

The csquotes package

Context sensitive quotation facilities

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Version 3.1
August 29, 2005

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1 Introduction

This document is a systematic reference manual for the csquotes package. It is supplemented by a hands-on tutorial including practical examples.¹

1.1 About

This package provides advanced facilities for inline and display quotations. It is designed for a wide range of tasks ranging from the most simple applications to the more complex demands of formal quotations. The facilities include commands, environments, and user-definable ‘smart quotes’ which dynamically adjust to their context. Quotation marks are switched automatically if quotations are nested and they can be adjusted to the current language. There are additional facilities designed to cope with the more specific demands of academic writing, especially in the humanities and the social sciences. All quote styles as well as the optional active quotes are freely configurable.

1.2 License

This package is copyright © 2003–2005 Philipp Lehman and author-maintained. Permission is granted to copy, distribute and/or modify this software under the terms of the LaTeX Project Public License, version 1.3.²

1.3 Contributions

The multilingual support of this package depends on user contributions. Feel free to contact me if you want to contribute a quote style for your native language.

¹ <http://www.ctan.org/tex-archive/macros/latex/contrib/csquotes/tutorial.tex>

² <http://www.ctan.org/tex-archive/macros/latex/base/lppl.txt>

Option key	Possible values
strict	<i>none</i> , true, false
babel	<i>none</i> , true, false
style	<i>quote style or alias</i>
danish	quotes, guillemets
english	american, british, oldstyle
french	quotes, guillemets, guillemets*, oldstyle, imprimerie
german	quotes, guillemets, swiss
italian	quotes, guillemets
norwegian	guillemets, quotes
swedish	quotes, guillemets

Table 1: Package options defined by default

Refer to section 7.1 for an overview of the components a quote style is composed of. Also see table 6 for a list of commands commonly used in the definition of quote styles. Please use these commands when contributing a quote style.

1.4 Acknowledgments

I am indebted to Donald Arseneau and Mark Wooding for very valuable hints. Additional thanks go to Robert Schlicht for testing.

2 Package options

All package options are based on a key/value syntax. Table 1 indicates the default option keys and their possible values. Additional options may be defined in the configuration file. See section 7.3 for details.

2.1 The strict option

This option turns all package warnings into error messages. If `csquotes` encounters a problem that is not fatal, it will normally issue a warning and attempt to continue. When finalizing a document, however, you might want to ensure that no problem will go unnoticed. Instead of the verbose form `strict=true` you may also use the short form `strict`.

2.2 The babel option

This option enables multilingual support. If enabled, the style of all quotation marks will be adapted to the document language as chosen by way of the `babel` package. Multilingual support is not enabled by default. Instead of the verbose form `babel=true` you may also use the short form `babel`. Multilingual support may also be enabled later on, see section 3.7 for details.

2.3 The style option

This options selects a fixed quote style. The selected style will be used throughout the entire document unless it is changed manually; see section 3.7 for details. The option will implicitly disable multilingual support if it has been enabled. Please refer to tables 2 and 3 for a list of available quote styles and aliases. See sections 7.1, 7.2, and 7.4 for instructions on adding or modifying quote styles.

2.4 The language options

Use the language options listed in table 1 to choose a style variant if there is more than one. The first variant in the list is the default for the respective style. In the following example, the quote style would generally be adapted to the current language using the default style for that language. In the English parts of the text, the quotation marks would follow the British standard. The German parts would use guillemets instead of curly quotes:

```
\usepackage[english,ngerman]{babel}
\usepackage[babel,english=british,german=guillemets]{csquotes}
```

Note that babel's language name is `ngerman` here whereas this package uses `german`. When selecting a quote style automatically, this package will essentially normalize the language names first, using a list of aliases which map languages to quote styles. See section 7.4 and table 3 for details. See section 8.6 for some additional notes concerning the predefined styles.

3 Basic interface

This package supports two ways to tag quotations: built-in commands and active characters defined in the document preamble or the configuration file. This section will introduce the basic commands, active quotes are discussed in section 4. When working with automated citations, you might also want to learn about the integrated quotation facilities presented in section 5.

3.1 Quoting regular text

The most basic command will simply enclose its argument in quotation marks:

```
\enquote {<text>}
\enquote*{<text>}
```

Like all quotation facilities, this command is context sensitive. Depending on the nesting level, it will toggle between outer and inner quotation marks with plain and nested quotations. The starred version of this command skips directly to the inner level. If multilingual support is enabled, the style of all quotation marks will be adapted to the current language.

3.2 Quoting text in a foreign language

To facilitate typesetting quotations in a foreign language, there are two commands which combine `\enquote` with babel's language switches:

```
\foreignquote {<language>}{<text>}
\foreignquote*{<language>}{<text>}
```

This command combines `\enquote` with `\foreignlanguage`. It switches hyphenation patterns and enables the extra definitions provided by the babel package for the respective language, such as shorthands and language specific adjustments. The quotation marks will match the language of the quoted piece of text.

```
\hyphenquote {⟨language⟩}{⟨text⟩}
\hyphenquote*{⟨language⟩}{⟨text⟩}
```

This command combines `\enquote` with the `hyphenrules` environment, that is, it merely switches hyphenation patterns. The quotation marks will match the language of the text surrounding the quotation.

