

## Short title

Adam  
Goodkind

Overview of  
 $\text{\LaTeX}$

Why  $\text{\LaTeX}$ ?

Why Not  $\text{\LaTeX}$ ?

A Few  $\text{\LaTeX}$   
Features

Bibliography/  
Reference  
Management

BibTeX and  
Biber

Mendeley,  
Zotero and Biber

Presentations  
and Posters

Beamer/Tikz

$\text{\LaTeX}$  for  
Linguists

Trees

Symbols

Glosses

Extensive  
Online  
Support

# The Joys of $\text{\LaTeX}$

Adam Goodkind

Northwestern University

*[a.goodkind@u.northwestern.edu](mailto:a.goodkind@u.northwestern.edu)*

January 11, 2017

# Our Path Today

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Bibliography/  
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Management

BibTeX and  
Biber  
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Presentations  
and Posters  
Beamer/Tikz

$\text{\LaTeX}$  for  
Linguists

Trees  
Symbols  
Glosses

Extensive  
Online  
Support

- 1 Overview of  $\text{\LaTeX}$ 
  - Why  $\text{\LaTeX}$ ?
  - Why Not  $\text{\LaTeX}$ ?
  - A Few  $\text{\LaTeX}$  Features
- 2 Bibliography/ Reference Management
  - BibTeX and Biber
  - Mendeley, Zotero and Biber
- 3 Presentations and Posters
  - Beamer/Tikz
- 4  $\text{\LaTeX}$  for Linguists
  - Trees
  - Symbols
  - Glosses
- 5 Extensive Online Support

# Why L<sup>A</sup>T<sub>E</sub>X

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Overview of  
L<sup>A</sup>T<sub>E</sub>X

Why L<sup>A</sup>T<sub>E</sub>X?

Why Not L<sup>A</sup>T<sub>E</sub>X?

A Few L<sup>A</sup>T<sub>E</sub>X  
Features

Bibliography/  
Reference  
Management

BibTeX and  
Biber

Mendeley,  
Zotero and Biber

Presentations  
and Posters

Beamer/Tikz

L<sup>A</sup>T<sub>E</sub>X for  
Linguists

Trees

Symbols

Glosses

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## Portability of Code

- Overleaf.com has made real-time / collaboration simple

## Logistics

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Why L<sup>A</sup>T<sub>E</sub>X?

Why Not L<sup>A</sup>T<sub>E</sub>X?

A Few L<sup>A</sup>T<sub>E</sub>X  
Features

Bibliography/  
Reference  
Management

BibTeX and  
Biber  
Mendeley,  
Zotero and Biber

Presentations  
and Posters  
Beamer/Tikz

L<sup>A</sup>T<sub>E</sub>X for  
Linguists

Trees  
Symbols  
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Why L<sup>A</sup>T<sub>E</sub>X?

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A Few L<sup>A</sup>T<sub>E</sub>X  
Features

Bibliography/  
Reference  
Management

BibTeX and  
Biber  
Mendeley,  
Zotero and Biber

Presentations  
and Posters  
Beamer/Tikz

L<sup>A</sup>T<sub>E</sub>X for  
Linguists

Trees  
Symbols  
Glosses

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L<sup>A</sup>T<sub>E</sub>X  
Why L<sup>A</sup>T<sub>E</sub>X?  
Why Not L<sup>A</sup>T<sub>E</sub>X?  
A Few L<sup>A</sup>T<sub>E</sub>X  
Features

Bibliography/  
Reference  
Management  
BibTeX and  
Biber  
Mendeley,  
Zotero and Biber

Presentations  
and Posters  
Beamer/Tikz

L<sup>A</sup>T<sub>E</sub>X for  
Linguists  
Trees  
Symbols  
Glosses

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L<sup>A</sup>T<sub>E</sub>X  
Why L<sup>A</sup>T<sub>E</sub>X?  
Why Not L<sup>A</sup>T<sub>E</sub>X?  
A Few L<sup>A</sup>T<sub>E</sub>X  
Features

Bibliography/  
Reference  
Management

BibTeX and  
Biber  
Mendeley,  
Zotero and Biber

Presentations  
and Posters  
Beamer/Tikz

L<sup>A</sup>T<sub>E</sub>X for  
Linguists

Trees  
Symbols  
Glosses

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Overview of  
L<sup>A</sup>T<sub>E</sub>X

Why L<sup>A</sup>T<sub>E</sub>X?

