LaTeX Article Template

Author: Harald Lønsethagen

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1 Introduction

This is a template latex project ment to be used when creating new LATEX documents. You could easily copy this .tex file and delete all content, and then use what you need. I have included many examples of how you can use different features of LATEX, hopefully making it easy for you to get started.

Pro tip: type 'new_latex' in the terminal to generate a new latex project at your current working directory¹.

```
Listing 1: Example of getting started
harald@harald-tower:~$ cd ~/Documents/
harald@harald-tower:~/Documents$ new_latex
New LaTeX project name: test_project

Successfully generated new LaTeX project files in path:
/home/harald/Documents/2018-03-23_test_project_latex
```

2 Links

This is a link, which is clearly marked by the blue color. You can define the color in 'packages.tex'. You could link by doing like this: www.vg.no.

¹This assumes you have installed Linux Tricks

3 Figures

Here you have a nice image of the universe in Fig. 1.



Figure 1: The Universe

Getting a figure to be right where you want it can be a struggle. I recommend using the 'H'-tag.

4 Sections

4.1 Subsections

This is what a subsection looks like and can be written as such:

\subsection{}

Check the .tex file to see how I can escape LaTeX-commands,

4.1.1 Subsubsections

You can also make subsubsections.

\subsubsection{}

Is is **not** possible to make subsubsubsections.

5 Textmodification

You can change the font with simple commands.

Ibsens ripsbærbusker og andre buskvekster, samt en djerv dvergbjerk

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6 Lists

6.1 Numbered lists

- 1. This is the first 'item' in the list
- 2. You could have many items
- 3. Just ramble along
- 4. Tip: Don't use dot on the end of the line in a list

6.2 Bullet list

- This is the first *item* in the bullet list
- If there is no reason to number a list, then use a bullet list

6.3 Lists within a list

- Sometimes it is nice to have a list within a list
- This is still the first list
 - This is an item in the list within a list
 - Item 3.2
 - * A list within a list within a list
 - · This is the **deepest** level of lists within a list which is possible
- Another item
 - 1. It is possible to have a numbered list within a bullet list
 - And to make a bullet list within a numbered list within a bullet list

7 Mathematical formulas

IATEX is a fantastic tool for presenting mathematical formulas and calculations. It can take some while to get used to, but when you get over the initial bump, you can make your document look like **porn**.[1]

$$\cos(2\theta) = \cos^2\theta - \sin^2\theta$$

Next is an equation:

$$\cos(2\theta) = \cos^2\theta - \sin^2\theta \tag{1}$$

$$\lim_{x \to \infty} \exp(-x) = 0 \tag{2}$$

$$\lim_{x \to \infty} \exp(-x) = 0 \tag{3}$$

$$\frac{n!}{k!(n-k)!} = \binom{n}{k} \tag{4}$$

$$\sum_{i=1}^{10} t_i \tag{5}$$

$$\int_0^\infty e^{-x} dx \tag{6}$$

More LATEX symbols.

$$\sum,\prod,\bigsqcup,\bigoplus,\bigotimes,\bigcirc,\bigcup,\bigcap,\biguplus,\bigcup,\bigvee,\bigwedge,\int,\oint,\iint[3],\iiint[3],\iiint[3],\iiint,[3],\int[3]$$

$$(a),[b],\{c\},|d|,\|e\|,\langle f\rangle,\lfloor g\rfloor,\lceil h\rceil,\lceil i\rceil$$

References

[1] D. Adams. The Hitchhiker's Guide to the Galaxy. San Val, 1995.