

L^AT_EX WORKSHOP

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GETTING STARTED

1. L^AT_EX distribution
 - ▶ Windows
 - ▶ Max
 - ▶ Linux
2. L^AT_EX editor. My favorite is TexStudio.
3. Open a sample L^AT_EX document in your editor, and compile it. You can find sample documents [on my website](#).

BASIC STRUCTURE OF LATEX DOCUMENTS

1. Declare type of document

```
\documentclass[english,10pt,c]{article}
```

2. List packages to use

```
\usepackage{tipa}
```

3. Define macros and commands

```
\newcommand{\vs}{\vspace{11pt}}
```

4. Begin document

```
\begin{document}
```

5. Write things

6. End document

```
\end{document}
```

MISTAKES TO LOOK OUT FOR

- Commands are introduced with backslash, then add specifics in {curly brackets}. Optional options are in [square brackets].
- Watch out for special symbols such as \$, %, {}. You have to introduce them with backslash.

```
\$, \%, \{\}
```

- Some commands only work in mathmode (.e.g \rightarrow). To enter mathmode, put command between $\$$ dollarsigns $\$$.

```
 $\$ \rightarrow \$$ 
```

- You can comment out lines with %

BASIC OPERATIONS

- Sections

```
\section{Section}
```

```
\section*{Section without numbering}
```

```
\subsection{Subsection}
```

```
\subsubsection{Subsubsection}
```

- **bold**, *italics*, underlined, emphasis

```
\textbf{bold}, \textit{italics}, \underline{underlined}, \emph{emphasis}
```

BASIC OPERATIONS

1. List things

```
\begin{itemize}
\item Items with bullets
\end{itemize}
```

2. Enumerate things

```
\begin{enumerate}
\item Enumerated items
\end{enumerate}
```

3. Linguistic examples with glosses

```
\begin{exe}
\ex[] {\gll Senki nem akar olvasni. \\
      Nobody NEG wants read.INF \\
      \trans 'Nobody wants to read.')}
\end{exe}
```

BASIC OPERATIONS

```
\begin{tabular}{l | c | r}  
Here & is & a \\ \hline  
table & for & you! \\ \end{tabular}
```

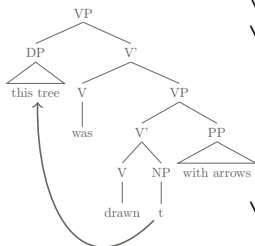
Here	is	a
table	for	you!

LINGUISTIC OPERATIONS

- [aɪ pi eɪ t^h.ɪəns'k^h.ɪpʃn̩z]

```
\textipa{[AI pi eɪ ""t\super h\*r\ae ns"k\super h
\*rɪpʃs{n}z]}
```

-



```
\begin{tikzpicture} [scale = 0.5]
\Tree [.VP [.DP \edge[roof];\node(2){
this tree}; ] [.V' [.V was ] [.VP
[.V' [.V drawn ] [.NP \node(1){t
};]] [.PP \edge[roof];{with arrows
}]]]]
```

```
\draw [semithick, ->] (1) .. controls
+(south west:3) and +(south:3) ..
(2);
\end{tikzpicture}
```

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PRESENTATIONS AND POSTERS

- Posters are just one slide in a presentation
- Declare documentclass with beamer

```
\documentclass[english,10pt,c]{beamer}
```

- Preambles can be the same (but some packages might not be compatible with beamer!)
- Set the style and the colors (can find a combination of all preset ones [here](#))

```
\usetheme{Warsaw}  
\usecolortheme{beaver}
```

- Set title

```
\title[] {\LaTeX Workshop}  
\subtitle{}  
\author {Mai Ha Vu}  
\institute{University of Delaware}  
\date{February 10, 2016}
```

A TYPICAL FRAME

```
\begin{frame}
\frametitle{Some Title for your Frame}

\begin{itemize}
\item Your
\item Bullet
\item Points
\end{itemize}

\includegraphics[scale=0.3]{placeholder}

\end{frame}
```

SOME TITLE FOR YOUR FRAME

- Your
- Bullet
- Points



SOME TITLE

Column 1

Column 2

Column 3

COLUMNS IN THE FRAME

```
\begin{frame}
\frametitle{Some Title}

\begin{columns}[t]
\begin{column}{0.3\textwidth}
    Column 1
\end{column}

\begin{column}{0.3\textwidth}
    Column 2
\end{column}

\begin{column}{0.3\textwidth}
    Column 3
\end{column}
\end{columns}

\end{frame}
```

POSTERS

```
\documentclass[final]{beamer}

\usepackage[orientation=portrait, size=a0, scale=1.4]{
  beamerposter} % Use the beamerposter package for
  laying out the poster

\usetheme{confposter} % Use the confposter theme
  supplied with this template
```

- Put beamerthemeconfposter.sty in the same folder as your poster. I haven't figured out yet how to make my L^AT_EX editor know where to pull files from when needed.

SETTING UP POSTER SIZE

```
\newlength{\sepwid}  
\newlength{\onecolwid}  
\newlength{\twocolwid}  
\newlength{\threecolwid}  
\setlength{\paperwidth}{48in} % A0 width: 46.8in  
\setlength{\paperheight}{36in} % A0 height: 33.1in  
\setlength{\sepwid}{0.024\paperwidth} % Separation  
    width (white space) between columns  
\setlength{\onecolwid}{0.22\paperwidth} % Width of one  
    column  
\setlength{\twocolwid}{0.464\paperwidth} % Width of  
    two columns  
\setlength{\threecolwid}{0.708\paperwidth} % Width of  
    three columns  
\setlength{\topmargin}{-0.5in} % Reduce the top margin  
    size
```

COLUMNS IN POSTER

```
\begin{columns}[t] % The whole poster consists of
  three major columns, the second of which is split
  into two columns twice - the [t] option aligns
  each column's content to the top
\begin{column}{\sepwid}\end{column} % Empty spacer
  column
\begin{alertblock}{Objectives}
\end{alertblock}
\begin{block}{Introduction}
\end{block}
\begin{figure}
\includegraphics[width=0.8\linewidth]{placeholder}
\caption{Figure caption}
\end{figure}
\begin{column}{\oncolwid} % The first column
\end{column}
\end{columns}
```

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BEAMER: PRESENTATIONS AND POSTERS

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BIBLIOGRAPHY FILE

To include automatic citations, you will need a .bib file that lists all the references you will use (and even more!).

```
@article{haegeman91,  
  title={Negative heads and the Neg Criterion},  
  author={Haegeman, Liliane and Zanuttini, Raffaella},  
  journal={The linguistic review},  
  volume={8},  
  number={2-4},  
  pages={233--252},  
  year={1991}  
}  
  
@book{haegeman95,  
  title={The syntax of negation},  
  author={Haegeman, Liliane},  
  number={75},  
  year={1995},  
  publisher={Cambridge University Press}  
}
```

CITATIONS IN THE DOCUMENT

- Put the .bib file in the same folder as the .tex file
- Use a bibliography package in the preamble

```
\usepackage{natbib}
```

- Cite papers in text

```
\cite{haegeman91}
```

```
\citep{haegeman91}
```

- List references in the end

```
\bibliographystyle{chicago}
```

```
\bibliography{qp}
```

- You might have to compile it several times to work

Questions?