The covington Package Macros for Linguistics

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Abstract

This package, initially a collection of Michael A. Covington's private macros, provides numerous minor LATEX enhancements for linguistics, including multiple diacritics on the same letter, interlinear glosses (word-by-word translations), Discourse Representation Structures, example numbering, and semantic markup.

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1 Introduction

This is the documentation for version 2.9 of covington (May 26, 2023), which is a Lagrange providing macros for typing some special notations common in linguistics.¹

To use covington, load the package by adding the command \usepackage{covington} to your document preamble. The package has the following options:

force=(**true**|**false**) Default: *false*. Force the redefinition of environments that have already been defined by other packages or the class.

This applies to the **example**, **examples**, **subexamples** and **exercise** environments, which are by default not touched if they are already defined before covington is loaded. See sec. 3.2, 3.3, 3.4 and 8 for details.

keeplayout=(true|false) Default: false. Do not tweak the layout.

Covington sets \raggedbottom and redefines the value of the \textfloatsep length. This just follows the preferences of the original package author and is not necessary for the package's functionality. Yet for backwards compatibility reasons, we cannot change this. Thus, we provide the option described here to opt out this presetting.

noglossbreaks=(**true**|**false**) Default: *false*. If this option is set to **true**, covington will try hard to prevent page breaks within glosses.

If this option is not set, page breaks can occur between interlinearized text and free translation of a gloss, as well as between gloss preamble and interlinearized text, which is usually not what you will want. Nonetheless the option is not set by default. This is for backwards compatibility reasons (in order to not change page breaking of existing documents). Note that page breaks might still occur in some cases even if the option is set. In order to prevent them definitely, you can put the gloss in a parbox or minipage.

owncounter=(true|false) Default: false. Use an own counter for numbered examples.

By default, covington uses Lagarian Strategy in the same paper, you get a single continuous series of numbers. While some people (including the original author of this package) consider this a feature, others might prefer to number equations and linguistic examples separately. If you count to the latter sort, use this option.

fnexamplecounter=(main|own|own-reset) Default: *main*. Specifics of the counter for numbered examples in footnotes.

By default, covington numbers examples in footnotes in sequence with the numbering used in the main text (this conforms to the default value of this

 $^{^1}$ The package has a long history. It started off as a collection of private macros back in the LATEX 2.09 days and was initially released as covingtn.sty (following the old 8.3 FAT file name limit). In emTeX under MS-DOS, the file was distributed as covingto.sty. Eventually, it has been renamed to covington and adapted to LATEX 2 $_{\mathcal{E}}$.

option, fnexamplecounter=main). If you set fnexamplecounter=own, examples in footnotes get a different numbering which is incremented throughout the whole footnote apparatus.² If you set fnexamplecounter=own-reset, examples in footnotes get an own counter as well, but this variant resets the counter at each footnote (similar to linguex and gb4e).³ Both own counters use lowercase Roman numbering by default (see sec. 3.5.2 on how to change this)

Please note the following package-related caveats:

- If you are using covington and the uga (University of Georgia thesis style) package together, you should load uga before covington.
- If you are using covington with beamer-article, you should load beamer-article before covington.
- If you are using covington with the drs package, you should load drs before covington. See sec. 7.

In what follows we presume that you know how to use LTEX and have access to LTEX manuals.

2 Stacked diacritics

LATEX provides a generous range of diacritics that can be placed on or below any letter, such as:

```
\grave{x}\; \acute{x}\; \grave{x}\; \check{x}\; \check{x}\; \check{x}\; \check{x}\; x \\ \grave{x}\; \dot{x}\; \dot{x}\;
```

which are typed, respectively, as:

```
'\{x\} \ '\{x\} \ '\{x\} \ '=\{x\} \ H\{x\} \ t\{xx\} \ c\{x\} \ b\{x\}
```

Out of the box, however, LTEX doesn't give you a convenient way to put *two* diacritical marks on the same letter. To fill this gap, covington provides the following macros:

\twodias{<upper diac.>}{<lower diac.>}{<char>}

to combine any two diacritics, e.g., $\t wodias{\=} {a} = \bar{a}$

```
\acm{...} for acute over macron, e.g., \acm{a} = \bar{a}
```

 $\grm{...}$ for grave over macron, e.g., $\grm{a} = \dot{a}$

\cim{...} for circumflex over macron, e.g., \cim{a} = \bar{a}

The first of these is the general case⁴ and the latter three are special cases that are often used in Greek transcription. Now you can type *Koinē* with both accents in place.

The vertical distance between the two diacritics can be adjusted via the macro \SetDiaOffset{<length>} which lets you increase or decrease the vertical space that is currently in effect. If you'd use \SetDiaOffset{-0.25ex}, the above examples would come out as

²The previous option **ownfncounter** is still supported, but deprecated.

³The previous option ownfncounter* is still supported, but deprecated.

⁴Alternatively, there's also the old syntax \twoacc[<upper diac.>|<char with lower diacr.>], e.g. \twoacc[\-|\={a}] to the same effect, which is however discouraged due to its rather odd form.

\twodias{<upper diac.>}{<lower diac.>}{<char>}

to combine any two diacritics, e.g., $\text{twodias}(\)=\{a\} = \tilde{a}$

```
\acm{...} for acute over macron, e. g., \acm{a} = \hat{a} \grm{...} for grave over macron, e. g., \grm{a} = \hat{a} \cim{...} for circumflex over macron, e. g., \cim{a} = \hat{a}
```

with a slightly better matching distance for the font used here.

Note that not all accent macros work in the tabbing environment. Use the Tabbing package or refer to [6] for alternative solutions.

3 Numbered examples

Linguistic papers often include numbered examples. With covington, generating those is straightforward. In this section, we describe how you can typeset a self-stepping example number (see section 3.1), a single numbered example (sec. 3.2), a consecutive range of numbered examples (sec. 3.3), and alpha-numerically labeled sub-examples (sec. 3.4).

Covington's numbered examples can be customized in many ways. For instance, you can make them by default be typeset in italics, as common in linguistics (see sec. 3.5.3), you can adjust the way the numbers are displayed (see sec. 3.5.2), and you can customize the spacing and indentation if the default settings do not suit you (see sec. 3.5.1).

All numbered examples can be referred to in the text via \label and \ref as usual, and with a convenience macro \pxref that adds the parentheses that are usually used in example references (see sec. 3.6 for details).

