

L^AT_EX for Linguists

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Research Tool Workshop Series

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- First, how do you pronounce L^AT_EX?
 - Usually [leɪtɛk] or [lɑːtɛk]

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Resources

- First, how do you pronounce L^AT_EX?
 - Usually [leɪtɛk] or [lɑ:tɛk]
- It's a typesetting system, not a word processor

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Resources

- First, how do you pronounce L^AT_EX?
 - Usually [leɪtɛk] or [lɑːtɛk]
- It's a typesetting system, not a word processor
- L^AT_EX documents are written with markup code, which is then interpreted and compiled by the T_EX system

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Resources

- First, how do you pronounce L^AT_EX?
 - Usually [leɪtɛk] or [lɑːtɛk]
- It's a typesetting system, not a word processor
- L^AT_EX documents are written with markup code, which is then interpreted and compiled by the T_EX system
- It has a learning curve, but there are a number of advantages, which you will hopefully see. . .

The structure of a \LaTeX document

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- Every document must contain the following lines:

```
\documentclass{...}
```

```
...
```

```
\begin{document}
```

```
...
```

```
\end{document}
```

Let's start with a basic document

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```
\documentclass{article}
```

```
\begin{document}
```

```
Hello world!
```

```
\end{document}
```


\documentclass{}

- The document classes you are most likely to use are:
 - `article` (for articles)
 - `beamer` (for slideshows like this)

`\documentclass{}`

- The document classes you are most likely to use are:
 - `article` (for articles)
 - `beamer` (for slideshows like this)
- The `\documentclass` command can have options, which are specified as such:

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

The preamble

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Resources

- The preamble comes between ‘documentclass{ }’ and ‘begin{document}’

The preamble

- The preamble comes between ‘documentclass{ }’ and ‘begin{document}’
- Here, you list the packages you will be using, e.g.:

```
\documentclass{article}
```

```
\usepackage{covington}
```

```
\usepackage{qtree}
```

```
\usepackage{tipa}
```

```
\begin{document}
```

```
...
```

The preamble

- The preamble comes between ‘documentclass{ }’ and ‘begin{document}’
- Here, you list the packages you will be using, e.g.:

```
\documentclass{article}
```

```
\usepackage{covington}
```

```
\usepackage{qtree}
```

```
\usepackage{tipa}
```

```
\begin{document}
```

```
...
```

- You can also define new commands

Titles

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Resources

- A set of commands are available for creating titles and abstracts:

```
\title{...}
```

```
\author{...}
```

```
\date{...}
```

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Resources

- A set of commands are available for creating titles and abstracts:

```
\title{...}
```

```
\author{...}
```

```
\date{...}
```

- These are inserted into the document with the `\maketitle` command

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- Let's add a title to our document:

```
\begin{document}
\title{A sample \LaTeX document}
\author{Your name here}
\date{\today}
\maketitle
Hello world!
```


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Resources

- And an abstract:

```
\maketitle
```

```
\begin{abstract}
```

```
Lorem ipsum dolor sit amet...
```

```
\end{abstract}
```

```
Hello world!
```

Some basic text formatting

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■ `\section{}` and `\subsection{}`

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- `\section{}` and `\subsection{}`
- `\textit{}`, `\textbf{}`, and `\underline{}`

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Resources

- `\section{}` and `\subsection{}`
- `\textit{}`, `\textbf{}`, and `\underline{}`
- subscript ($T_{\text{def}}P$) and superscript ($a^2 + b^2 = c^2$):

`T$_\text{def}$P`

`a2 + b2 = c2`

Changing the font

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- The \LaTeX font is called Computer Modern

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Resources

- The L^AT_EX font is called Computer Modern
- Typewriter font: `\texttt{}`
 - This will set the text in the brackets to monospace font

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Resources

- The L^AT_EX font is called Computer Modern
- Typewriter font: `\texttt{}`
 - This will set the text in the brackets to monospace font
- Times New Roman: `\usepackage{times}`
 - This will set the entire document to Times New Roman

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Resources

- The L^AT_EX font is called Computer Modern
- Typewriter font: `\texttt{}`
 - This will set the text in the brackets to monospace font
- Times New Roman: `\usepackage{times}`
 - This will set the entire document to Times New Roman
- Font size can be specified with a `\documentclass` option, e.g., `[10pt]`, `[11pt]`, `[12pt]`
 - This will set the entire document to that font size

Margins and spacing

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Resources

- The default margins are designed for readability, but you may require 1 inch margins.

- Margins can be set using the geometry package:

```
\usepackage[margin=1.0in]{geometry}
```

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Resources

- The default margins are designed for readability, but you may require 1 inch margins.

- Margins can be set using the geometry package:

```
\usepackage[margin=1.0in]{geometry}
```

- Line spacing can be set with the setspace package:

```
\usepackage{setspace}
```

```
%\singlespacing
```

```
%\onehalfspacing
```

```
%\doublespacing
```

Miscellaneous formatting issues

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Resources

- Footnotes can be added using the footnote command:
`\footnote{Lorem ipsum dolor sit amet...}`

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Resources

- Footnotes can be added using the footnote command:
`\footnote{Lorem ipsum dolor sit amet...}`
- Quirks of LaTeX:
 - `# $ % ^ & _ { } ~ \` are reserved characters—you must use a backslash in order to type them, e.g. `\&`
 - LaTeX differentiates left and right quotes: `'` and `"` are right quotes, while left quotes are typed using the `'` key (tilde key)

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- Footnotes can be added using the footnote command:
`\footnote{Lorem ipsum dolor sit amet...}`
- Quirks of LaTeX:
 - `# $ % ^ & _ { } ~ \` are reserved characters—you must use a backslash in order to type them, e.g. `\&`
 - LaTeX differentiates left and right quotes: `'` and `"` are right quotes, while left quotes are typed using the `'` key (tilde key)
- Accented characters are typed with special codes, e.g.,
`\=o = ō`, `\o = ø`, `\'e = é`

Miscellaneous formatting issues

- Footnotes can be added using the footnote command:

```
\footnote{Lorem ipsum dolor sit amet...}
```

- Quirks of L^AT_EX:

- # \$ % ^ & _ { } ~ \ are reserved characters—you must use a backslash in order to type them, e.g. \&

- LaTeX differentiates left and right quotes: ' and " are right quotes, while left quotes are typed using the ' key (tilde key)

- Accented characters are typed with special codes, e.g.,
`\=o = ō`, `\o = ø`, `\'e = é`

- Comprehensive list of symbols:

<http://mirrors.ibiblio.org/CTAN/info/symbols/comprehensive/symbols-a4.pdf>

Lists and bullets

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Resources

- Numbered lists are introduced and ended with the `enumerate` environment:

```
\begin{enumerate}  
  \item{...}  
\end{enumerate}
```

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Resources

- Numbered lists are introduced and ended with the `enumerate` environment:

```
\begin{enumerate}  
  \item{...}  
\end{enumerate}
```

- `\item{}` encloses each item

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Resources

- Numbered lists are introduced and ended with the `enumerate` environment:

```
\begin{enumerate}  
  \item{...}  
\end{enumerate}
```
- `\item{}` encloses each item
- Bulleted lists are the same, except they use the `itemize` environment.

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Resources

- Numbered lists are introduced and ended with the `enumerate` environment:

```
\begin{enumerate}  
  \item{...}  
\end{enumerate}
```

- `\item{}` encloses each item
- Bulleted lists are the same, except they use the `itemize` environment.
- Numbered and bulleted lists can be embedded within one another.

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Resources

- Which numbering system is used can be chosen with the `enumerate` package:

```
\usepackage{enumerate}  
...  
\begin{enumerate}[I.]  
  \item{...}  
\end{enumerate}
```

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Resources

- Which numbering system is used can be chosen with the `enumerate` package:

```
\usepackage{enumerate}
...
\begin{enumerate}[I.]
  \item{...}
\end{enumerate}
```

- Or, items can be given individual bullet symbols:

```
\usepackage{enumerate}
...
\begin{itemize}
  \item[-]{...}
  \item[+]{...}
\end{itemize}
```

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Resources

- `\setcounter{enumi}{4}` can be used to set the counter for numbered lists:

```
\usepackage{enumerate}
```

```
...
```

```
\begin{enumerate}
```

```
    \setcounter{enumi}{4}
```

```
    \item{The fifth item}
```

```
\end{enumerate}
```

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Resources

- `\setcounter{enumi}{4}` can be used to set the counter for numbered lists:

```
\usepackage{enumerate}
```

```
...
```

```
\begin{enumerate}
```

```
    \setcounter{enumi}{4}
```

```
    \item{The fifth item}
```

```
\end{enumerate}
```

- There are separate counters for each level of embedding:
`enumi`, `enumii`, `enumiii`, `enumiv`

Lists and bullets

- `\setcounter{enumi}{4}` can be used to set the counter for numbered lists:

```
\usepackage{enumerate}
```

```
...
```

```
\begin{enumerate}
```

```
    \setcounter{enumi}{4}
```

```
    \item{The fifth item}
```

```
\end{enumerate}
```

- There are separate counters for each level of embedding:
`enumi`, `enumii`, `enumiii`, `enumiv`
- Additional counters operate for sections, tables, pages, etc.

Graphics

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Resources

- The `graphicx` package is used for inserting pictures

```
\usepackage{graphicx}
```

```
...
```

```
\begin{figure}[h]
```

```
\includegraphics{LabovGraph.pdf}
```

```
\end{figure}
```


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Resources

- The `graphicx` package is used for inserting pictures

```
\usepackage{graphicx}
```

```
...
```

```
\begin{figure}[h]
```

```
\includegraphics{LabovGraph.pdf}
```

```
\end{figure}
```

- Graphic width can be controlled with `[width=...]` option.
 - It can be an absolute value (4in) or a relative value (`.95\textwidth`)

Graphics options

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Resources

- Some more graphics options:

```
\usepackage{graphicx}
```

```
...
```

```
\begin{figure}[H]
```

```
    \centering
```

```
    \includegraphics[width=...]{VowelSpace.png}
```

```
    \caption{...}
```

```
    \label{...}
```

```
\end{figure}
```

Graphics options

- Some more graphics options:

```
\usepackage{graphicx}
...
\begin{figure}[H]
    \centering
    \includegraphics[width=...]{VowelSpace.png}
    \caption{...}
    \label{...}
\end{figure}
```

- H requires the package float and inserts a graphic in that exact spot—h will only attempt to put a graphic in that spot.

Cross references

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Resources

- `\label{...}` is used to label objects for cross-reference.

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Resources

- `\label{...}` is used to label objects for cross-reference.
- These objects can then be referred to with the `\ref{...}` command.

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Resources

- `\label{...}` is used to label objects for cross-reference.
- These objects can then be referred to with the `\ref{...}` command.
- You can label graphics, tables, sections, pages, etc.

Tables

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Resources

- Tables are enclosed in the `tabular` environment.

```
\begin{tabular}{c|c|c}  
1 & 2 & 3\\  
\end{tabular}
```

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Resources

- Tables are enclosed in the `tabular` environment.

```
\begin{tabular}{c|c|c}
```

```
1 & 2 & 3\\
```

```
\end{tabular}
```

- `&` separates cells and `\\` ends the row.

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Resources

- Tables are enclosed in the `tabular` environment.

```
\begin{tabular}{c|c|c}
```

```
1 & 2 & 3\\
```

```
\end{tabular}
```

- `&` separates cells and `\\` ends the row.
- `{c|l|r}` controls the alignment of the text in each column.

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Resources

- Tables are enclosed in the `tabular` environment.