3.3 Formal quoting of regular text

Formal quotations are always accompanied by a citation indicating the source of the quoted text. The following command is an extended version of `\enquote` which encloses the quoted piece of text in quotation marks and adds a citation after the quotation:

```
\textquote [⟨citation⟩][⟨punctuation⟩]{⟨text⟩}
\textquote*[⟨citation⟩][⟨punctuation⟩]{⟨text⟩}
```

The argument `⟨text⟩` may be any arbitrary piece of text to be enclosed in quotation marks. The optional arguments `⟨citation⟩` and `⟨punctuation⟩` specify the citation and any terminal punctuation which is not part of `⟨text⟩`. See section 7.7 on how to change the way these arguments are handled. The starred version of this command skips directly to the inner quotation level. Here are some usage examples:

```
\textquote{...}
\textquote[][?]{...}
\textquote[Doe 1990, 67]{...}
\textquote[{⟨cite[67]{doe90}⟩}]{...}
```

Note the use of the optional arguments in the examples above. As shown in the second example, `⟨citation⟩` has to be given whenever `⟨punctuation⟩` is used, even if `⟨citation⟩` is empty. Also keep in mind that an optional argument containing square brackets must be wrapped in an additional pair of curly braces as shown in the last example. When working with automated citations, you might also want to learn about the integrated quotation facilities presented in section 5.

3.4 Formal quoting of text in a foreign language

There are two additional commands which combine `\textquote` with `babel`'s language switches:

```
\foreigntextquote {⟨language⟩}[⟨citation⟩][⟨punctuation⟩]{⟨text⟩}
\foreigntextquote*{⟨language⟩}[⟨citation⟩][⟨punctuation⟩]{⟨text⟩}
```

This command combines `\textquote` with `\foreignlanguage`. Apart from the language, the arguments are handled as with `\textquote`.

```
\hyphentextquote {⟨language⟩}[⟨citation⟩][⟨punctuation⟩]{⟨text⟩}
\hyphentextquote*{⟨language⟩}[⟨citation⟩][⟨punctuation⟩]{⟨text⟩}
```

This command combines `\textquote` with the `hyphenrules` environment. Apart from the language, the arguments are handled as with `\textquote`.

3.5 Block quoting of regular text

A common requirement in academic writing demands that quotations be embedded in the text if they are short but set off as an indented paragraph if they are longer than a certain number of lines. In the latter case no quotation marks are inserted. The following command deals with this requirement automatically:

```
\blockquote[⟨citation⟩][⟨punctuation⟩]{⟨text⟩}
```

This command determines the number of lines required to typeset *⟨text⟩*. If the quotation is short, `\blockquote` will behave the same as `\textquote`. If the quotation is longer than a given number of lines or if it spans more than one paragraph, it will be wrapped in a block quotation environment instead. Quotations in footnotes, parboxes, minipages, and floats are always set inline. By default, the threshold is three lines and the environment used for quotations exceeding this threshold is the `quote` environment. See section 7.6 on how to change these values. The optional arguments *⟨citation⟩* and *⟨punctuation⟩* specify the citation and any terminal punctuation which is not part of *⟨text⟩*. See section 7.7 on how to change the way these arguments are handled.

3.6 Block quoting of text in a foreign language

There are two additional commands which combine `\blockquote` with babel's language switches:

```
\foreignblockquote{⟨language⟩}[⟨citation⟩][⟨punctuation⟩]{⟨text⟩}
```

This command behaves the same as `\foreignquote` if the quotation is short. If it exceeds the threshold or spans several paragraphs, it will be wrapped in an `otherlanguage*` environment which is in turn wrapped in a block quotation environment. Apart from the language, the arguments are handled as with `\blockquote`. There is a similar replacement for `\hyphenquote`:

```
\hyphenblockquote{⟨language⟩}[⟨citation⟩][⟨punctuation⟩]{⟨text⟩}
```

This command works like `\hyphenquote` if the quotation is short. If it exceeds the threshold or spans several paragraphs, it will be wrapped in an `hyphenrules` environment which is in turn wrapped in a block quotation environment. Apart from the language, the arguments are handled as with `\blockquote`.

3.7 Selecting quote styles

Quote styles may be selected manually at any point in the document body by way of the following command:

```
\setquotestyle[⟨variant⟩]{⟨style⟩}  
\setquotestyle{⟨alias⟩}  
\setquotestyle*
```

The regular form of this command selects a quote style and disables multilingual support. Its mandatory argument may be a quote style or an alias. If it is a quote style, the optional argument indicates the style variant. The starred

version, which takes no arguments, enables multilingual support instead. This command is related to the package options `babel` and `style`. `\setquotestyle` provides the same functions locally in the document body. Please refer to tables 2 and 3 for a list of available quote styles, style variants, and language aliases.

4 Active quotes

This package also supports active characters corresponding to some of the commands discussed in section 3. An active character is a single character functioning like a control sequence. There are several commands which make the definition of such active quotes a trivial task. These commands may be used in the document preamble or in the configuration file.