3.1 Example numbers

The macro **\exampleno** generates a new example number, stepped by 1. It can be used anywhere you want the number to appear. For example, to display a sentence with a number at the extreme right, do this:

```
\begin{flushleft}
This is a sentence. \hfill (\exampleno)
\end{flushleft}
```

Here's what you get:

If you want to output the (current) number without stepping it, the starred form \exampleno* will do that.

Normally, however, you do not need to manually place **\exampleno** yourselves, as in the example above. For the common case where example numbers in parentheses are placed left to the example, covington provides more convenient solutions. These are described in turn.

3.2 The example environment

The **example** environment (alias **covexample**⁵) displays a single example with a generated example number to the left of it. If you type

```
\begin{example}
This is a sentence.
\end{example}
```

or

```
\begin{covexample}
This is a sentence.
\end{covexample}
```

you get:

(2) This is a sentence.

The example can be of any length; it can consist of many lines (separated by \\), or even whole paragraphs.

The **example** environment provides the following options:

- preamble={(arbitrary text)} Arbitrary text that is inserted on an own line after the
 example number (preceding the actual example text). This might be useful, for
 instance, to give context information, to specify the language or the source in
 case of cited examples. The advantage over just adding a line manually in the
 example is that you can globally or locally set the markup with the fspreamble
 option.
- postamble*={(arbitrary text)} A variant of postamble that does not add a space.
 This might be preferred if you want to add a footnote. Note that postamble and
 postamble* are mutually exclusive.

⁵As of version 1.1, covington checks if there is already an example environment defined (e.g., by the class). If so, covington does not define its own one. The alias environment **covexample** which can be used in order to produce covington's example, however, is always defined and can be used in such cases. If you use the package option **force**, covington will override existing example environments. In any case, the package will issue a warning if example is already defined (this is the case, for instance, if you use covington with the beamer class).

- fsno={\(font settings \) } Default: {\normalfont\upshape}. Adjusts the font settings of the example number. Valid values are LaTeX font switches such as \itshape, \\bfseries etc.
- **fspreamble=**{\(font settings \) \} Default: {\normalfont\upshape}. Adjusts the font settings of the preamble text. Valid values are L*TEX font switches such as \itshape, \bfseries etc.
- **leftmargin={**(**length**)} Default: {0pt}. Lets you change the indentation of examples (including number). Positive values will increase, negative values will decrease the indentation of the example.
- $\begin{tabular}{ll} \textbf{addnumbersep=} \{\langle \textbf{length} \rangle \} & Default: \{ \texttt{Opt} \}. Increases or (with negative values) decreases \\ & the spacing between example number and example. \\ \end{tabular}$
- $\label{lem:numberformat} $$ numberformat = {\langle arabic | roman | Roman | alph | Alph \rangle} $$ Default: $$ arabic. The format of the example number.$
- fnnumberformat={(arabic|roman|Roman|alph|Alph)} Default: roman. The format of
 the example number if fnexamplecounter=own or fnexamplecounter=own-reset
 and example is in a footnote.

If you want the postamble text be on a line of its own, simply add a line break (i. e., postamble={\\Text}).

(3) This example showcases the example options Das ist ein Satz. (German)

It has been typed as:

The output of examples can be adjusted globally. You can once and for all set the markup, e.g., to set all examples in italics, as common in linguistics, while pre- and postamble text are still in upright or any other font you prefer (see sec. 3.5.3). Also, you can adjust the spacing of examples, i. e., the indentation of the numbers and the spacing between numbers and example text (see sec. 3.5.1).

3.3 The examples environment

To display a series of examples together, each with its own example number, use **examples** (or **covexamples**⁶) instead of **example** or **covexample**. There can be more than one example with this environment, and each of them has to be introduced by \item, like this:

```
\begin{examples}
\item This is the first sentence.
\item This is the second sentence.
\end{examples}
```

or, respectively:

```
\begin{covexamples}
\item This is the first sentence.
\item This is the second sentence.
\end{covexamples}
```

This prints as:

- (4) This is the first sentence.
- (5) This is the second sentence.

To add additional text to specific items (analogous to the **preamble** option of the **example** environment), you can use the **\expreamble** macro, like this:

```
\begin{examples}
\item \expreamble{Here is Jakobson's famous poetic example:}
    I like Ike!
\item \expreamble{Here is the less poetic variant:}
    I am in favor of Mr. Eisenhower.
\end{examples}
```

which prints:

(6) Here is Jakobson's famous poetic example:

I like Ike!

(7) Here is the less poetic variant:

I am in favor of Mr. Eisenhower.

Again, the advantage over just adding a line manually in the example is that this respects the global markup of example sentences and the potentially separate markup of preamble text (see sec. 3.5.3).

Along the same line, trailing text (analogous to the **postamble** option of the **example** environment) can be added to specific items via the **\expostamble** macro, like this:

⁶As for **example**, covington checks if there is already an examples environment defined, and if this is the case, covington does not define its own one. The alias environment **covexamples** is always available as a fallback. If you use the package option **force**, covington will override existing examples environments. The package will issue a warning if **examples** is already defined (this is the case, for instance, if you use covington with the beamer class), telling you how it has dealt with the situation.

```
\begin{examples}
\item I like Ike! \expostamble{(Jakobson 1960: 357)}
\item I am in favor of Mr. Eisenhower.\expostamble{\footnote{He actually wasn't.}}
\end{examples}
```

which results in:

- (8) I like Ike! (Jakobson 1960: 357)
- (9) I am in favor of Mr. Eisenhower.⁷

Also here, the advantage over just adding text as is in the example is that this has its own, globally settable markup, which is particularly relevant if you globally set examples to be italicized (see sec. 3.5.3).

Like in any other LaTeX list, the numbering can be freely set via the optional argument of \item. For a somewhat practical example, consider

```
\begin{examples}
\item A proposition.
\item[\covexnumber{\exampleno*'}] An alternative proposition.
\end{examples}
```

which results in:

- (10) A proposition.
- (10') An alternative proposition.

The **examples** environments accepts the same options than the **example** environment. Only **preamble** and **postamble**[*] do not have any effect.

Please refer to sec. 3.5.1 for ways to adjust the spacing of the environment and to sec. 3.5.2 and 3.5.3 for possibilities to customize the appearance.

3.4 The subexamples environment

Sometimes a set of (paradigmatic) sub-examples gets only one main example number with alphabetic sub-numbering, as in (12 a). An ad-hoc way to achieve this is to use itemize or enumerate within an example with customized items, like this:

```
\begin{example}
\begin{itemize}
\item[(a)] This is the first sentence.
\item[(b)] This is the second sentence.
\end{itemize}
\end{example}
```

This prints as:

(11) (a) This is the first sentence.