```
\begin{tabular}{c|c|c}
```

```
1 & 2 & 3\\
```

```
\end{tabular}
```

- `&` separates cells and `\\` ends the row.
- `{c|l|r}` controls the alignment of the text in each column.
- Horizontal dividers are marked with `|` and horizontal dividers can be created with `line` between rows.

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- Tables can be embedded in the `table` environment.

```
\begin{table}  
  \caption{...}  
  \label{table:...}  
  \begin{tabular}{c|c|c}  
    ...  
  \end{tabular}  
\begin{table}
```

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- Tables can be embedded in the `table` environment.

```
\begin{table}
  \caption{...}
  \label{table:...}
  \begin{tabular}{c|c|c}
    ...
  \end{tabular}
\begin{table}
```

- This allows you to add captions/titles and references.

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- It's pretty straightforward: IPA in LaTeX

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- It's pretty straightforward: IPA in LaTeX
- It looks like this:

```
\textipa{[D@ "k\super h\ae p\textcorner t\s{n}  
~\ae nd\textcorner D@ "\t{dZ}\~En\*r@  
l wIl "p\r*{\*r}Ablij: goU:]}
```

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```
\textipa{[D@ "k\super h\ae p\textcorner t\s{n}  
\~\ae nd\textcorner D@ "\t{dZ}\~En\*r@  
l wI l "p\r*{\*r}Ablij: goU:]}
```

- Which produces: [ðə 'k^hæp^ɪtɪ ænd'ðə 'dʒɛnɪət wɪt
'pɹɒblij: goʊ:]

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- Try typesetting: [hau du ai meik ai pi ei simbəlz ɪn leɪtək]
- Or: [maɪ: 'hʊzbənʃʊd'æv bɒt'p^hət^heɪ:rouz]

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- Covington introduces the `example` environment.
- This allows you to embed nearly anything in an environment with a typical linguistics citation number: (x)
- It looks like:

```
\begin{example}  
  \label{...}  
  \begin{table}  
    ...  
  \end{table}  
\end{example}
```

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Resources

- Glosses are introduced using the `\gll` command.

- It looks like:

```
\begin{example}  
    \gll Der Mann, der Florian kennt.  
    The.\textsc{m.nom} man, who.\textsc{m.nom}...  
    \glt 'The man who/that knows Florian.'  
    \glend  
\end{example}
```

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- This code produces:

(1) a. *Der Mann, der Florian kennt.*
The.M.NOM man, who.M.NOM Florian knows.
'The man who/that knows Florian.'

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Resources

- This code produces:

(1) a. *Der Mann, der Florian kennt.*
The.M.NOM man, who.M.NOM Florian knows.
'The man who/that knows Florian.'

- Lists can be embedded within the example environment.

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- This code produces:

(1) a. *Der Mann, der Florian kennt.*
The.M.NOM man, who.M.NOM Florian knows.
'The man who/that knows Florian.'

- Lists can be embedded within the example environment.
- Examples can be labeled and cross-referenced.

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- This code produces:

(1) a. *Der Mann, der Florian kennt.*
The.M.NOM man, who.M.NOM Florian knows.
'The man who/that knows Florian.'

- Lists can be embedded within the example environment.
- Examples can be labeled and cross-referenced.
- Use brackets to group multiple words, or empty brackets to skip words.

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- qtree lets you make...trees!

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- qtree lets you make...trees!
- The code looks like this:

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Resources

- qtree lets you make...trees!
- The code looks like this:
- It's fairly straightforward once you get the hang of it.

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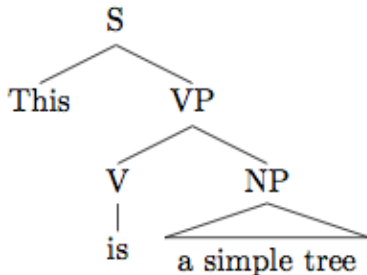
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- The code on the last slide produces:



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- <http://en.wikibooks.org/wiki/LaTeX/>
- Twitter: @TeXtip
- LaTeX4Ling: <http://www.essex.ac.uk/linguistics/external/clmt/latex4ling/>
- Google (duh)