4.1 Quoting regular text

`\MakeOuterQuote` and `\MakeInnerQuote` define active characters which print outer and inner quotation marks respectively. Both take one mandatory argument, a single character serving as both opening and closing quotation mark:

```
\MakeOuterQuote{⟨character⟩}
\MakeInnerQuote{⟨character⟩}
```

The following command defines active characters which toggle between outer and inner quotation marks automatically:

```
\MakeAutoQuote{⟨character 1⟩}{⟨character 2⟩}
```

`⟨character 1⟩` serves as the opening mark, `⟨character 2⟩` as the closing one. These characters must be distinct. In general, an active quote may be any single character with a category code in the range 7–8 and 12–13. The arguments are automatically checked for validity. Active characters defined with `\MakeAutoQuote` work like `\enquote`. Those defined with `\MakeOuterQuote` and `\MakeInnerQuote` cover only a part of this functionality. The former correspond to the outer level of `\enquote` whereas the latter correspond to the starred version.

Like the commands presented in section 3, the active quotes are fully-fledged markup elements. They will verify the nesting level of all quotations and issue an error message if quotations are nested in an invalid way. If multilingual support is enabled, the style of all quotation marks will be adapted to the current language. See the tutorial for usage examples.

4.2 Quoting text in a foreign language

There are two additional commands which combine `\MakeAutoQuote` with `babel`'s language switches:

```
\MakeForeignQuote{⟨language⟩}{⟨character 1⟩}{⟨character 2⟩}
\MakeHyphenQuote {⟨language⟩}{⟨character 1⟩}{⟨character 2⟩}
```

The active quotes defined with `\MakeForeignQuote` are similar in function to `\foreignquote` whereas the ones defined with `\MakeHyphenQuote` work like `\hyphenquote`.

4.3 Block quoting of regular text

`\MakeBlockQuote` defines active quotes which will set quotations inline or as a separate paragraph, depending on their length. This command takes three mandatory arguments which must be distinct:

```
\MakeBlockQuote{⟨character 1⟩}{⟨delimiter⟩}{⟨character 2⟩}
```

⟨character 1⟩ may be any single character with a category code in the range 7–8 and 12–13. ⟨delimiter⟩ and ⟨character 2⟩ may also be characters with category code 3 or 4. The arguments are automatically checked for validity. Active quotes defined with `\MakeBlockQuote` behave essentially the same as `\blockquote`, but the handling of the citation is slightly different. ⟨character 1⟩ will serve as the opening mark, ⟨character 2⟩ as the closing one. The character indicated by the middle argument ⟨delimiter⟩ will serve as a delimiter separating the quoted text from the citation which is given last as the active quotes are used:

```
\MakeBlockQuote{<}{|}{>}
```

```
...
```

```
<text|citation>
```

If the delimiter is omitted, the entire text between the opening and the closing mark will be treated as quotation text. See the tutorial for more usage examples.

4.4 Block quoting of text in a foreign language

The following commands combine the features of `\MakeBlockQuote` with babel's language switches:

```
\MakeForeignBlockQuote{⟨language⟩}{⟨character 1⟩}{⟨delimiter⟩}{⟨character 2⟩}
```

```
\MakeHyphenBlockQuote {⟨language⟩}{⟨character 1⟩}{⟨delimiter⟩}{⟨character 2⟩}
```

The active quotes defined with `\MakeForeignBlockQuote` behave essentially the same as `\foreignblockquote`. Those defined with `\MakeHyphenBlockQuote` work like `\hyphenblockquote`. The behavior of the delimiter character is similar to `\MakeBlockQuote`.

4.5 Restoring active characters

Using the following commands, it is possible to disable and reenab all active quotes:

```
\DisableQuotes
```

```
\RestoreQuotes
```

`\DisableQuotes` will disable the active quotes by restoring the original category codes and definitions of all characters serving as active quotes. The second command will do the opposite: `\RestoreQuotes` restores the active quotes in case they were disabled or overwritten. The scope of both commands is local and both are available in the document body only since the setup of all active quotes is deferred until the beginning of the document body.

5 Integrated interface

The commands presented in this section are extended versions of some of those discussed in section 3. They differ from their counterparts in that they integrate automated citations into their syntax. Instead of adding `\cite` manually, you pass the citation arguments to the respective quotation command. See section 7.6 on how to use a command other than `\cite` to handle the citations.

5.1 Formal quoting of regular text

The most basic integrated command is an extended version of `\textquote`:

```
\textcquote [<pre-note>][<post-note>]{<key>}[<punctuation>]{<text>}  
\textcquote* [<pre-note>][<post-note>]{<key>}[<punctuation>]{<text>}
```

The argument *<text>* may be any arbitrary piece of text. The optional argument *<punctuation>* specifies any terminal punctuation which is not part of *<text>*. See section 7.7 on how to change the way this argument is handled. The starred version of this command skips directly to the inner quotation level.

