



L^AT_EX
Tutorial

Johan
Burström

Introduction

Getting started
Sharelatex

CV template
Newcommand
Minipage

Protocol
Template
Packages
Counters

A bit more
commands

Playaround

L^AT_EX Tutorial

gotta TeX good.

Johan Burström

May 7, 2015



Outline

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Introduction to \LaTeX

"How hard can it be?"

\LaTeX
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- Go and download miktex, texmaker, texstudio, kile or some else TeX-editor



Introduction to L^AT_EX

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- ~~Go and download miktex, texmaker, texstudio, kile or some else TeX-editor~~
- Just go to <http://www.sharelatex.com> instead



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Click here to use ShareLaTeX in **Swedish** 

SHARELATEX

Plans & Pricing

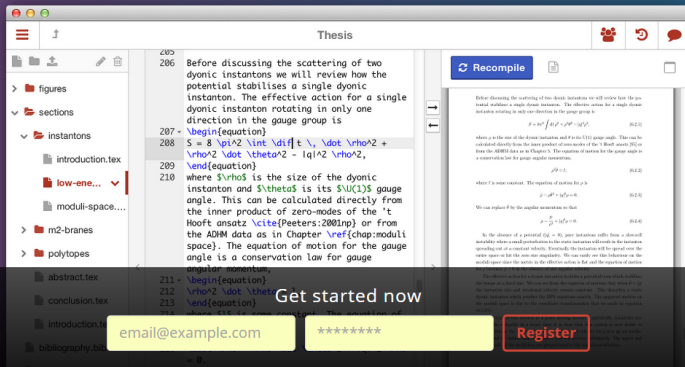
Help -

Register


Login

LaTeX, Evolved

The easy to use, online, collaborative LaTeX editor




The screenshot shows the ShareLaTeX web interface. On the left is a sidebar with a file explorer showing a project named 'Thesis' with subfolders like 'figures', 'sections', and 'instantons'. The main editor area displays a LaTeX document with text and code. The text discusses dyonic instantons and the effective action. The code includes LaTeX commands like
$$S = 8\pi^2 \int dt \int d^3x \left(\frac{1}{2} \text{Tr} F_{\mu\nu}^2 + \dots \right)$$
. On the right is a preview window showing the rendered document. At the bottom, there are input fields for an email address (email@example.com) and a password (*****), and a 'Register' button.

Click here to use ShareLaTeX in **Swedish** 

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New Project


Create your
first project!

Welcome to ShareLaTeX!

New to LaTeX? Start by having a look at our [templates](#) or [LaTeX help guide](#),
or create your first project on the left.

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ShareLaTeX

Help and Templates!

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ShareLaTeX guides

Creating a document in ShareLaTeX

Uploading a project

Creating a project from a template

Including images in ShareLaTeX

Exporting your work from ShareLaTeX

Using bibliographies in ShareLaTeX

Sharing your work with others

Debugging Compilation timeout errors

LaTeX Basics

Creating your first LaTeX document

Choosing a LaTeX compiler

Paragraphs and new lines

Bold, italics and underlining

Lists

Mathematics

Mathematical expressions

Subscripts and superscripts

Brackets and Parentheses

Fractions and Binomials

Documentation

Welcome to the ShareLaTeX knowledge base. A complete list of topics is provided on the left hand side, but here are a selection of useful articles:

New to LaTeX?

- Create your first document in LaTeX
- Paragraphs and new lines
- Bold, italics and underlining
- Lists
- Mathematics
- Bibliographies and references
- Images
- Tables

ShareLaTeX guides

- Create your first ShareLaTeX document
- Uploading a project
- Copying a project
- Creating a project from a template
- Including images in ShareLaTeX
- Exporting your work from ShareLaTeX
- Using bibliographies in ShareLaTeX
- Sharing your work with others
- Debugging Compilation timeout errors

Languages

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Templates

Search template library...

