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Tartalomjegyzék

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Latex

Install

- Windows
 - ◆ First install [MikTeX](#)
 - ◆ Then install [TeXMaker](#)
- Mac
 - ◆ First install [MacTeX](#)
 - ◆ Then install [TeXMaker](#)
- Linux

```
sudo apt-get install texlive
```

- ◆ Then install [TeXMaker](#)

First LaTeX file

- Copy the following code into an empty file! Save it as **template1.tex**! It's important to have the file in **utf-8** encoding, since we specify that in the `\usepackage[utf8]{inputenc}` line.

```
\documentclass{article}

\usepackage[T1]{fontenc}           % internal encoding
\usepackage[utf8]{inputenc}         % input encoding
\usepackage[english]{babel}        % language
\usepackage{lmodern}              % font, even if you use the default one

\usepackage{amsmath, amssymb}       % math packages
\usepackage{amsthm}                % theorem-like environments
\usepackage{graphicx}              % for embedding pictures

\title{}                          % this can be left empty
\author{}                         % this can be left empty
\date{}                           % this can be left empty

\begin{document}
```

```
\maketitle
\tableofcontents
\section{ }
\subsection{ }
\end{document}
```

- Duplicate the **template1.tex** into another file named **latex1.tex** and in this new one fill the empty blocks (Lorem Ipsum, if you have no inspiration), compile the code, and then view it with the following command:

```
pdflatex latex1.tex
xpdf latex1.pdf &
```

TexMaker

- We highly recommend using a latex editor from now on. TexMaker is a platform independent editor, you can compile the edited file with the F1 button.
- If everything went smoothly up until this point, then put a few errors in the code and then try to compile it again. (You'll see red error messages at the bottom of TexMaker.)
- Try to write a few formulas, you can use the help here, it's in hungarian, but the formulas are universal.
- Reproduce your current or last week's homework in latex.

LaTeX practice

Start with this syllabus (you have to compile it yourself).

- Try the different font styles (texttt, textsf, uppercase, textbf, textit, emph, textsl, etc.)! Change the size of the text: tiny, normalsize, large etc.!
- Create lists (enumerate, itemize, description, nested)! Change the numbering of enumerate to roman numerals!
- Create a table with the tabular environment. Try to align the text left/right/center! Use the \hline and \vline commands!
- Math environments:
 - ◆ Try inline and display style environments as well
 - ◆ Fractions, roots, superscripts, subscripts (left és right)
 - ◆ Equations (equation, eqnarray, align)
 - ◆ Theorem, definition, lemma (numbering, reference)
- References

Help yourself

- https://rpi.edu/dept/arc/training/latex/LaTeX_symbols.pdf
- <http://detexify.kirelabs.org/classify.html>
- <https://tex.stackexchange.com/>
- [Hungarian demo](#)
- Differential d symbol:

\def\dd{\mathbf{d}}

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