

L^AT_EX Workshop

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Upplägg

17.15: Genomgång

17.45: Övning

19.00: Middag

20.00: Avslutning

Början av ett L^AT_EXdokument

```
\documentclass[10pt, a4paper]{article}
```

```
\usepackage[utf8]{inputenc}
```

```
\usepackage[]{} 
```

```
\title{Titel}
```

```
\author{Namn}
```

```
\date{\today}
```

```
\begin{document}
```

```
\maketitle
```

```
\tableofcontents
```

```
[...]
```

```
\end{document}
```

Struktur

```
\section{Namn}  
\subsection{Namn}  
\subsubsection{Namn}
```

```
\clearpage  
\hspace{xpt}  
\vspace{xem}
```

```
\textbf{Text}  
\textit{Text}  
\noindent
```

```
\\
```

```
%
```

```
\%
```

```
~ "=
```

Ekvationer

Ekvation `$1+1=2$` mitt i text.

Ekvation `$$1+1=2$$` bryter text.

Numrerad ekvation

```
\begin{equation}
  1+1=2
  \label{eq:1}
  %\nonumber
\end{equation}
```

som bryter rad.

Ekvation $1 + 1 = 2$ mitt i text.

Ekvation

$$1 + 1 = 2$$

bryter text.

Numrerad ekvation

$$1 + 1 = 2 \quad (1)$$

som bryter rad.

`\delta`

`\Delta`

`\frac{a}{b}`

`\sqrt{x}`

`x^2`

`x_{12}`

`\int_0^{\infty} x \, dx`

`\left(\frac{a}{b} + 3\right)`

`\vec{x}`

δ

Δ

$\frac{a}{b}$

\sqrt{x}

x^2

x_{12}

$\int_0^{\infty} x \, dx$

$\left(\frac{a}{b} + 3\right)$

\vec{x}

Referenser

```
\begin{equation}
  1+1=2
  \label{eq:2}
\end{equation}
Ekvation (\ref{eq:2}) referens.
```

```
Text.\footnote{Fotnotstext.}
```

```
Citat\cite{refNamn}.
```

```
\usepackage{bibtex}
\bibliographystyle{unsrt}
\bibliography{references}
```

$$1 + 1 = 2 \quad (2)$$

Ekvation (2) referens.

Text.^a

Citat[?].

^aFotnotstext.

Referenslista

```
@book{refNamn ,  
  author = "First A. Author",  
  title = "Titel {ABC}",  
  year = "2015",  
  publisher = "LTH"  
}
```


Figurer

```
\usepackage{graphicx}  
\usepackage{float}  
\begin{figure}[H]  
  \centering  
  \includegraphics[width=\linewidth]  
  {hundring.jpg}  
  \caption{Figurtext.}  
  \label{hundring}  
\end{figure}
```



Figure: Figurtext.

Tabeller

```
\begin{table}
  \centering
  \caption{Tabellnamn.}
  \begin{tabular}{l | c c}
    & \textbf{A} & \textbf{B} \\ \hline
    \textbf{X} & 1 & 2 \\
    \textbf{Y} & 3 & 4
  \end{tabular}
  \label{tab:1}
\end{table}
```

Table: Tabellnamn.

	A	B
X	1	2
Y	3	4

```
\begin{itemize}
  \item Prick 1
  \item Prick 2
\end{itemize}
```

```
\begin{enumerate}
  \item Siffra 1
  \item Siffra 2
\end{enumerate}
```

```
\begin{description}
  \item[Beskrivning 1] Text 1
  \item[Beskrivning 2] Text 2
\end{description}
```

- ▶ Prick 1
- ▶ Prick 2

1. Siffra 1
2. Siffra 2

Beskrivning 1 Text 1

Beskrivning 2 Text 2

Andra användbara saker

```
\input{fil.tex}
\renewcommand{\figurename}{Fig.}

\begin{minipage}{0.45\linewidth}
\end{minipage}

\usepackage{amsmath, amssymb}
\usepackage[version=3]{mhchem}
\usepackage{mcode}
\usepackage{multicol}
\usepackage[swedish]{babel}
\usepackage[margin=10pt]{geometry}

\documentclass{beamer}
```

Hur börjar jag?

Sharelatex: <https://www.sharelatex.com/>

TeXmaker: <http://www.xm1math.net/texmaker/>

MiKTeX: <http://miktex.org/>

MacTeX: <https://tug.org/mactex/>

Övning

- ▶ Egna projekt
- ▶ CV
- ▶ Presentation

Hjälpmedel:

Google: <https://www.google.se/>

Hjälpmail: latex@fsektionen.se

DDG: <http://www.ddg.lth.se/perf/handledning/>

Detexify: <http://detexify.kirelabs.org/classify.html>

Tables Generator: <http://www.tablesgenerator.com/>

Exempelkod: <https://fsektionen.se/sida/latex>