Missing Templates

Bibliographies

<p>bibtex-template</p>	<p>thebibliography</p>	<p>natbib</p>	<p>biblatex</p>
------------------------	------------------------	---------------	-----------------

View all 8 Bibliographies templates »

Books

<p>book</p>	<p>book</p>	<p>book</p>	<p>book</p>
-------------	-------------	-------------	-------------



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L^AT_EXCV-template

Can be found in the facebook event.

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Templates › Latex_template



SSB Schenström
011-000-00-00 (Mobilnummer)
E-post: ssa@ssb.se
Website: http://www.wikipedia.org/wiki/SSB

Via 219
Longway, Sweden

Utbildning

- Luleå Tekniska Universitet
Studier till Civilingenjör i Datateknik

Luleå
Började år 20XX

Utmärkelser och andra meriter

20XX Världligt dräkting på att slämma
"en massa fina ord som varför jag är dräkting på att slämma"

Arbetslivserfarenhet

- Simskolelärare
Simskolelärare
- Simmar bra och lär andra simma bra

Luleå, Sweden
Fören 20XX-Nuvarande

Funny

joke-stuff I have so many jokes they go up in the ceiling.
YYYY-XXXX Nancy-Seals veteran.
eller annat the realiest latex example you've ever seen.

About

Just an example of a CV-template how it can be used.

Open in ShareLaTeX



Comment

Comments Community

♥ Recommend

Sort by Best ▾

Start the discussion...

Be the first to comment.

Take some time and download the template.

This link also works:

<http://tinyurl.com/ddoslatex>



Things to notice:

- `\newcommand`
- `\minipage`



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Defining your own commands

A way of defining new commands

```
\newcommand{\command}{something}
```

When calling `\command`, we would get:

`something`

With arguments

```
\newcommand{\command}[1]{something #1}
```

When calling `\command[seal]`, we would get:

`something seal`



Commands calling other commands

A command calling another command

```
\newcommand{\fstcmd}[1] [] {cmd1 #1 \sndcmd[#1]}
\newcommand{\sndcmd}[1] [] {cmd2 #1}
```

When calling `\fstcmd[seal]`, we would get:

```
cmd1 seal cmd2 seal
```



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A page in a page

Acts like boxes.

```
\begin{minipage}[pos][height][contentpos]{width}
```



Minipage

Split pages?

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Minipage - Continued

$$\backslash\begin{\minipage}[pos][height][contentpos]{width}$$

more reading:

http://en.wikibooks.org/wiki/LaTeX/Boxes#minipage_and_parbox

<http://www.sascha-frank.com/latex-minipage.html>



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Templates › DDOS_GRUNDMALL-2015-03-07



DDOS
Dokumentation programutveckling
Protokoll - Medlemsmöte
Sidan 1 av 3
Mötesnr. 1 - 2015/2016

Protokoll Medlemsmöte

Tid: 17:00
 Platå: A3112
 Närvarande:
 Namn E-mail
 Johan BUXXXXX n/a
 Johan BUXXXXX n/a
 Johan BUXXXXX n/a
 Christoffer BUXXXXX n/a
 Niklas BUXXXXX n/a
 Martin BUXXXXX n/a
 Robin BUXXXXX n/a
 Rasmus BUXXXXX n/a

§1 Mötesformalia

§1.1 Mötes öppnande:

Johan BUXXXXX förklarar mötet öppnat 17:07.

§1.2 Mötes behöriga utlysande

Möte beslutat
att: Möte är behörigt.

§1.3 Godkännande av dagordning

Möte beslutat
att: Godkänna dagordningen.

§1.4 Val av mötesordförande

Möte beslutat
att: väljer Johan BUXXXXX som mötesordförande.

§1.5 Val av mötessekreterare

Möte beslutat
att: väljer Johan BUXXXXX som mötessekreterare.

About

Template for a protocol for formal-meetings.