 $^{^7\}mathrm{He}$ actually wasn't.

(b) This is the second sentence.

However, the **subexamples** (or **covsubexamples**⁸) environment, described in what follows, is usually more convenient for this task. As opposed to **examples**/**covexamples**, this environment sub-numbers its items. Thus

```
\begin{subexamples}
\item This is the first sentence.
\item This is the second sentence.
\end{subexamples}
```

or, respectively:

```
\begin{covsubexamples}
\item This is the first sentence.
\item This is the second sentence.
\end{covsubexamples}
```

prints as:

- (12) (a) This is the first sentence.
 - (b) This is the second sentence.

The subexamples/covsubexamples environment provides the following options:

- preamble={(arbitrary text)} Arbitrary text that is inserted on the first line (after the main number and before the first sub-example, which then follows on a new line). This might be useful, for instance, to give context information, to specify the language or the source in case of cited sub-examples.
- postamble={\(arbitrary text \) } Arbitrary text that is appended after all sub-examples
 (on a new line). This might be useful to add a reference or an explanation to the
 set
- fs={\(font settings \)\} Default: {\normalfont\upshape}. Adjusts the font settings of the example text. Valid values are LATEX font switches such as \itshape, \bfseries etc.
- fsno={\(font settings \) \} Default: {\normalfont\upshape}. Adjusts the font settings of the example number. Valid values are LaTeX font switches such as \itshape, \bfseries etc.
- fspreamble={\(font settings \) } Default: {\normalfont\upshape}. Adjusts the font settings of the preamble text. Valid values are \(\mathbb{E}T_EX \) font switches such as \\\ itshape, \\\ bfseries etc.
- $\begin{tabular}{ll} fspostamble={$\langle font \ settings \rangle$} & Default: {$\backslash extings \rangle$}. & Adjusts the font settings of the postamble text. Valid values are LaTeX font switches such as $$\langle itshape, \bfseries etc. \end{tabular}$

⁸The fallback mechanism described in footnote 5 for example apply here, too.

- **leftmargin=**{\(\lambda\) Default: \(\lambda\) Lets you change the indentation of subexamples (including number). Positive values will increase, negative values will decrease the indentation of the example.
- addnumbersep={\left(length)\right)} Default: {Opt}. Increases or (with negative values) decreases the spacing between example number and subnumber.
- addsubnumbersep={(length)} Default: {0pt}. Increases or (with negative values) decreases the spacing between example subnumber and example.
- $\label{lem:numberformat} $$\operatorname{numberformat}_{\{\alpha = bic \mid roman \mid Roman \mid alph \mid Alph \}}$$ Default: $$arabic.$$ The format of the example number.$
- **subnumberformat=**{\(\arabic\)| roman\|\arabic\|\noman\|\alph\|\alph\)\} Default: \(alph\). The format of the sub-example number.
- fnnumberformat={(arabic|roman|Roman|alph|Alph)} Default: roman. The format of
 the example number if fnexamplecounter=own or fnexamplecounter=own-reset
 and example is in a footnote.

For instance,

```
\begin{subexamples}[preamble={Here are two sentences},postamble={(Doe 1974: 12)}]
\item This is the first sentence.
\item This is the second sentence.
\end{subexamples}
```

or, respectively:

```
\begin{covsubexamples}[preamble={Here are two sentences},postamble={(Doe 1974: 12)}] \item This is the first sentence. \item This is the second sentence. \end{covsubexamples}
```

prints as:

- (13) Here are two sentences
 - (a) This is the first sentence.
 - (b) This is the second sentence.

(Doe 1974: 12)

The advantage of these options over just adding text manually in the example is that text which is inserted like this uses its own markup as opposed to the markup of the example sentences (sec. 3.5.3 elaborates how to adjust this, e.g., if you want to follow the convention to set example sentences in italics).

To add additional text to specific subitems, you can use the **\subexpreamble** macro, which uses the same markup than the **preamble** option, and thus provides the same advantage over adding text as is.⁹ For instance

⁹You might wonder: Why not use **\expreamble** (sec. 3.3) here? In fact, you can. We just provide a separate macro for the case that you want to make appear subexample pre- or postamble text different than the one in examples. All these macros actually work in all example environments.

```
\begin{covsubexamples}[preamble={Here are two sentences}]
\item This is the first sentence.
\item \subexpreamble{Note particular this one}

This is the second sentence.
\end{covsubexamples}
```

prints:

- (14) Here are two sentences
 - (a) This is the first sentence.
 - (b) Note particular this one This is the second sentence.

Along the same line, trailing text (analogous to the **postamble** option) can be added to specific subitems via the **\subexpostamble** macro, like this:

```
\begin{subexamples}
\item This is the first sentence. \subexpostamble{(Miller 2022: 15)}
\item This is the second sentence.\subexpostamble{\footnote{My own.}}
\end{subexamples}
```

which results in:

- (15) (a) This is the first sentence. (Miller 2022: 15)
 - (b) This is the second sentence. 10

Customization possibilities of examples and subexamples are elaborated in the following section.

3.5 Customization of examples

3.5.1 Customizing example spacing

If you need more space between the example number and the text (or the subnumber in case of subexamples), you can increase it by means of the **addnumbersep** example option.

If you need to change the indentation (left margin) of examples and subexamples, you can do so by means of the **leftmargin** example option. Doing **leftmargin=lem**, for instance, will increase the indentation by 1 em, negative values will decrease it accordingly. So, for instance,

```
\begin{example}[leftmargin={-2.2em},addnumbersep={-0.4em}]
This is a marginal case.
\end{example}
```

will come out like this:

¹⁰ My own.

(16) This is a marginal case.

In case of **subexamples**, the distance between example subnumber and text can be changed via the **addsubnumbersep** option. Again, a positive value will increase, a negative value will decrease the distance. Doing

```
\begin{subexamples}[addnumbersep={-0.4em},addsubnumbersep={0.4em}] \item This is the first sentence. \item This is the second sentence. \end{subexamples}
```

for instance, will yield:

- (17) (a) This is the first sentence.
 - (b) This is the second sentence.

