# LingTFX

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Hello linguistics friends! This is some brief documentation for lingtex, a collection of LATEX files that cover quite a lot of what you'll ever need to use LATEX for in the NYU Linguistics department, and maybe beyond. I use this for my problem sets and term papers, and I hope you'll find it useful too.

## 1 Installation & Use

lingtex is not an "official" LATEX package, which means that it's not installed by default on your LATEX distribution. Therefore, to use it, you'll need to copy the file(s) you need into whatever project you're working on.

If you're using Overleaf, I *highly* recommend using the "Add From External URL" feature; this will allow you to import files directly from this GitHub repository into your Overleaf project *and* you can update the files to a new version of I fix any bugs in the code. To do this, you'll need to copy the following URL:

https://raw.githubusercontent.com/jopetty/lingtex/main/lingtex.sty

Next, click on the "File" button in the upper-left-hand corner of your Overleaf project (1). Click on the "From External URL" tab (2), and paste in the URL you just copied. Then click the green "Create" button (3). If you ever need to update the file, click on it and then click on the green "Refresh" button (4).

# 2 Linguistics Features

lingtex provides a number of commands which are generally useful for linguistics:

- \lex{} for lexical items. This sets whatever argument you pass in in italics. For example, \lex{gato} becomes gato. It also allows you to provide an optional translation, which will be placed after in single quotes. For example, \lex[cat]{gato} becomes gato 'cat'.
- \ipa{} for IPA transcriptions. Internally, lingtex defines a special command \ipafont which you can set to an IPA font of your choice. We also load tipa under the hood, so you can use any TIPA commands inside of \ipa{}. For example, \ipa{f@"nEtIks} becomes fə'netiks. We also define some additional commands which build on \ipa{}:

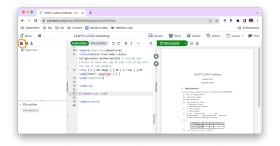


Figure 1: Step 1

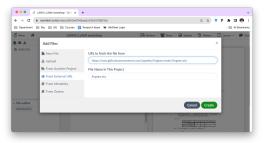


Figure 2: Step 2

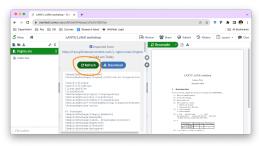


Figure 3: Step 3

Figure 4: Step 4

- \allo{} for allophones. This sets whatever argument you pass in in square brackets. For example, \allo{f@"nEtIks} becomes [fo'netiks].
- \phon{} for phonemes. This sets whatever argument you pass in in slashes. For example,
  \phon{f@"nEtIks} becomes /fə'nɛtiks/.
- \orth{} for orthographic representations. This sets whatever argument you pass in in angle brackets. For example, \orth{cat} becomes \( \cat \). Note that this does *not* use the \ipafont under the hood, since orthographic representations are not written in IPA.
- \den{} for semantic denotations. This sets whatever argument you pass in in double square brackets. For example, \den{cat} becomes [cat].

## 3 Fonts

lingtex provides support for several common fonts choices. By default, documents are set in Times New Roman, since this is requested by most professors in the department. However, you can change this using the 'font' option when loading the package. For example, to set the document in Computer Modern (the default 'LaTeX' font) you can do the following:

#### \usepackage[font=lmodern]{lingtex}

Available options are:

- times for Times New Roman, uses the Doulos SIL font for IPA text;
- lmodern for Computer Modern;

• libertinus for Libertinus;

If you want to use a custom font, you can load it in the normal way (either by including a package for pdfLaTeX or by using fontspec for XeLaTeX or LuaLaTeX). If you want to use a custom font for IPA text, you can set the \ipafont command to the name of the font you want to use.

## 4 Syntax

### 4.1 Examples

lingtex provides a way to auto-load various packages which provide support for numbered examples. By default, none of these will be loaded, since they can cause incompatibility with other code you may have already written. You can specify which package to load by passing the 'examples' option to lingtex when loading the package. For example, to use expex you would do the following:

\usepackage[examples=expex]{lingtex}

The supported options are:

• expex: Loads the expex package.

• gb4e: Loads the gb4e package.

• linguex: Loads the linguex package.

• covington: Loads the covington package.

You can, of course, load any of these packages manually if you'd prefer, but lingtex will also add some custom bug-fixes to make other package options play nicely with each other.

#### 4.2 Trees

Similarly, lingtex provides a way to auto-load various tree-drawing packages. By default, none are loaded, but you can specify which package to load with the trees option. For example, to load forest you would do the following:

\usepackage[trees=forest]{lingtex}

The supported options are:

• forest: Loads the forest package.

• qtree: Loads the qtree package.

• tikz-qtree: Loads the tikz-qtree package.

• pstrees: Loads the pstrees package.

## 5 Phonology

#### 5.1 OT Tableaux

Similarly, lingtex provides a way to auto-load various tableaux packages. By default, none are loaded, but you can specify which package to load with the tableaux option. For example, to load ot-tableau you would do the following:

\usepackage[tableaux=ot-tableau]{lingtex}

The supported options are:

- ot-tableau: Loads the ot-tableau package.
- OTtablx: Loads the OTtablx package. Warning: This package uses ps-tricks under the hood, which is incompatible with pdfLaTeX. It won't throw an error if you try to use this option with pdfLaTeX, but it will display a warning.

#### **5.2** TIPA

By default, lingtex will load tipa (if using pdfIATEX) or tipauni (if using XIIATEX or LuaIATEX). This means that you can use TIPA syntax for entering IPA symbols with the \ipa{} command.

If you don't want to use TIPA syntax, you can pass the tipa=false option when loading the package.

# 6 Bibliographies

By default lingtex will automatically load biblatex using the S&P unified style, created by the journal *Semantics and Pragmatics*. This style should be acceptable for any term papers you'll have in the department. To use a bibliography, you will need to actually add the bib file as a resource, e.g., by adding

\addbibresource{references.bib}

to the preamble and then adding

\printbibliography

where you want the bibliography to appear.

If, however, you don't want to use biblatex, you can pass the biblatex=false option to lingtex when loading the package. This will prevent lingtex from loading biblatex in case you want to use a different bibliography package (like natbib) or if you to load biblatex manually with different options.