Why Not L<sup>A</sup>T<sub>E</sub>X?

A Few L<sup>A</sup>T<sub>E</sub>X  
Features

Bibliography/  
Reference  
Management

BibTeX and  
Biber

Mendeley,  
Zotero and Biber

Presentations  
and Posters

Beamer/Tikz

L<sup>A</sup>T<sub>E</sub>X for  
Linguists

Trees

Symbols

Glosses

Extensive  
Online  
Support

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- Content and layout are kept separate
- No need to worry about where to place figures



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L<sup>A</sup>T<sub>E</sub>X  
Why L<sup>A</sup>T<sub>E</sub>X?  
Why Not L<sup>A</sup>T<sub>E</sub>X?  
A Few L<sup>A</sup>T<sub>E</sub>X  
Features

Bibliography/  
Reference  
Management  
BibTeX and  
Biber  
Mendeley,  
Zotero and Biber

Presentations  
and Posters  
Beamer/Tikz

L<sup>A</sup>T<sub>E</sub>X for  
Linguists  
Trees  
Symbols  
Glosses

Extensive  
Online  
Support

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- No need to worry about where to place figures
- Dynamic section, figure, item numbering etc.

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Short title

Adam  
Goodkind

Overview of  
L<sup>A</sup>T<sub>E</sub>X

Why L<sup>A</sup>T<sub>E</sub>X?

Why Not L<sup>A</sup>T<sub>E</sub>X?

A Few L<sup>A</sup>T<sub>E</sub>X  
Features

Bibliography/  
Reference  
Management

BibTeX and  
Biber  
Mendeley,  
Zotero and Biber

Presentations  
and Posters

Beamer/Tikz

L<sup>A</sup>T<sub>E</sub>X for  
Linguists

Trees  
Symbols  
Glosses

Extensive  
Online  
Support

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- No need to worry about where to place figures
- Dynamic section, figure, item numbering etc.
- Citations are automatically added to bibliographies

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Learning Curve

Overview of  
 $\text{\LaTeX}$

Why  $\text{\LaTeX}$ ?

**Why Not  $\text{\LaTeX}$ ?**

A Few  $\text{\LaTeX}$   
Features

Tables

Bibliography/  
Reference  
Management

BibTeX and  
Biber

Mendeley,  
Zotero and Biber

Aesthetics

Presentations  
and Posters  
Beamer/Tikz

$\text{\LaTeX}$  for  
Linguists

Trees  
Symbols  
Glosses

Extensive  
Online  
Support

# Why Not $\text{\LaTeX}$

Short title

Adam  
Goodkind

Overview of  
 $\text{\LaTeX}$

Why  $\text{\LaTeX}$ ?

**Why Not  $\text{\LaTeX}$ ?**

A Few  $\text{\LaTeX}$   
Features

Bibliography/  
Reference  
Management

BibTeX and  
Biber

Mendeley,  
Zotero and Biber

Presentations  
and Posters

Beamer/Tikz

$\text{\LaTeX}$  for  
Linguists

Trees

Symbols

Glosses

Extensive  
Online  
Support

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- $\text{\LaTeX}$  is a Turing-complete programming language

## Tables

## Aesthetics

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Short title

Adam  
Goodkind

Overview of  
 $\text{\LaTeX}$   
Why  $\text{\LaTeX}$ ?  
Why Not  $\text{\LaTeX}$ ?  
A Few  $\text{\LaTeX}$   
Features

Bibliography/  
Reference  
Management  
BibTeX and  
Biber  
Mendeley,  
Zotero and Biber

Presentations  
and Posters  
Beamer/Tikz

$\text{\LaTeX}$  for  
Linguists  
Trees  
Symbols  
Glosses

Extensive  
Online  
Support

## Learning Curve

- $\text{\LaTeX}$  is a Turing-complete programming language
- For very (very!) short and straightforward writing, may not be worth overhead

