LATEX for linguists

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1 Introduction

LATEX makes nice looking documents. By default it does JUSTIFIED MARGINS, which looks *really* professional. It also does **hyphenation** really well, which is much <u>harder</u> to do than it would *seem*, which is why other programs don't enable hyphenation by default.

2 Methods

We'll talk about linguistic glosses, phonetic characters, trees, AVM's, and semantic/logic symbols.

2.1 Gloss example

- (1) I am going to the store.
- (2) Hem i wokbaot olsem krab He PRED walk about all same crab 'He walks like a crab.'

2.2 Phonetics example

We can see in Penguinese $[k^w a: k^*]$ "stale raisin bread", compared with English /sterl 'aerzin bread/.

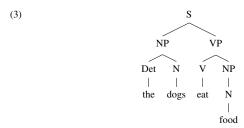
2.3 Tree example

Doing trees with qtree is just like bracketing sentences.¹

1

```
\documentclass[11pt]{article}
\usepackage{mathpazo}
                         % For Palatino font (incl. math chars.)
\usepackage{setspace}
                        % For spacing variation such as double space, etc.
\usepackage{natbib}
                        % For complex bibliography stuff
\usepackage{gtree}
                         % For trees
\usepackage{linguex}
                        % For linguistic glosses
%\usepackage{tree-dvips} % For drawing lines/arrows between two points
\usepackage{txfonts}
                         % For Times font (incl. math chars.)
\usepackage{times}
                         % For Times font
                         % For Phonetic characters
\usepackage{tipa}
                        % For HPSG-style Attribute Value Matrices
\usepackage{avm}
\usepackage{stmaryrd} % For semantic-y [[...]]
%\usepackage[margin=1.50in]{geometry}
\addtolength{\topmargin}{-0.9in}
\addtolength{\textheight}{1.4in}
\title{\LaTeX{} for linguists}
\author{Jon Dehdari}
\bibliographystyle{apalike}
\begin{document}
\maketitle
\begin{spacing}{1.2}
\section{Introduction}
\LaTeX{} makes nice looking documents. By default it does \textsc{Justified Margins},
which looks \emph{really} professional. It also does \textbf{hyphenation} really well,
which is much \underline{harder} to do than it would \textsl{seem}, which is why other
programs don't enable hyphenation by default.
\section{Methods}
We'll talk about linguistic glosses, phonetic characters, trees, AVM's, and semantic/logic
symbols.
\subsection{Gloss example}
I am going to the store.
Hem i wokbaot olsem krab \\
He \textsc{Pred} {walk about} {all same} crab \\
`He walks like a crab.'
\subsection{Phonetics example}
We can see in Penguinese \textipa{[k\super w\ae{}:k\textcorner]} ``stale raisin bread'',
compared with English \textipa{/steIl "\*reIzln brEd/}.
\subsection{Tree example}
Doing trees with qtree is just like bracketing sentences.\footnote{Remember to pad each
bracket with a space on both sides.}
```

¹Remember to pad each bracket with a space on both sides.



2.4 AVM example

SUBJ
$$\begin{bmatrix} PERS & 3 \\ NUM & SG \end{bmatrix}$$

$$PRED & \left\langle NP_{\boxed{1}}, S: \boxed{2} \right\rangle$$
...

2.5 Semantics/Logic example

$$(4) \qquad (G \to E) \lor (G \land \neg C) \tag{4, UI}$$

[ginocchi] is not [gnocchi]

$$\langle \alpha, \beta \rangle \in \Omega \leftrightarrow \forall x \exists y (x \neq y)$$

Results

Here's a table:²

Red	Green	Blue
33%	33%	33%

3 Discussion

As we have seen in the previous table, 33 + 33 + 33 = 100 for large values of 33.

2

```
\Tree[.S [.NP [.Det the ] [.N dogs ] ] [.VP [.V eat ] [.NP [.N food ] ] ] ]
\subsection{AVM example}
\begin{avm}
SUBJ & \[ PERS & 3 \\
         NUM & SG \\
PRED & \< NP$_{\@1}$, S:\@2 \>\\
\]
\end{avm}
\subsection{Semantics/Logic example}
\ex. $ (G \rightarrow E) \lor (G \land \neg C) $ \hfill 4, UI
$\llbracket$ginocchi$\rrbracket$ is not $\llbracket$gnocchi$\rrbracket$
\hat \ alpha , \beta \rangle \in \Omega \leftrightarrow \forall x \exists y ( x \neq
y ) $$
\section*{Results}
Here's a table:\footnote{I actually just made this up.}
\begin{center}
\begin{tabular}{|l|l|l|}
\hline
Red & Green & Blue \\
\hline
\hline
% I don't know what happened to the other 1%
33\% & 33\% & 33\% \\
\hline
\end{tabular}
\end{center}
\section{Discussion}
As we have seen in the previous table, $33 + 33 + 33 = 100$ for large values of 33.
\end{spacing}
%\bibliography{mybib}
\end{document}
```

²I actually just made this up.