3.5.2 Customizing number display

You can change the display of the example number by redefining (via \renewcommand*) the macro \covexnumber, which has the following default definition:

```
\newcommand*\covexnumber[1]{(#1)}
```

with the variable #1 representing the number. If you use <code>ownfncounter</code>, example numbers in footnotes use this macro as well. If you want a different display, you can redefine

The separate footnote example number with ownfncounter uses lowercase Roman (\roman) numbering by default. By redefining the macro \fnexfmt which links to \roman by default, this can be changed. E. g., to get an arabic number instead, do:

```
\let\fnexfmt\arabic
```

The display of the subexample letter can be customized by redefining the macro \covsubexnumber, which has the following default definition:

```
\newcommand*\covsubexnumber[1]{(#1)}
```

To remove the parentheses from the subexample letter, for instance, to this:

```
\renewcommand*\covsubexnumber[1]{#1}
```

By default, subexamples use lower alphabetic numbering (\alph). If you want to change that, you can redefine the macro \subexfmt which links to \alph by default, e.g. like so:

\let\subexfmt\roman

to achieve

- (18) (i) This is a subexample.
 - (ii) This is another one.

3.5.3 Customizing example markup

Example markup can be customized via the fs* example options. This way, all elements of examples (number, actual example text, pre- and postamble) can be marked up independently from each other. Just to showcase the most common option, the example in italics. This can be done by globally or locally setting fs=\itshape, as in:

which results in:

(19) This is the preamble

This is the example. (Postamble)

Analogously, you can adjust the example number font (fsno), the preamble font (fspreamble), and the postamble font (fspostamble).

3.6 Referring to examples

References to examples and sub-examples can be made the usual way via the \ref command (which refers to a \label that is placed in the respective example paragraph). The references do not have parentheses by default, i. e., a reference to the example in section 3.2 would be printed as 2, a reference to the sub-example in section 3.4 as 12 a. For convenience, though, covington provides a command \pxref that also prints the parentheses, as in (2) and (12 a). It is defined as follows and can be redefined if needed:

```
\providecommand*\pxref[1]{(\ref{#1})}
```

4 Glossing sentences word-by-word

To gloss a sentence is to annotate it word-by-word. Most commonly, a sentence in a foreign language is followed by a word-for-word translation (with the words lined up vertically) and then a smooth translation (not lined up), like this:

```
Dit is een Nederlands voorbeeld
This is a Dutch example
'This is an example in Dutch.'
```

Covington provides different ways to typeset such glosses. The most convenient way is via gloss macros (see sec. 4.1), an alternative (and the traditional) way is via a set of commands (see sec. 4.2). Both are described in turn.

4.1 Gloss macros

Covington provides two gloss macros:

- \digloss[\langle options \rangle] \{\langle gloss line 1\rangle} \{\langle gloss line 2\rangle} \{\langle free translation \rangle}\} typesets two-line glosses with a translation line (the macro name puns on Greek \(diglossia\), lit. 'two tongues', 'bilingualism')
- \trigloss[\langle options \rangle] {\langle gloss l. 2\rangle} {\langle gloss l. 3\rangle} {\langle free tr.\rangle} typesets three-line glosses with a translation line (cf. Greek triglossía, lit. 'three tongues', 'trilingualism')

The example given above would thus be typed as:

```
\digloss{Dit is een Nederlands voorbeeld}
{This is a Dutch example}
{This is an example in Dutch.}
```

Note that:

- The (free translation) argument can be left empty. In this case, no translation line is added (and no extra space taken).
- The macros automatically markup the lines. By default, the first gloss line is in italics, subsequent lines are set upright, and the free translation in single quotation marks (using the language-sensitive csquotes [5] macros if this package is loaded). This can be customized, though, via the macro options or globally (for the latter, see sec. 4.3).
- By default, page breaks might occur within glosses. In order to prevent it, the
 option noglossbreaks (see sec. 1) will help in many cases. If it doesn't, you can
 wrap the whole gloss into a minipage or parbox.
- The words do not have to be typed lining up; TFX counts and aligns them.
- On the other hand, multiple blanks are ignored, so you can, but do not need to, use the space key to line up the words to your liking in the TEX file. The example above could thus also have been input like this, with no change to the output:

```
\digloss{Dit is een Nederlands voorbeeld}
{This is a Dutch example}
{This is an example in Dutch.}
```

 If the words in the two languages do not correspond one-to-one, you can use curly brackets to group words and a pair of empty curly brackets to mark null forms. For example, to print

 $^{^{11}\}mathrm{The}$ additional line can be useful for instance to gloss cited forms, morphology, or an additional translation. See sec. 4.4 for examples.

Dit is een voorbeeldje in het Nederlands This is a little example in Dutch 'This is a little example in Dutch.'

you would type:

The following (options) (key-value pairs) are provided for the two gloss macro:¹²

- **ex=**(**true**|**false**) Default: *false*. Wraps the gloss in an example environment (i. e., it is numbered).
- tlr=(true|false) Default: false. If set to true, the translation line (content of the (free translation) argument) is set right to the gloss lines, rather than into a new line below. Since the gloss itself is set in a box, this means the (free translation) will appear lined up with the first line of the gloss. This can be useful when no translation, but an aligned number or something similar, is to be inserted right to the gloss (please refer to sec. 4.4 for an example).
- fsi={\(font settings \) \} . Default: Default: \(\normalfont\\ itshape \} \). Adjusts the font
 settings of the first gloss line. Valid values are LaTeX font switches such as
 \\\ itshape, \\\ bfseries etc.
- fsii={\font settings\} Default: Default: \normalfont\upshape\}. Adjusts the font settings of the second gloss line. Valid values are LTEX font switches such as \itshape, \bfseries etc.
- fsiii={\(font settings \) } Default: {\normalfont\upshape}. Adjusts the font settings of the third gloss line (in case of \trigloss). Valid values are \(\mathbb{E}\)TeX font switches such as \itshape, \bfseries etc.
- fstl={\font settings\} Default: {\normalfont\upshape}. Adjusts the font settings
 of the translation line. Valid values are LTEX font switches such as \itshape,
 \bfseries etc.
- **enquotetl=**(**true**|**false**) Default: *true*. By default, the translation line is embraced in single quotation marks. Set this option to (false) to omit this.

Note that for <code>enquotetl=true</code>, covington checks at document begin whether the csquotes [5] package is loaded. If so, it uses its language-sensitive <code>\enquote*</code> macro for enquoting the translation. If not, a fallback quotation (using English single quotation marks) is used. The usage of csquotes is highly recommended!

