>2</sup>My Dutch PhD student Noah believes that you get the world's best coffee in Rotterdam.

<sup>3</sup>Forza Toro, Juve merda.



Figura 1: It is nice to start the day with a cup of coffee! Here is one specimen.

is very famous. A sequence with elements  $x_0$  and  $x_1...$

$$F \leq m \cdot a \qquad E \geq mc^{21} \qquad (3)$$

A logical entailment:  $\Gamma, \alpha \models \beta$

In classical logic,  $\neg\neg a$  is equivalent to  $a$ . In classical logic,  $\neg(a \wedge b)$  is equivalent to  $\neg a \vee \neg b$ .

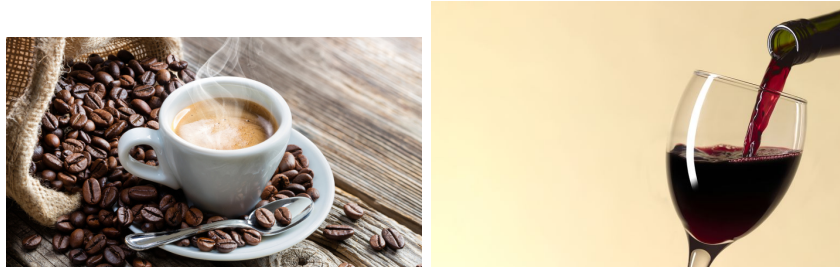


Figura 2: It is nice to start the day with a cup of coffee! But also wine is nice.

## 4 Conclusions

Equation 1 is one of the most important achievements of physics. Figure 2 is nice! This cross-reference ?? is empty.

It is obvious that students should write their papers and theses in LaTeX. The arguments have been explained in detail in Section 3. An informal motivation has been provided on page 1. q.e.d. Footnote 3 tells a true thing.

We conclude the sample file with a table of contents.

## **Tàula**

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