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Short title

Adam  
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Overview of  
L<sup>A</sup>T<sub>E</sub>X  
Why L<sup>A</sup>T<sub>E</sub>X?  
Why Not L<sup>A</sup>T<sub>E</sub>X?  
A Few L<sup>A</sup>T<sub>E</sub>X  
Features

Bibliography/  
Reference  
Management  
BibTeX and  
Biber  
Mendeley,  
Zotero and Biber

Presentations  
and Posters  
Beamer/Tikz

L<sup>A</sup>T<sub>E</sub>X for  
Linguists  
Trees  
Symbols  
Glosses

Extensive  
Online  
Support

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Adam  
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Overview of  
L<sup>A</sup>T<sub>E</sub>X  
Why L<sup>A</sup>T<sub>E</sub>X?  
Why Not L<sup>A</sup>T<sub>E</sub>X?  
A Few L<sup>A</sup>T<sub>E</sub>X  
Features

Bibliography/  
Reference  
Management  
BibTeX and  
Biber  
Mendeley,  
Zotero and Biber

Presentations  
and Posters  
Beamer/Tikz

L<sup>A</sup>T<sub>E</sub>X for  
Linguists  
Trees  
Symbols  
Glosses

Extensive  
Online  
Support

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Short title

Adam  
Goodkind

Overview of  
 $\text{\LaTeX}$   
Why  $\text{\LaTeX}$ ?  
Why Not  $\text{\LaTeX}$ ?  
A Few  $\text{\LaTeX}$   
Features

Bibliography/  
Reference  
Management  
BibTeX and  
Biber  
Mendeley,  
Zotero and Biber

Presentations  
and Posters  
Beamer/Tikz

$\text{\LaTeX}$  for  
Linguists  
Trees  
Symbols  
Glosses

Extensive  
Online  
Support

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Short title

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Overview of  
 $\text{\LaTeX}$   
Why  $\text{\LaTeX}$ ?  
Why Not  $\text{\LaTeX}$ ?  
A Few  $\text{\LaTeX}$   
Features

Bibliography/  
Reference  
Management  
BibTeX and  
Biber  
Mendeley,  
Zotero and Biber

Presentations  
and Posters  
Beamer/Tikz

$\text{\LaTeX}$  for  
Linguists  
Trees  
Symbols  
Glosses

Extensive  
Online  
Support

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- Picture placement/sizing can be tricky

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Short title

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Overview of  
 $\text{\LaTeX}$   
Why  $\text{\LaTeX}$ ?  
Why Not  $\text{\LaTeX}$ ?  
A Few  $\text{\LaTeX}$   
Features

Bibliography/  
Reference  
Management  
BibTeX and  
Biber  
Mendeley,  
Zotero and Biber

Presentations  
and Posters  
Beamer/Tikz

$\text{\LaTeX}$  for  
Linguists  
Trees  
Symbols  
Glosses

Extensive  
Online  
Support

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## Aesthetics

- Picture placement/sizing can be tricky
- $\text{\LaTeX}$  has its fair share of quirks

# A Few L<sup>A</sup>T<sub>E</sub>X Features

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L<sup>A</sup>T<sub>E</sub>X  
Why L<sup>A</sup>T<sub>E</sub>X?  
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A Few L<sup>A</sup>T<sub>E</sub>X  
Features

Bibliography/  
Reference  
Management  
BibTeX and  
Biber  
Mendeley,  
Zotero and Biber

Presentations  
and Posters  
Beamer/Tikz

L<sup>A</sup>T<sub>E</sub>X for  
Linguists  
Trees  
Symbols  
Glosses

Extensive  
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Support

- Very easy to change formats (slide template demo)
  - Columns / Format
  - Line Numbers
  - Journal Template (<https://www.overleaf.com/7657746tdydxffysqjg#/26800114/>)

# A Few L<sup>A</sup>T<sub>E</sub>X Features

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L<sup>A</sup>T<sub>E</sub>X  
Why L<sup>A</sup>T<sub>E</sub>X?  
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A Few L<sup>A</sup>T<sub>E</sub>X  
Features

Bibliography/  
Reference  
Management  
BibTeX and  
Biber  
Mendeley,  
Zotero and Biber

Presentations  
and Posters  
Beamer/Tikz

L<sup>A</sup>T<sub>E</sub>X for  
Linguists  
Trees  
Symbols  
Glosses

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- Dynamic numbering!!