¹²Please consult sec. 4.4 below for examples that showcase these options.

preamble={(arbitrary text)} Arbitrary text that is inserted on an own line before
 the interlinearized gloss. This might be useful, for instance, to give context
 information, to specify the language or the source in case of cited glosses.

The advantages over just adding a line manually above the gloss are that you can locally and globally set the markup with the **fspreamble** option, and that such lines are kept on the same page than the gloss with the option **noglossbreaks** (at least as long as preamble does not exceed one line). Furthermore, this option is the only way to add such text when the **ex** option is used.

- postamble={(arbitrary text)} Arbitrary text that is appended to the translation line, but after the closing quotation mark. This might be useful to add a footnote or some additional text to the translation line, after the actual translation.
- fspreamble={\(font settings \) \} Default: {\normalfont\upshape}. Adjusts the font settings of the preamble line. Valid values are LTEX font switches such as \itshape,
 \bfseries etc.
- **fspostamble=**{\(font settings \) \) Default: {\normalfont\upshape}. Adjusts the font settings of the postamble line. Valid values are LaTeX font switches such as \itshape, \bfseries etc.

If given as optional arguments to a **\digloss** or **\trigloss** macro, the options will only apply to this very gloss. If you want to make a permanent change, you can use the macro

• \setglossoptions{\langle options\rangle}

and pass either of the above options to it. This will apply to all subsequent glosses (until further global change and unless the setting is altered locally via macro option).

4.2 Glossing with low-level commands

The gloss macros described above build on low-level commands¹³ which can also be used directly (this was actually the only way up to covington 2.0 which introduced the macros). Low-level commands can be useful if you want to do fancy things in a gloss. Note, though, that using them also has limitations: Some commands cannot be used inside macros (such as footnotes), and the markup is not done automatically in all cases (as documented in what follows); furthermore, you cannot make use of the options the macros have. Thus, we strongly suggest to use the macros, unless you have very good reasons not to do that.

The following is a complete list of all low-level glossing commands:

\gll introduces two lines of words vertically aligned, and activates an environment very similar to flushleft. The two lines are separated by a normal line break (carriage return). This is possible since the command makes the line-ending character active. As a consequence, however, this command does not work inside macros (such as \footnote).

 $^{^{13}\}mathrm{The}$ commands are adapted with permission from gloss.tex, by Marcel R. van der Goot.

- \gll is like \gll except that it introduces *three* lines of lined-up words.
- \xgll is similar to \gll except that it does not make the line ending active. It thus works inside macros such as footnotes but requires explicit gloss line termination via \xgle.
- \xglll is similar to \glll except that it does not make the line ending active. It thus works inside macros such as footnotes but requires explicit gloss line termination via \xgle.
- \xgle is a gloss line ending marker to be used with \xgll and \xglll.
- \glt ends the set of lined-up lines and introduces a line (or more) of translation. Note that this command does not markup the translation line (no automatic enquoting). Also, it outputs an empty line if no text follows.
- \gln is like \glt but does not start a new line (useful when no translation follows but you want to put a number on the right).
- \glot{\free translation}} is an alternative to \glt and a smarter way to insert a translation line. Other than \glt, it marks up (by default: enquotes) the translation line. Also, it does not add an empty line if the translation is empty. This command has been introduced in covington 2.0. The markup can be customized by redefining the following macro:

```
\newcommand*\glosslinetrans[1]{%
    \bgroup\cov@fstl\ifcov@enquote@tl\covenquote{#1}\else#1\fi\egroup}
```

Note that for \covenquote, as used in the default definition, covington checks at document begin whether the csquotes [5] package is loaded. If so, it uses its language-sensitive \enquote* macro for enquoting the translation. If not, a fallback quotation (using English single quotation marks) is used. The usage of csquotes is highly recommended! The \ifcov@enquote@tl boolean checks for the enquotetl option of the gloss macro. The macro \cov@fstl holds the font settings as set via the fstl gloss option. These are both relevant also for low-level commands if you set the respective options via \setglossoptions.

\glosspreamble{\(arbitrary text\)\} lets you enter text that is printed immediately before the interlinearized gloss (on a line of its own). This might be useful, for instance, to give context information, to specify the language or the source in case of cited glosses. The advantages over just adding a line manually above the gloss are that you can globally set the markup (see sec. 4.3) and that such lines are kept on the same page than the gloss with the option noglossbreaks. Note, however, that page breaks might occur if this text spans multiple lines. In this case, you can wrap the whole gloss into a minipage. This command has been introduced in covington 2.1.

\glend ends the special flushleft-like environment.

Using the low-level commands, the examples given in the previous section would be coded as follows:

```
\gll Dit is een Nederlands voorbeeld.

This is a Dutch example.
\glt 'This is an example in Dutch.'
\glend
```

```
\gll Dit is een voorbeeldje in het Nederlands
This is a {little example} in {} Dutch
\glt 'This is a little example in Dutch.'
\glend
```

Observe that you need to markup (i. e., enquote) the translation line yourself if you use \quad \quad \quad \quad \text{lt.} This is not so if you use \quad \quad \quad \quad \text{lt.}

```
\gll Dit is een Nederlands voorbeeld
This is a Dutch example
\glot{This is an example in Dutch.}
\glend
```

The advantage of \glot is that you can easily customize the translation markup globally. Also, \glot uses the language-sensitive csquotes [5] macros if this package is loaded (see sec. 4.3).

Since \gll and \gll locally activate the end of line in glosses in order to identify the different lines of the gloss (via category code change), they do not work inside macros (e.g., if the gloss is in a footnote). To work around this, special versions of the \gll and \gll commands are provided that do without the character activation: \xgll and \xgll, respectively. These can also be used in macro arguments; however, the end of each gloss line needs to be explicitly specified by the \xgle command in this case. If you want to put the above gloss in a footnote, thus, you would type:

```
\xgll Dit is een voorbeeldje in het Nederlands.\xgle
This is a {little example} in {} Dutch.\xgle
\glt 'This is a little example in Dutch.'
\glend
```

Note, again, that the macros described in sec. 4.1 do not have this problem.

To sum up: With low-level commands, every glossed sentence begins with either \gll, \xgll, \glll or \xgll, then contains either \glt or \gln, and ends with \glend. Layout is critical in the part preceding \glt or \gln, and fairly free afterward.

4.3 Customization of glosses

Glosses (font settings and markup for different elements) can be adjusted locally via gloss options of globally by way of the global options macro \setglossoptions (see sec. 4.1).