The remaining arguments are handed over to `\cite`. Note that `\cite` merely supports one optional argument by default. *<pre-note>* is only available in conjunction with the `natbib` and `jurabib` packages. How these arguments are ultimately interpreted is at the discretion of the `\cite` command. With the `natbib` package, *<pre-note>* is in fact the citation pre-note, usually a notice such as ‘see’. With `jurabib`, this argument has a different function by default. The argument *<post-note>*, which is always available, indicates the citation post-note. This is usually a page number. *<key>* is the citation key. See sections 7.6 and 7.7 on how to customize the citation. Also see the tutorial for usage examples.

5.2 Formal quoting of text in a foreign language

There are two additional commands which combine `\textcquote` with `babel`’s language switches:

```
\foreigntextcquote {<language>}  
  [<pre-note>][<post-note>]{<key>}[<punctuation>]{<text>}  
\foreigntextcquote*{<language>}  
  [<pre-note>][<post-note>]{<key>}[<punctuation>]{<text>}
```

This command combines `\textcquote` with `\foreignlanguage`. The handling of the arguments is similar to `\textcquote`.

```
\hyphentextcquote {<language>}  
  [<pre-note>][<post-note>]{<key>}[<punctuation>]{<text>}  
\hyphentextcquote*{<language>}  
  [<pre-note>][<post-note>]{<key>}[<punctuation>]{<text>}
```

This command combines `\textcquote` with the `hyphenrules` environment. The handling of the arguments is similar to `\textcquote`.

5.3 Block quoting of regular text

Block quotations may be combined with automated citations as well. The core command of the integrated block quotation facilities is an extended version of `\blockquote`:

```
\blockquote[⟨pre-note⟩][⟨post-note⟩]{⟨key⟩}[⟨punctuation⟩]{⟨text⟩}
```

The difference between `\blockccquote` and `\blockquote` is that there are three citation arguments instead of one. The handling of these citation arguments is similar to `\textcquote`; see section 5.1 for details. Also see sections 7.6 and 7.7 on how to customize block quotations.

5.4 Block quoting of text in a foreign language

There are two additional commands which combine `\blockccquote` with babel's language switches:

```
\foreignblockccquote{⟨language⟩}  
  [⟨pre-note⟩][⟨post-note⟩]{⟨key⟩}[⟨punctuation⟩]{⟨text⟩}
```

This command combines `\blockccquote` with `\foreignlanguage`. Long quotations will be wrapped in an `otherlanguage*` environment. The handling of the citation arguments is similar to `\textcquote`.

```
\hyphenblockccquote{⟨language⟩}  
  [⟨pre-note⟩][⟨post-note⟩]{⟨key⟩}[⟨punctuation⟩]{⟨text⟩}
```

This command combines `\blockccquote` with the `hyphenrules` environment. The handling of the citation arguments is similar to `\textcquote`.

6 Display environments

The environments introduced in this section will typeset quotations as a separate paragraph which looks exactly like a long quotation set by means of the block quotation facilities. Use them for quotations which are to be presented as a separate paragraph regardless of their length.

Note that these environments are not replacements for the standard quote environment in the strict sense. They function as an additional layer on top of the latter, just like the block quotation facilities. The advantage of using these environments instead of resorting to the standard quote environment is that they are configurable, support citations, and will always be in sync with the block quotation facilities with respect to the configuration options discussed in sections 7.6 and 7.7.

6.1 Basic display environments

All display environments generally take several arguments which are appended to the `\begin` section of the environment as usual:

```
\begin{displayquote}[⟨citation⟩][⟨punctuation⟩]  
\end{displayquote}
```

This environment takes two optional arguments, $\langle citation \rangle$ and $\langle punctuation \rangle$, which specify the citation and any terminal punctuation which is not part of the quoted text. The citation will be inserted at the end of the environment. Trailing horizontal white space (glue) at the end of the environment is removed before the citation is inserted. See sections 7.6 and 7.7 on how to customize the text block, the citation, and the punctuation. There are two additional environments which combine `displayquote` with babel’s language switches:

```
\begin{foreigndisplayquote}{\langle language \rangle}[\langle citation \rangle][\langle punctuation \rangle]
\end{foreigndisplayquote}
```

This environment combines `displayquote` with `otherlanguage*`. Apart from the language, the arguments are handled as with `displayquote`.

```
\begin{hyphendisplayquote}{\langle language \rangle}[\langle citation \rangle][\langle punctuation \rangle]
\end{hyphendisplayquote}
```

This environment combines `displayquote` with `hyphenrules`. Apart from the language, the arguments are handled as with `displayquote`.

6.2 Integrated display environments

The following environment is an extended version of `displayquote` with automated citations:

```
\begin{displaycquote}[\langle pre-note \rangle][\langle post-note \rangle]{\langle key \rangle}[\langle punctuation \rangle]
\end{displaycquote}
```

The difference between `displaycquote` and `displayquote` is that there are three citation arguments instead of one. The placement of the citation is similar to `displayquote`. The citation arguments are handled as with `\textcquote`; see section 5.1 for details. Also see sections 7.6 and 7.7 on how to customize the text block and the citation. There are two additional environments which combine `displaycquote` with babel’s language switches:

```
\begin{foreigndisplaycquote}{\langle language \rangle}
[\langle pre-note \rangle][\langle post-note \rangle]{\langle key \rangle}[\langle punctuation \rangle]
\end{foreigndisplaycquote}
```

This environment combines `displaycquote` with `otherlanguage*`. Apart from the language, the arguments are handled as with `displaycquote`.

```
\begin{hyphendisplaycquote}{\langle language \rangle}
[\langle pre-note \rangle][\langle post-note \rangle]{\langle key \rangle}[\langle punctuation \rangle]
\end{hyphendisplaycquote}
```

This environment combines `displaycquote` with `hyphenrules`. Apart from the language, the arguments are handled as with `displaycquote`.