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L<sup>A</sup>T<sub>E</sub>X  
Why L<sup>A</sup>T<sub>E</sub>X?  
Why Not L<sup>A</sup>T<sub>E</sub>X?  
A Few L<sup>A</sup>T<sub>E</sub>X  
Features

Bibliography/  
Reference  
Management

BibTeX and  
Biber  
Mendeley,  
Zotero and Biber

Presentations  
and Posters  
Beamer/Tikz

L<sup>A</sup>T<sub>E</sub>X for  
Linguists

Trees  
Symbols  
Glosses

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Online  
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- Dynamic numbering!!
- Equations and symbols (+Blocks +Verbatim)

## Example of Denotation Function

```
\usepackage{stmaryrd}
% or
\newcommand{\sem}[2][M!,g]{\mbox{ $[\![ \ #2 ]\! ]^{\{ \#1 \}}$ }}
\sem[M',g]{walks}
```

becomes  $\llbracket walks \rrbracket^{M',g}$

# Tables

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L<sup>A</sup>T<sub>E</sub>X  
Why L<sup>A</sup>T<sub>E</sub>X?  
Why Not L<sup>A</sup>T<sub>E</sub>X?  
A Few L<sup>A</sup>T<sub>E</sub>X  
Features

Bibliography/  
Reference  
Management  
BibTeX and  
Biber  
Mendeley,  
Zotero and Biber

Presentations  
and Posters  
Beamer/Tikz

L<sup>A</sup>T<sub>E</sub>X for  
Linguists  
Trees  
Symbols  
Glosses

Extensive  
Online  
Support

## Tables can be tricky

```
\begin{table}[]  
\caption{My caption}  
\label{my-label}  
\begin{tabular}{ll}  
Name      & Date    \\  
Adam      & 1/1/17  \\  
Bob       & 1/2/16  \\  
Charlie   & 1/3/15  
\end{tabular}  
\end{table}
```

Table: My caption

Name	Date
Adam	1/1/17
Bob	1/2/16
Charlie	1/3/15

- Lots of tables at <http://www.tablesgenerator.com/>
- Tables can be made from Python and R dataframes

# From PDF to citation

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 $\text{\LaTeX}$   
Why  $\text{\LaTeX}$ ?  
Why Not  $\text{\LaTeX}$ ?  
A Few  $\text{\LaTeX}$   
Features

Bibliography/  
Reference  
Management  
**BibTeX and  
Biber**  
Mendeley,  
Zotero and Biber

Presentations  
and Posters  
Beamer/Tikz

$\text{\LaTeX}$  for  
Linguists  
Trees  
Symbols  
Glosses

Extensive  
Online  
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Adding an article from Google Scholar is simple

- Copy the BibTeX key
- Paste the key into JabRef
- Download the PDF and rename it with the citation key
- Add the BibTeX key to the BibTeX file

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Why L<sup>A</sup>T<sub>E</sub>X?  
Why Not L<sup>A</sup>T<sub>E</sub>X?  
A Few L<sup>A</sup>T<sub>E</sub>X  
Features

Bibliography/  
Reference  
Management  
BibTeX and  
Biber  
Mendeley,  
Zotero and Biber

Presentations  
and Posters  
Beamer/Tikz

L<sup>A</sup>T<sub>E</sub>X for  
Linguists  
Trees  
Symbols  
Glosses

Extensive  
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## Easy Citations

Typing the `\cite` command within L<sup>A</sup>T<sub>E</sub>X:

This statement requires citation `\cite{p1}`.

Automatically produces

- This statement requires citation [Smith, 2012].
- And adds it to the bibliography



John Smith (2012)

Title of the publication

*Journal Name* 12(3), 45 – 678.