4.4 Example glosses

This section gives some further examples. First, a sentence with three lines aligned, instead of just two:

```
HocestaliudexemplumN.SG.NOM3SGN.SG.NOMN.SG.NOMThisisanotherexample
```

'This is another example.'

In order to produce this, we use the **\trigloss** macro for a three-line gloss and pass the **fsii** option with the respective font switches in order to get small capitals in the second line:

Next, an example with a gloss but no translation, with an example number at the right:

```
Hoc habet numerum (20)
This has number
```

That one was typed using the option tlr:

```
\digloss[tlr]{Hoc habet numerum}
{This has number}
{\hfill (\exampleno)}
```

Third, we'll put a glossed sentence inside the example environment, which is a very common way of using it:

(21) Hoc habet numerum praepositum
This has number preposed

'This one has a number in front of it.'

This last example was, of course, typed as:

```
\digloss[ex]{Hoc habet numerum praepositum}
{This has number preposed}
{This one has a number in front of it.}
```

although you could also construct it manually as:

```
\begin{example}
\digloss{Hoc habet numerum praepositum}
     {This has number preposed}
     {This one has a number in front of it.}
\end{example}
```

Here is an example that uses the *Leipzig glossing rules* ([1], cited example: p. 2) and also exemplifies the use of **preamble**:

(22) Lezgian (Haspelmath 1993:207)
Gila abur-u-n ferma hamišaluğ güğüna amuq'-da-č.
now they-obl-gen farm forever behind stay-fut-neg
'Now their farm will not stay behind forever.'

This has been input as follows:

```
\digloss[ex,preamble={Lezgian (Haspelmath 1993:207)}]
{Gila abur-u-n ferma hamišalu\v{g} gü\v{g}üna amuq'-da-\v{c}.}
{now they-\textsc{obl-gen} farm forever behind stay-\textsc{fut-neg}}
{Now their farm will not stay behind forever.}
```

Of course, you would use \cite in a real document for the citation. Also, if you adhere to the *Leipzig glossing rules*, you might want to check out the leipzig Lagarantee [7] that facilitates the use of the gloss abbreviations that have been entered and marked-up manually here.

The final example exemplifies the use of **postamble**. In what follows we add a footnote to the translation line, but outside the translation (as marked-up by quotation marks):

(23) Mein Luftkissenboot ist voller Aale My hovercraft is full of eels 'Do you have matches?'¹⁴

This has been input as follows:

```
\digloss[ex, postamble={\footnote{Yes, really!}}]
{Mein Luftkissenboot ist voller Aale}
{My hovercraft is {full of} eels}
{Do you have matches?}
```

5 Phrase structure rules

To print phrase structure rules such as $S \to NP \ VP$ you can use covington's macro $\print{sr{spr{sr{s}{NP-VP}}}}$ (for the given example, $\print{sr{s}{NP-VP}}$).

6 Feature structures

To print a feature structure such as

```
case: nom person: P
```

you can type:

```
\fs{case:nom \\ person:P}
```

¹⁴Yes, really!

The feature structure can appear anywhere – in continuous text, in a displayed environment such as flushleft, or inside a phrase-structure rule, or even inside another feature structure.

To put a category label at the top of the feature structure, like this,

```
N

[ case : nom | person : P ]
```

here's what you type:

```
\lfs{N}{case:nom \\ person:P}
```

And here is an example of a PS-rule made of labeled feature structures:

```
 \begin{array}{c|c} S & \rightarrow & NP & VP \\ [\text{tense}:T] & \begin{bmatrix} \text{case}:\text{nom} \\ \text{number}:N \end{bmatrix} & \begin{bmatrix} \text{tense}:T \\ \text{number}:N \end{bmatrix}
```

which was obviously coded as:

```
\psr{\lfs{S}}{tense:T}}
{\lfs{NP}{case:nom \\ number:N}
\lfs{VP}{tense:T \\ number:N} }
```

7 Discourse Representation Structures

Several macros in covington facilitate display of *Discourse Representation Structures* (DRSes) in the box notation introduced by Hans Kamp [4]. The simplest one is \drs, which takes two arguments: a list of discourse variables joined by ~, and a list of DRS conditions separated by \\. Nesting is permitted.

Note that the \drs macro itself does not give you a displayed environment; you must use flushleft or the like to display the DRS.

Here are some examples:

prints as:

```
donkey(X)
green(X)
```

```
\begin{flushleft}

\drs{X}

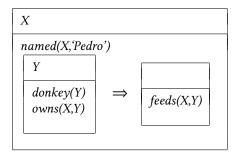
{
    named(X, 'Pedro')\\
    \drs{Y}

    {
        donkey(Y)\\
        owns(X,Y)
    }

    ~~{\large $\Rightarrow$}~
    \drs{~}
        {feeds(X,Y)}
    }

\end{flushleft}
```

comes out as:



Note that the alignment of the input is fairly free, so you can also write the two arguments of $\drule drs$ in one line, like:

```
\drs{X}{donkey(X)\\green(X)}
```

To display a sentence above the DRS, use **\sdrs**, which has one extra argument for this purpose, as in:

```
\begin{flushleft}
  \sdrs{A donkey is green.}
     {X}
     {donkey(X)\\green(X)}
  \end{flushleft}
```

which prints as:

A donkey is green.

```
X
donkey(X)
green(X)
```

Some DRS connectives are also provided (normally for forming DRSes that are to be nested within other DRSes). The macro \negdrs forms a DRS preceded by a negation symbol, so

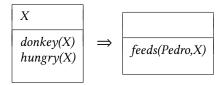
```
\negdrs{X}
{
          donkey(X)\\
          green(X)
}
```

comes out as

```
\begin{array}{c|c} X \\ \hline \neg & donkey(X) \\ green(X) \end{array}
```

Finally, \iftrs forms a pair of drses joined by a big arrow, like this:

```
\ifdrs{X}
{
    donkey(X)\\
    hungry(X)
}
{-}
{feeds(Pedro,X)}
```



If you have an "if"-structure appearing among ordinary predicates inside a DRS, you may prefer to use **\alifdrs**, which is just like **\ifdrs** but shifted slightly to the left for better alignment:

$$\begin{array}{c|c} X \\ & donkey(X) \\ & hungry(X) \end{array} \Rightarrow \begin{array}{c} \\ & feeds(Pedro,X) \end{array}$$

Note that for more extended DRS representations, dedicated packages are meanwhile available, most notably the drs [2] and the sdrt [3] package. Both packages actually draw on covington, add some additional features and, in some cases, tweak the layout to (what strikes those package authors) the better. If the rather basic DRS macros provided by covington do not suit you, please check if one of those packages does.