7 Configuration

If available, csquotes will load a configuration file called `csquotes.cfg`. Use this file to define new quote styles and aliases or redefine existing ones.

7.1 Defining quote styles

The following command defines additional quote styles and variants or redefines existing ones:

```
\DeclareQuoteStyle[⟨variant⟩]{⟨style⟩}
  [⟨outer initialization⟩][⟨inner initialization⟩]
  {⟨opening outer mark⟩}[⟨middle outer mark⟩]{⟨closing outer mark⟩}[⟨kerning⟩]
  {⟨opening inner mark⟩}[⟨middle inner mark⟩]{⟨closing inner mark⟩}
```

This command may be used in the configuration file or in the document preamble. The term ‘outer’ refers to the first quotation level, ‘inner’ means quotations within another quotation. A ‘middle mark’ is a quotation mark inserted at the beginning of every paragraph within a quotation spanning multiple paragraphs. In most cases, the arguments defining the quotation marks will simply contain one of the commands listed in table 6. If both an outer and an inner quotation begin or end simultaneously, the kerning specified by the value `⟨kerning⟩` will be inserted between the adjoining quotation marks. While this value can be given in any unit known to TeX, it is advisable to use the relative, font-dependent unit ‘em’ instead of absolute units such as points, inches, or millimeters. Note that `⟨kerning⟩` is used as a fallback value only. If the font provides kerning data for the respective pair of quotation marks the font’s value will always be used.

`⟨outer initialization⟩` and `⟨inner initialization⟩` are all-purpose hooks initializing the respective quote style. Selecting a quote style will make these hooks available to all quotation commands without expanding them. The expansion of `⟨outer initialization⟩` will take place immediately before the opening outer quote is inserted, but inside the group formed by the quotation. `⟨inner initialization⟩` will be expanded before the opening inner quote is inserted. It is advisable to avoid any global assignments in this context to prevent interference with other styles. Whenever `⟨inner initialization⟩` is used `⟨outer initialization⟩` has to be given as well, even if the argument is empty. Refer to table 2 for a list of all predefined quote styles and their variants. These are the backend styles only, see also table 3 for a list of language aliases. See section 7.4 for some examples as well as an illustration of how quote styles, aliases, and package options interact.

7.2 Defining quote aliases

The following command defines additional quote aliases or redefines existing ones:

```
\DeclareQuoteAlias[⟨variant⟩]{⟨style⟩}{⟨alias⟩}
\DeclareQuoteAlias{⟨first-level alias⟩}{⟨second-level alias⟩}
```

Quote style	Style variants
danish	quotes, guillemets
dutch	–
english	american, british, oldstyle
finnish	–
french	quotes, guillemets, guillemets*, oldstyle, imprimerie
german	quotes, guillemets, swiss
italian	quotes, guillemets
norwegian	guillemets, quotes
swedish	quotes, guillemets

Table 2: Quote styles and style variants defined by default

This command may be used in the configuration file or in the document preamble. The newly defined alias may point to a backend style or to another alias. Most language aliases refer directly to a backend style, but some point to an intermediate alias instead. If the alias is defined for the sake of the babel package, its name must be identical to the language name used by babel, i.e. the expansion of `\language`. See section 7.4 for an illustration of how quote styles, aliases, and package options interact. A list of all aliases defined by default is given in table 3.

7.3 Defining package options

The following command creates a new package option based on a key/value syntax. It takes one mandatory argument, the quote style name:

```
\DeclareQuoteOption{<style>}
```

When using the new package option, the base name of the quote style will serve as the key. The value of this key may be any style variant defined for the respective quote style. This package option will select a variant by defining an alias pointing to the desired backend style. This command is available in the configuration file only. See section 7.4 for an illustration of how quote styles, aliases, and package options interact.

7.4 Adding a new quote style

This section will give some comprehensive examples of how to define new quote styles. The examples presented here will only make use of the most basic components a quote style can be composed of. The main point is to illustrate the interaction of quote styles, variants, aliases, and package options. To get started, consider a simple house style which may be selected by way of the package option `style` or the command `\setquotestyle`:

```
\DeclareQuoteStyle{house}
  {\textquotedblleft}{\textquotedblright}
  {\textquoteleft}{\textquoteright}
```

Now suppose that we wanted to add a quote style for an imaginary language called Newspeak and that there were two quote styles commonly used in New-

Alias	Style/variant or alias
american	english/american
austrian	german/quotes
british	english/british
canadian	english/american
danish	danish/quotes
english	english/american
french	french/quotes
german	german/quotes
italian	italian/quotes
naustrian	austrian
ngerman	german
norsk	norwegian
norwegian	norwegian/guillemets
nynorsk	norwegian
swedish	swedish/quotes
swiss	german/swiss
UKenglish	british
USenglish	american