# Mendeley, Zotero and Biber

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Why L<sup>A</sup>T<sub>E</sub>X?

Why Not L<sup>A</sup>T<sub>E</sub>X?

A Few L<sup>A</sup>T<sub>E</sub>X  
Features

Bibliography/  
Reference  
Management

BibTeX and  
Biber

Mendeley,  
Zotero and Biber

Presentations  
and Posters

Beamer/Tikz

L<sup>A</sup>T<sub>E</sub>X for  
Linguists

Trees

Symbols

Glosses

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Online  
Support

- Mendeley, Zotero, EndNote etc. all support BibTeX
- Changing reference styles can be done with a single line
- Supposed to use biber instead now
  - Offers more stability
  - Supports more character types
  - Doesn't work with all bibliography packages, such as natbib

# Posters and Presentations

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 $\text{\LaTeX}$

Why  $\text{\LaTeX}$ ?

Why Not  $\text{\LaTeX}$ ?

A Few  $\text{\LaTeX}$   
Features

Bibliography/  
Reference  
Management

BibTeX and  
Biber

Mendeley,  
Zotero and Biber

Presentations  
and Posters

Beamer/Tikz

$\text{\LaTeX}$  for  
Linguists

Trees

Symbols

Glosses

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- Going between presentations and posters is easy
- Can use tikz and beamer packages
- A slide is a block
- Useful if including lots of technical details
- Not always useful for more straightforward presentations
- But often less headaches than Microsoft

# L<sup>A</sup>T<sub>E</sub>X For Linguists

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L<sup>A</sup>T<sub>E</sub>X

Why L<sup>A</sup>T<sub>E</sub>X?  
Why Not L<sup>A</sup>T<sub>E</sub>X?  
A Few L<sup>A</sup>T<sub>E</sub>X  
Features

Bibliography/  
Reference  
Management

BibTeX and  
Biber  
Mendeley,  
Zotero and Biber

Presentations  
and Posters  
Beamer/Tikz

L<sup>A</sup>T<sub>E</sub>X for  
Linguists

Trees  
Symbols  
Glosses

Extensive  
Online  
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## Lots of resources for linguists

```
\includegraphics[scale=0.2]{LatexForLinguists.png}
```

Google latex for linguists

About 152,000 results (0.53 seconds)

**LaTeX for Linguists**  
[www.essex.ac.uk/linguistics/external/clmt/latex4ling/](http://www.essex.ac.uk/linguistics/external/clmt/latex4ling/) ▾  
These pages provide information on how to use LaTeX for writing Linguistics papers (articles, books, etc.). In particular, they provide instructions and advice on ...  
[Tree Drawing in LaTeX](#) · [AVMs in LaTeX](#) · [Semantics](#) · [Books and articles](#)  
You've visited this page many times. Last visit: 1/7/17

**LaTeX/Linguistics - Wikibooks, open books for an open world**  
<https://en.wikibooks.org/wiki/LaTeX/Linguistics> ▾  
There are a number of LaTeX packages available for writing linguistics papers. Various packages have been created for enumerated examples, syntactic trees, ...

**TeX/LaTeX documentation - University of Pennsylvania**  
[www.ling.upenn.edu/advice/latex.html](http://www.ling.upenn.edu/advice/latex.html) ▾  
This document tries to provide some information useful to linguists using LaTeX at the University of Pennsylvania. Much of it is applicable to other circumstances ...

**Doing Linguistics in LaTeX - A fairly quick ... - Boston University**  
[ug.bu.edu/blog/lingtech/files/20080528-latex-intro.pdf](http://ug.bu.edu/blog/lingtech/files/20080528-latex-intro.pdf) ▾  
May 28, 2008 - Miscellaneous notes. Doing Linguistics in L<sup>A</sup>T<sub>E</sub>X. A fairly quick introduction. Paul Hagstrom. Linguistics Program. Dept. of Romance Studies.