Note, though, that while sdrt introduces new (capitalized) macro naming which lets the package peacefully coexist with covington, drs simply re-uses covington's macro names, which makes the two packages incompatible. In order to fix this, covington checks whether the DRS macros are already defined when it is loaded; if so, it does not define its own ones. So if you want to use the DRS macros of the drs package together with covington's non-DRS features, you can do so, provided that drs is loaded *before* covington. In that case, covington's own DRS macros are disabled.

8 Exercises

The **exercise** environment (alias **covexercise**) generates an exercise numbered according to chapter, section, and subsection (suitable for use in a large book; in this example, the subsection number is going to come out as o). Here is an example:

Exercise 8.0.1 (Project) Prove that the above assertion is true.

This was coded as

```
\begin{exercise}[Project]
Prove that the above assertion is true.
\end{exercise}
```

The argument ([Project] in the example) is optional.

Note that, as of version 1.1, covington checks if there is already an **exercise** environment defined (e. g., by the class). If so, covington does not define its own one. However, there is always the alias environment **covexercise** which can be used in order to produce covington's exercise. If you use the package option **force**, covington will override existing **exercise** environments. In any case, the package will issue a warning if **exercise** is already defined.

9 Reference Lists

To type a simple LSA-style hanging-indented reference list, you can use the **reflist** environment. (*Note*: **reflist** is not integrated with BibTEX in any way. ¹⁵) For example,

```
\begin{reflist}
Barton, G. Edward; Berwick, Robert C.; and Ristad, Eric Sven. 1987.
Computational complexity and natural language. Cambridge,
Massachusetts: MIT Press.

Chomsky, Noam. 1965. Aspects of the theory of syntax. Cambridge,
```

¹⁵For BibTEX, there are several options: the LSA style, as used in the journal *Language*, can be obtained by means of the style files <code>lsalike.bst</code> (http://www.icsi.berkeley.edu/ftp/pub/speech/jurafsky/lsalike.bst) or language.bst (http://ron.artstein.org/resources/language.bst); the latter uses natbib. The so-called *Unified Style Sheet for Linguistics*, as proposed by the CELXJ (*Committee of Editors of Linguistics Journals*), which slightly differs from the LSA style, is followed by the style file unified.bst (available at http://celxj.org/downloads/unified.bst). A biblatex style file for the unified style is available at https://github.com/semprag/biblatex-sp-unified or on CTAN as part of the univie-ling bundle.

```
Massachusetts: MIT Press.

Covington, Michael. 1993. Natural language processing for Prolog programmers. Englewood Cliffs, New Jersey: Prentice-Hall. \end{reflist}
```

prints as:

Barton, G. Edward; Berwick, Robert C.; and Ristad, Eric Sven. 1987. Computational complexity and natural language. Cambridge, Massachusetts: MIT Press.

Chomsky, Noam. 1965. Aspects of the theory of syntax. Cambridge, Massachusetts: MIT Press.

Covington, Michael A. 1993. Natural language processing for Prolog programmers. Englewood Cliffs, New Jersey: Prentice-Hall.

By default, the references have a hanging indentation of 3 em. This can be globally changed by altering the length \reflistindent. Doing \setlength\reflistindent{1.5em}, for instance, will shorten the indentation by half. Likewise, the length \reflistitemsep (6 pt by default) and \reflistparsep (ca. 4 pt by default) can be adjusted to alter the vertical separation (\itemsep and \parsep, for that matter) of reference entries.

Notice that within the reference list, "French spacing" is in effect — that is, spaces after periods are no wider than normal spaces. Thus you do not have to do anything special to avoid excessive space after people's initials.

10 Semantic markup

The macro \sentence displays an italicized sentence (it is a combination of flushleft and itshape). If you type

```
\sentence{This is a sentence.}
```

you get:

This is a sentence.

The font shape can be modified by redefining the following macro:

```
\newcommand*\sentencefs{\itshape}
```

The following macros provide further markup options common in linguistics:

- \lexp{word} is used to mark word forms (italic by default, as in word)
- \lcon{concept} is used to mark concepts (small caps by default, as in CONCEPT)
- \lmean{meaning} is used to mark meaning (single quotes by default, as in 'meaning')

Note that for \lambdamean, covington checks at document begin whether the csquotes [5] package is loaded. If so, it uses its language-sensitive \enquote* macro for quoting. If not, a fallback quotation (using English single quotation marks) is used. The usage of csquotes is highly recommended!

Here are the definitions of the macros. They can be redefined via \renewcommand:

```
\providecommand*\lexp[1]{\textit{#1}}
\providecommand*\lcon[1]{\textsc{#1}}
\providecommand*\lmean[1]{\covenquote{#1}}
```

11 Big curly brackets (disjunctions)

Last of all, the two-argument macro **\either** expresses alternatives within a sentence or PS-rule:

the
$$\left\{\begin{array}{l} big \\ large \end{array}\right\} \ dog = the \ \left\{\begin{array}{l} big \\ large \end{array}\right\} \ dog$$

$$\label{eq:psrA} $$ \operatorname{A}_{B^-\in C}(D)-E$ = $A\to B \ \left\{ \begin{array}{c} C\\D \end{array} \right\} \ E$$

That's all there is for now. Suggestions for improving covington are welcome, and bug reports are actively solicited (via https://github.com/jspitz/covington). Please note, however, that this is free software, and the authors make no commitment to do any further work on it.

12 Release history

2.10 (forthcoming)

- Use LaTeX 2ε 's own keyval mechanism rather than xkeyval.
- Add way to customize subexample number format (see sec. 3.5.2).
- Introduce new package choice-option fnexamplecounter that supersedes the two boolean, mutually exclusive options ownfncounter and ownfncounter* (which are still supported for backwards compatibility reasons).
- New example options: fs, fsno, fspreamble, fspostamble, leftmargin, addnumbersep, addsubnumbersep, numberformat, subnumberformat, fnnumberformat (see sec. 3.2).
- New gloss options: fspreamble, fspostamble, fstl, and enquotetl for full customization of glosses via options (see sec. 4).
- Documentation improvements.

2.9 (2023 May 26)

- Add postamble and postamble* options to example and subexamples environment (sec. 3.3 and 3.4).
- Add \expreamble, \subexpreamble, \expostamble and \subexpostamble macros (sec. 3.3 and 3.4).
- Some documentation fixes.