Table 3: Language aliases defined by default

speak, an official one and an unofficial one. In this case, we need two backend styles implemented as variants of the newspeak style:

```
\DeclareQuoteStyle[official]{newspeak}
  {\textquotedblleft}{\textquotedblright}
  {\textquoteleft}{\textquoteright}

\DeclareQuoteStyle[unofficial]{newspeak}
  {\textquotedblright}{\textquotedblleft}
  {\textquoteright}{\textquoteleft}
```

The official variant should be the default for this style. There is no need to copy the definition of the `official` variant to accomplish that. We simply define an alias labeled `newspeak` which points to the desired variant:

```
\DeclareQuoteAlias[official]{newspeak}{newspeak}
```

The reason why we are using variants and aliases instead of two independent styles will become clear in a moment. Suppose that the `babel` package offered support for `Newspeak`, but this language was known to `babel` as `otherspeak`:

```
\DeclareQuoteAlias{newspeak}{otherspeak}
```

This is an example of a second-level alias pointing to a first-level alias. If the current language is `otherspeak`, the above aliases will be expanded as follows:

`otherspeak` → `newspeak` → `newspeak/official`

We also define a new package option to choose a style variant:

```
\DeclareQuoteOption{newspeak}
```

This will add a new package option with a key called `newspeak`. The value of this option may be any variant of the `newspeak` style defined in the configuration file. In this example, there are two possible values: `official` and `unofficial`. To select the default or the alternative style for the entire document we use:

```
\usepackage[style=newspeak]{csquotes}  
\usepackage[style=newspeak,newspeak=unofficial]{csquotes}
```

To select the default or the alternative style with multilingual support we use:

```
\usepackage[babel]{csquotes}  
\usepackage[babel,newspeak=unofficial]{csquotes}
```

The base style must be implemented as an alias in this case since the `newspeak` option will select a variant by redefining and thus overwriting the `newspeak` alias. Since the `otherspeak` alias points to `newspeak` and not directly to any backend style, using the `newspeak` option will also have the desired effect if multilingual support is enabled.

Also note that there are two quote style names which have a special meaning: `default` and `fallback`. The former is an alias pointing to the default quote style used if the multilingual interface is not enabled. The package option `style` and the command `\setquotestyle` will redefine this alias. The latter is a backend style used as a fallback whenever the multilingual interface is enabled but there is no quote style for the current language. It will print bold question marks by default and may be redefined at your discretion.

7.5 Defining quotes for PDF strings

The following command specifies the characters used as quotation marks in PDF strings:

```
\DeclarePlainStyle  
  {\opening outer mark}{\closing outer mark}  
  {\opening inner mark}{\closing inner mark}
```

This command may be used in the configuration file or in the document preamble. By default, outer quotations get straight double quotes and inner quotations straight single quotes. See section 8.3 for additional hints concerning PDF strings.

7.6 Configuring block quotations, environments, and citations

The following commands change the default values used by various quotation facilities of this package:

```
\SetBlockThreshold{\integer}  
\SetBlockEnvironment{\environment}  
\SetCiteCommand{\command}
```

`\SetBlockThreshold` changes the number of lines the block quotation facilities will use as a threshold when deciding whether a quotation should be set inline or as a block quotation. The default is three lines. `\SetBlockEnvironment` spec-

Parameter	Command or environment															
	<code>\enquote</code>	<code>\foreignquote</code>	<code>\hyphenquote</code>	<code>\textquote</code>	<code>\foreigntextquote</code>	<code>\hyphentextquote</code>	<code>\textcquote</code>	<code>\foreigntextcquote</code>	<code>\hyphentextcquote</code>	<code>\blockquote</code>	<code>\foreignblockquote</code>	<code>\hyphenblockquote</code>	<code>\blockcquote</code>	<code>\foreignblockcquote</code>	<code>\hyphenblockcquote</code>	<code>\displayquote</code>
	<code>foreigndisplayquote</code>	<code>hyphendisplayquote</code>	<code>displaycquote</code>	<code>foreigndisplaycquote</code>	<code>hyphendisplaycquote</code>											
Threshold	–	–	–	–	–	–	–	–	–	•	•	•	•	•	•	–
Environment	–	–	–	–	–	–	–	–	–	•	•	•	•	•	•	•
Cite command	–	–	–	–	–	–	•	•	•	–	–	–	•	•	•	–

Table 4: Scope of configurable parameters

ifies the environment used for block and display quotations. It takes the name of an existing environment as its argument. The default is the `quote` environment provided by most document classes. If the `quote` environment is not defined when this package is loaded, a typical default definition will be provided automatically. The argument to `\SetCiteCommand` specifies a replacement for `\cite` which will be used by all integrated quotation facilities to handle citations. It must be a single command which takes one or two optional arguments followed by a mandatory one, the citation key. The default is `\cite`. The commands affected by these parameters are indicated in table 4.

