

# LIN 300 L<sup>A</sup>T<sub>E</sub>X tutorial

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1. This is a L<sup>A</sup>T<sub>E</sub>X template for linguistic writing in general.
2. The advantages of L<sup>A</sup>T<sub>E</sub>X (in comparison with MS Word):
  - (a) It is free.
  - (b) The output looks beautiful.
  - (c) It automatically numbers examples and aligns glosses.

- (1) This is an example.
- (2)
  - a. This is an English example.
  - b. This is a longer English example.
- (3) This is a Korean example.

*Nwukwu-na ku mwuncey-lul phwu-ess-ta.*  
who-NA that problem-ACC solve-PAST-DECL  
'Everyone solved that problem.'

- (d) Cross-referencing examples is easier.

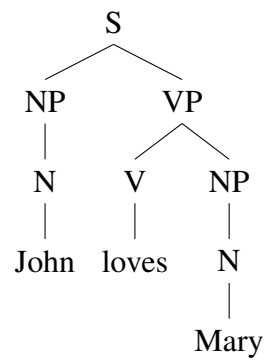
As shown in the example (2b), ...

- (e) L<sup>A</sup>T<sub>E</sub>X files are plain text files so they are smaller in size.
- (f) You can write semantic equations more easily.

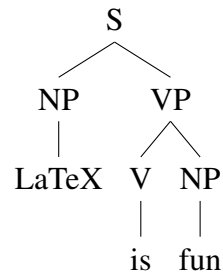
$\llbracket X\text{-na } Q \rrbracket = \forall x_i [(x_i \in X) \supset Q(x_i)]$   
where  $X = \{x_1, x_2, \dots, x_n\}$

$\exists x[white(x) \& dog(x)]$   
 $\forall x[linguist(x) \rightarrow know(x, \text{LaTeX})]$

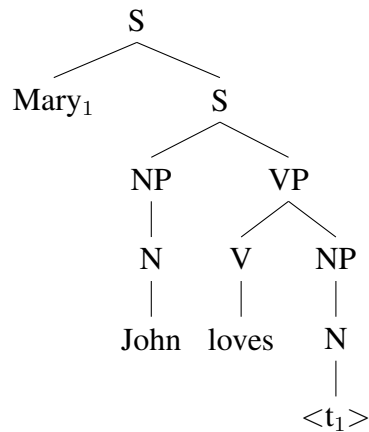
- (g) You can draw syntactic trees without worrying about how/where to draw the lines.



- (h) You center a tree by using “center” command.



- (i) You can draw tree with movement



(j) You can make cool IPA fonts in L<sup>A</sup>T<sub>E</sub>X with the *tipa* package.

abcdefghijklmnopqrstuvwxyz  
 αβϵ̃ϕγñǰɁʌŋηɔʔʕɾθʊɰɹχʏʒ  
 ! \* + = ? . , / [ ] ( ) ' ' | ||  
 ìʌʒɸɐɔʏəə ə  
 α β ε γ ñ ι λ ρ γ  
 d l n r s t z  
 b d g j γ o

(k) You can make really pretty phonological rules too!

$$\left[ \begin{array}{c} +\text{stop} \\ +\text{consonant} \\ +\text{alveolar} \end{array} \right] \rightarrow r / \left[ \begin{array}{c} +\text{vowel} \\ +\text{stressed} \end{array} \right] - \left[ \begin{array}{c} +\text{vowel} \\ +\text{stressed} \end{array} \right]$$

(l) You can draw a nice tabular with latex.

p	q	p	^	q
T	T	T	T	T
F	F	F	F	F
T	F	T	F	T
F	T	F	F	T

3. The advantages of L<sup>A</sup>T<sub>E</sub>X (in comparison with MS Word):

- (a) It is harder to learn.
- (b) It doesn't work well with non-Latin characters.

(c) Syntax errors can make the entire document unusable.