(Note: comments written in swedish)

<https://github.com/burstrom/DDOS>

Open in ShareLaTeX



Comment

0 Comments

ShareLaTeX Templates

Johan Luxx Burst...

♥ Recommend

🔗 Share

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Start the discussion...

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Can be found in the facebook event.

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Take some time and download the template also.

This link also works:

<http://tinyurl.com/ddoslatex>



L^AT_EX Meeting-protocol

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Things to notice:

- `\newcommand`
- `\minipage`



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Good packages to lookup.

The following packages are great!

`fancyhdr,`
`pdfpages,`
`calc`

Fancyhdr

Gives header, margin notes, and much more.

<http://texdoc.net/texmf-dist/doc/latex/fancyhdr/fancyhdr.pdf>

pdfpages

lets you include pdf-files, very useful for attachments!

<http://texdoc.net/texmf-dist/doc/latex/pdfpages/pdfpages.pdf>



Packages continued..

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calc

Adds expressions to perform arithmetic on arguments. Also important to use if you want to use counters!

<http://texdoc.net/texmf-dist/doc/latex/pdfpages/pdfpages.pdf>



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Counters can be useful for manually fixing values.

To create a counter

```
\newcounter{cnter} % First initiate the counter
\setcounter{cnter}{0} % default 0, if it's not set
                    manually
```

To use our counter

```
\the cnter % Returns the value of the counter
\stepcounter{cnter} % increases the value
```



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tikz package

<http://www.texample.net/tikz/examples/tag/graphs/>

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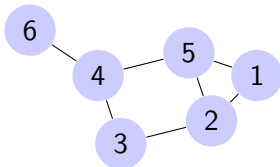
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Very useful package for
graphics and such.
But this is not something
I will go into detail in.



More trees with qtree

<http://www.ling.upenn.edu/advice/latex/qtree/qtreeenotes.pdf>

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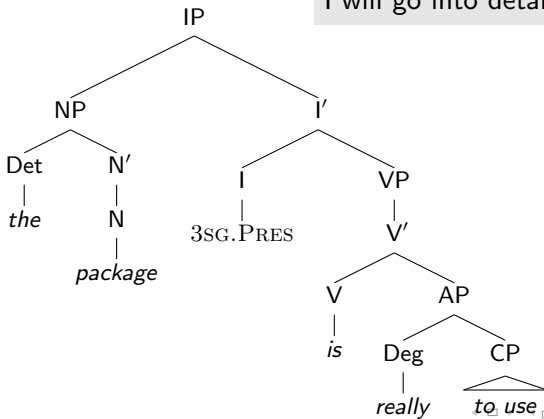




Image placement - Place images anywhere?

<http://staff.www.ltu.se/~johanc/teaching.htm>

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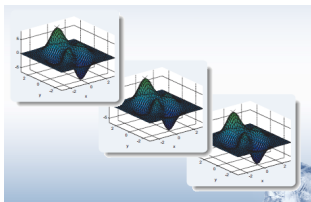
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```
\putimageblock{.55}{.95}{.25}{peaks.pdf}
\putimageblock{.35}{.80}{.25}{peaks.pdf}
\putimageblock{.15}{.65}{.25}{peaks.pdf}
```



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Try yourself!
 \LaTeX is amazing

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Follow our github page, all files can be downloaded from there.

<https://github.com/LTUDDOS/DDOS>



Sources I



sharelatex.com

Online L^AT_EXeditor.

<https://www.sharelatex.com> – 2015.



Beamer package

the theme used is called "Berkeley" and with colortheme
"wolverine"

http://deic.uab.es/~iblanes/beamer_gallery/index_by_theme.html
– 2015.



Johan Carlsons LTU template.

<http://staff.www.ltu.se/~johanc/teaching.htm>

http://staff.www.ltu.se/~johanc/LTU_Beamer_2012-06-20.zip
– 2015.