7.7 Hooks for block quotations, environments, and citations

The behavior of several quotation facilities may also be customized at a lower level. All quotation facilities taking a `<citation>` argument will not insert it directly. They pass it to an auxiliary command called `\mkcitation` which may be redefined to format the citation. When doing so, keep in mind that it must take exactly one mandatory argument. `\mkcitation` will only be executed if there is a `<citation>`. The default behavior of this command is to separate the citation from the preceding text by an interword space and enclose it in parentheses.

The integrated quotation facilities have slightly different requirements since the `\cite` command may enclose the citation in parentheses or brackets. Therefore, they use `\mkccitation` instead of `\mkcitation`. The default behavior of this command is to separate the citation from the preceding text by an interword space. The default settings are equivalent to the following redefinitions:

```
\renewcommand*{\mkcitation}[1]{_{(#1)}  
\renewcommand*{\mkccitation}[1]{_{#1}}
```

As the block quotation facilities switch between inline and display quotations, changes to the terminal punctuation may be required. The punctuation is controlled by two hooks: `\mkmidblockpunct` is executed after the closing quotation mark, between the quotation and the citation. `\mkfinblockpunct` is executed after the citation. These hooks serve two purposes. They may be used to insert additional punctuation marks and they control the placement of the `<punctuation>` argument. Like the `<citation>` argument, `<punctuation>` is not inserted directly. It

Hook	Command or environment															
	<code>\enquote</code>	<code>\foreignquote</code>	<code>\hyphenquote</code>	<code>\textquote</code>	<code>\foreigntextquote</code>	<code>\hyphentextquote</code>	<code>\textcquote</code>	<code>\foreigntextcquote</code>	<code>\hyphentextcquote</code>	<code>\blockquote</code>	<code>\foreignblockquote</code>	<code>\hyphenblockquote</code>	<code>\blockcquote</code>	<code>\foreignblockcquote</code>	<code>\hyphenblockcquote</code>	<code>\displayquote</code>
	<code>foreigndisplayquote</code>	<code>hyphendisplayquote</code>	<code>displaycquote</code>	<code>foreigndisplaycquote</code>	<code>hyphendisplaycquote</code>											
<code>\mkcitation</code>	-	-	-	•	•	•	-	-	-	•	•	•	-	-	-	•
<code>\mkccitation</code>	-	-	-	-	-	-	•	•	•	-	-	-	•	•	•	-
<code>\mkmidtextpunct</code>	-	-	-	•	•	•	•	•	•	-	-	-	-	-	-	-
<code>\mkfintextpunct</code>	-	-	-	•	•	•	•	•	•	-	-	-	-	-	-	-
<code>\mkmidblockpunct</code>	-	-	-	-	-	-	-	-	-	•	•	•	•	•	•	-
<code>\mkfinblockpunct</code>	-	-	-	-	-	-	-	-	-	•	•	•	•	•	•	-
<code>\mkmidispunct</code>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•
<code>\mkfindispunct</code>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	•	•
<code>quotetext</code>	-	-	-	•	•	•	•	•	•	•	•	•	•	•	-	-
<code>quoteblock</code>	-	-	-	-	-	-	-	-	-	•	•	•	•	•	•	•

Table 5: Availability of auxiliary hooks

is passed to both `\mkmidblockpunct` and `\mkfinblockpunct`. When redefining these commands, keep in mind that both of them must take one mandatory argument, but only one of them should insert it. By default, the punctuation is inserted after the citation. This is equivalent to the following redefinitions:

```
\renewcommand*{\mkmidblockpunct}[1]{}
\renewcommand*{\mkfinblockpunct}[1]{#1}
```

The text quotation facilities take a *⟨punctuation⟩* argument as well. Its placement is controlled by `\mkmidtextpunct` and `\mkfintextpunct`. These commands work like their counterparts for block quotations. Their default behavior is equivalent to the following redefinitions:

```
\renewcommand*{\mkmidtextpunct}[1]{}
\renewcommand*{\mkfintextpunct}[1]{#1}
```

The commands `\mkmidispunct` and `\mkfindispunct` handle the placement of the *⟨punctuation⟩* argument passed to the display environments. Their default behavior is equivalent to the following redefinitions:

```
\renewcommand*{\mkmidispunct}[1]{}
\renewcommand*{\mkfindispunct}[1]{#1}
```

Apart from the environment specified with `\SetBlockEnvironment`, which envelops both the quoted text and the citation, the quoted text (excluding the citation) of all long quotations is enclosed in an environment called `quoteblock`. This environment does nothing by default but it may be redefined to format the quoted text. In a similar manner, the text block (excluding the quotation marks) of inline quotations is enclosed in an environment called `quotetext`.

Like `quoteblock`, this environment does nothing by default but it may be redefined if additional hooks are required to format the quoted text.

Table 5 gives an overview of the facilities affected by a redefinition of the above hooks. See the tutorial for usage examples. Also see section 7.8 for tests which may be useful when redefining the above hooks.