**Using LaTeX in Linguistics | Linguistic Society of America**  
[www.linguisticsociety.org/content/using-latex-linguistics](http://www.linguisticsociety.org/content/using-latex-linguistics) ▾  
LaTeX is a document preparation system widely used in linguistics to create papers, handouts, presentations, and other publications. There are many ...

**LaTeX for Linguists | The Department of Linguistics & TESOL at UT ...**  
[www.uta.edu/linguistics/about/conferences/latex-linguists/](http://www.uta.edu/linguistics/about/conferences/latex-linguists/) ▾  
Installation. For a Mac: go to [www.tug.org/mactex/](http://www.tug.org/mactex/); download from the < MacTeX.mpkg.zip > link (it's a

# Easy Tree Diagrams

Short title

Adam  
Goodkind

Overview of  
L<sup>A</sup>T<sub>E</sub>X  
Why L<sup>A</sup>T<sub>E</sub>X?  
Why Not L<sup>A</sup>T<sub>E</sub>X?  
A Few L<sup>A</sup>T<sub>E</sub>X  
Features

Bibliography/  
Reference  
Management  
BibTeX and  
Biber  
Mendeley,  
Zotero and Biber

Presentations  
and Posters  
Beamer/Tikz

L<sup>A</sup>T<sub>E</sub>X for  
Linguists

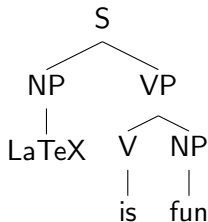
Trees  
Symbols  
Glosses

Extensive  
Online  
Support

This code:

```
\usepackage{qtree}
\Tree [.S
      [.NP LaTeX ]
      [.VP [.V is ] [.NP fun ] ] ]
```

Produces:



# Lots of Pretty Math

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## Sets

`\setof{a,b,c}`

which produces  $\{a, b, c\}$

`\setof{x : walk'(x)}`

which produces  $\{x : walk'(x)\}$

`\tuple{a,b,c}`

which produces  $\langle a, b, c \rangle$

## Symbols

`\neg`

`\&`

`\equiv`

`\equiv`

`\equiv`

`\rightarrow`

`\vee`

`\exists`

`\vdash`

`\in`

`\cup`

`\subset`

`\supset`

`\Rightarrow`

`\wedge`

`\forall`

`\models`

`\times`

`\cap`

`\subseteq`

`\supseteq`

`\equiv`

`\equiv`

`\equiv`

`\equiv`

`\equiv`

`\equiv`

## Greek Letters

`\alpha`

`\gamma`

`\lambda`

`\rho`

`\tau`

`\phi`

`\beta`

`\epsilon`

`\pi`

`\sigma`

`\psi`

`\omega`

# Glosses and Numbering Are Super Easy

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Bibliography/  
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- Example numbers can be continued throughout a document, and modified on-the-fly

- Aligning glosses is easy

```
\usepackage{gb4e}
\begin{exe}
\ex
\gll Stolz ist er auf seine Kinder gewesen. \\
proud is he of his children been\\
\trans ‘He was proud of his children.’
\end{exe}
```

- (1) Stolz ist er auf seine Kinder gewesen.  
proud is he of his children been  
‘He was proud of his children.’

# Support is Everywhere!

## Short title

Adam  
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- Ask Anything (General Support)
  - [tex.stackexchange.com](http://tex.stackexchange.com)
  - [reddit.com/r/LaTeX](http://reddit.com/r/LaTeX)
  - [en.wikibooks.org/wiki/LaTeX](http://en.wikibooks.org/wiki/LaTeX)
- For Linguists
  - <http://www.essex.ac.uk/linguistics/external/clmt/latex4ling/>
  - <https://en.wikibooks.org/wiki/LaTeX/Linguistics>
- Symbols Galore (Complete Lists)
  - <http://tug.ctan.org/info/symbols/comprehensive/symbols-a4.pdf>
  - Draw! <http://detexify.kirelabs.org/classify.html>
  - Pretty <http://zelmanov.ptep-online.com/ctan/symbols.pdf>
- Table Generator <http://www.tablesgenerator.com/>
- Task Management with [todonotes](#)

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# The End

Slides available at ??????