2.8 (2022 August 30)

- Add ownfncounter and ownfncounter* options to allow for separate counting of examples in footnotes. The starred option resets the counter at each footnote. See sec. 1.
- Add preamble option to example environment. See sec. 2.

2.7 (2021 September 1)

- Add **postamble** gloss macro option for arbitrary text that is appended to the free translation line (after closing quotation marks). See sec. 4.1.
- Add \glosslinepostamble command to markup this text. See sec. 4.3.

2.6 (2021 May 19)

• New length \exampleind to adjust (increase/decrease) the indentation (left margin) of examples. See sec. 3.2 for details.

2.5 (2021 March 21)

• Fix metrics of stacked diacritics with XeTeX/LuaTeX.

2.4 (2020 January 2)

• Fix definition of covexercise theorem when no subsection counter is defined.

2.3 (2019 June 21)

- Add preamble option to subexamples environment. See sec. 3.4.
- · Allow to use covington together with the drs package.
- · Documentation fixes and restructuring.

2.2 (2019 June 4)

- Add new option **owncounter** that makes covington use an own counter for examples (rather than the equation counter).
- Add starred **\exampleno*** command that outputs the current example number value without stepping it. See sec. 3.1.
- Add macros \covexamplefs and \covexamplenofs for global setting of example text markup. See sec. 3.5.3.

2.1 (2019 May 12)

- Add new option noglossbreaks that tries to prevent page breaks within glosses.
- Add \glosspreamble command and preamble gloss macro option for arbitrary text preceding glosses.

2.0 (2018 December 10)

- Add new gloss macros (\digloss and \trigloss) for a more convenient, flexible and robust gloss insertion. See sec. 4.1.
- Add \glot command for customizable gloss translation line, together with customization possibilities. See sec. 4.2.
- Add possibility to customize \sentence font setting. See sec. 10.
- Add \lexp, \lcon and \lmean markup macros. See sec. 10.

1.8 (2018 December 7)

- Fix font markup of second gloss line (do not force rm).
- Add possibility to customize gloss line font setting. See sec. 3.5.3.
- Add possibility to customize example number display. See sec. 3.5.2.

1.7 (2018 September 8)

- Fix alignment in subexamples.
- Improve manual.

1.6 (2018 September 7)

- Introduce new environment subexamples (see sec. 3.4).
- Introduce new command \pxref (see sec. 3.6).

1.5 (2018 August 24)

 Introduce new option keeplayout which allows to opt-out the layout presettings covington does (\raggedbottom, \textfloatsep).

1.4 (2017 May 23)

- Introduce a new macro **\twodias** that supersedes the rather odd **\twoacc** (which is kept for backwards compatibility). See sec. 2 for details.
- Introduce macro **\SetDiaOffset** for more convenient setting of vertical distance in stacked diacritics. See sec. 2 for details.
- Large 2.09 is no longer officially supported (it might continue to work, but is not tested).

1.3 (2017 April 5)

- Gloss variants \xgll and \xgll that work inside macros (such as footnotes) but require explicit gloss line end markers (\xgle). See sec. 4 for details.
- New lengths \reflistindent, \reflistparsep and \reflistitemsep to globally
 adjust the indentation or vertical space, respectively, of reflist items. See sec. 9
 for details.

1.2 (2016 August 26)

- New length \examplenumbersep to adjust (increase) the horizontal space between example number and example text. See sec. 3.2 for details.
- Add some more info about bibliography generation.

1.1a (2016 July 7)

• Fix encoding problem in documentation and some typos. No change in functionality.

1.1 (2016 July 6)

- The package now uses NFSS font commands if available (fallback for Lage 2.09 is still provided).
- Work around clash with classes/packages that define their own example and examples environments (most notably the beamer class) as well as execise environments. The covington package no longer blindly attempts to define these environments. By default, it does not define them if they are already defined (covington's own environments, however, are still available via aliases). By means of a new package option, a redefinition can also be forced. See sec. 3.2 and 3.3 for details.

- New length \twoaccsep allows for the adjustment of the distance between stacked accents (see sec. 2).
- · Update manual.
- New maintainer: J. Spitzmüller.
- License has been changed to LPPL (in agreement with M. Covington)
- Introduce version numbers. Arbitrarily, we start with 1.1.

2014 May 16

- Patches by Robin Fairbairns:
 - Setting of \textfloatsep uses \setlength rather than \renewcommand
 - Style file converted to un*x line endings

2001 March 27

- It is no longer necessary to type \it to get proper italic type in feature structures.
- Instructions have been rewritten with LaTeX 2ε users in mind.

Older versions

- Multiple accents on a single letter (e. g., \hat{a}) are supported.
- This package is now called covington (with the o) and is compatible with \LaTeX 2 $_{\mathcal{E}}$ and NFSS as well as \LaTeX 2.09.
- The vertical placement of labeled feature structures has been changed so that the category labels line up regardless of the size of the structures.

References

- [1] Bickel, Balthasar, Bernard Comrie, and Martin Haspelmath: *The Leipzig glossing rules: Conventions for interlinear morpheme by morpheme glosses.* Revised version of February 2008. Department of Linguistics, Max Plank Institute for Evolutionary Anthropology. http://www.eva.mpg.de/lingua/resources/glossing-rules.php.
- [2] Dimitriadis, Alexis: *drs Typeset Discourse Representation Structures (DRS)*. June 10, 2010. https://ctan.org/pkg/drs.
- [3] Isambert, Paul: sdrt Macros for Segmented Discourse Representation Theory. May 13, 2007. https://ctan.org/pkg/sdrt.
- [4] Kamp, Hans: A Theory of Truth and Semantic Representation. In Jeroen A. G. Groenendijk, Theo M. V. Janssen, and Martin J. B. Stokhof (eds.): Formal Methods in the Study of Language. Amsterdam: Mathematics Center, 1981, 277–322.

- [5] Lehman, Philipp and Joseph Wright: csquotes: Context sensitive quotation facilities. April 4, 2018. https://www.ctan.org/pkg/csquotes.
- [6] Pakin, Scott: The Comprehensive LTEX Symbol List. November 30, 2015. https://www.ctan.org/pkg/comprehensive.
- [7] Weber, Nathalie: leipzig: Typeset and index linguistic gloss abbreviations. June 16, 2017. https://ctan.org/pkg/leipzig.