7.8 Additional tests for quotation hooks

The commands presented in this section increase the flexibility of the hooks discussed in section 7.7. For example, it may be desirable to adjust the punctuation or the format of the citation depending on the way the corresponding quotation is typeset. The following command will test whether the quotation is set inline or as a separate paragraph:

```
\ifblockquote{<true clause>}{<false clause>}
```

This command expands to `<true clause>` with block and display quotations, and to `<false clause>` otherwise. It may also be useful to know if the quotation ends with a punctuation mark, especially in the definition of the `\mk...punct` hooks. The following tests provide information about the terminal punctuation of quotations:

```
\ifquotepunct{<true clause>}{<false clause>}
```

```
\ifquoteterm{<true clause>}{<false clause>}
```

`\ifquotepunct` expands to `<true clause>` if the quotation ends with any punctuation mark, and to `<false clause>` otherwise. `\ifquoteterm` will only expand to `<true clause>` if the quotation ends with a punctuation mark terminating the last sentence (period, exclamation mark, or question mark). The following commands allow for more specific tests:

```
\ifquotecolon{<true clause>}{<false clause>}
```

```
\ifquotecomma{<true clause>}{<false clause>}
```

```
\ifquoteexclam{<true clause>}{<false clause>}
```

```
\ifquoteperiod{<true clause>}{<false clause>}
```

```
\ifquotequestion{<true clause>}{<false clause>}
```

```
\ifquotesemicolon{<true clause>}{<false clause>}
```

Note that all of the above tests are designed for use in the definition of the hooks discussed in section 7.7. They will not yield meaningful results when used anywhere else. There is also a stand-alone test which may be used anywhere in the document:

```
\ifstringblank{<string>}{<true clause>}{<false clause>}
```

This command expands to `<true clause>` if `<string>` is blank (empty or spaces), and to `<false clause>` otherwise. This is useful to test for an empty argument in the definition of the `\mk...punct` commands. Note that this test would be redundant in the definition of the citation hooks because they are only executed if there is a citation.

8 Hints and caveats

8.1 Invalid nesting and unbalanced active quotes

Every quotation forms a group which includes both the quoted piece of text and the quotation marks. This package tracks the nesting level of all quotations and thus allows for basic validation. If quotations are nested in an invalid way, it will issue an error message. Keep in mind that the active quotes are more than a convenient way to enter quotation marks. They are fully-fledged markup elements which imply grouping as well, hence they must always be balanced and must not interfere with other group boundaries. This package will ensure that an error is triggered if the quotes are unbalanced or nested in an invalid way. Note, however, that packages generally cannot catch low-level errors caused by grouping mistakes, nor do they have any control over the wording of generic error messages. When running under e-TeX, this package can generally catch more generic errors and issue a more instructive message instead.

8.2 Active quotes in math mode and verbatim contexts

As a matter of course, the commands provided by this package are only useful in text mode. If you inadvertently use them in math mode, they will issue an error message. Note that all active quotes retain their original function in math mode. It is perfectly possible to use characters like the greater-than symbol and even special characters such as the underscore as active quotes without interfering with math mode.

In a verbatim context, the active quotes will normally be disabled. If a character is not in the Ascii range, however, its original function is restored so that the inputenc package may handle non-Ascii characters in verbatim contexts. This implies that inputenc should be loaded before any active quotes are defined. This feature is available with the standard verbatim environments (including `\verb`) as well as those provided by the verbatim, fancyvrb, and shortvrb packages. The listings package provides dedicated support for non-Ascii input encodings. When using this package, activate its ‘extended characters’ option and specify the input encoding. In addition to that, the active quotes will be disabled while the argument to `\index` and `\glossary` is parsed.

Some care is still required when choosing active quotes. Note that you normally cannot use active characters in the argument to commands expecting a string of ordinary characters, such as `\input`, `\label`, or `\cite`. If the babel package is loaded, which redefines some commands affected by this general problem, csquotes will take advantage of that automatically.

8.3 PDF strings and hyperref support

This package interfaces with the hyperref package as PDF strings such as bookmarks are generated. See section 7.5 on how to configure the quotation marks used in PDF strings. Support for PDF strings is only available with the basic facilities presented in sections 3.1 and 3.2 as well as 4.1 and 4.2. Be advised that the way hyperref builds PDF strings imposes severe limitations on the capabilities of

Double quotation marks		Single quotation marks	
Command	Example	Command	Example
<code>\textquotedblleft</code>	“AaGg”	<code>\textquoteleft</code>	‘AaGg’
<code>\textquotedblright</code>	”AaGg”	<code>\textquoteright</code>	’AaGg’
<code>\quotedblbase</code>	„AaGg„	<code>\quotesinglbase</code>	,AaGg,
<code>\guillemotleft</code>	«AaGg«	<code>\guilsinglleft</code>	‹AaGg‹
<code>\guillemotright</code>	»AaGg»	<code>\guilsinglright</code>	›AaGg›

Table 6: Quotation marks included in T1 and LY1 encoding

all commands. Most notably, the nesting level of quotations cannot be tracked in this context. Nested quotations will generally get outer marks, but you may use starred commands or active inner quotes to request inner marks explicitly. If quotation marks are to be included in the document properties of a PDF file, you must use `\hypersetup` to specify the strings. The replacement mechanism will not function within the optional argument to `\usepackage`. For information about PDF strings see the `hyperref` documentation, most notably `paper.pdf`.¹

8.4 Footnotes within quotations

This package will automatically reset the nesting level within any footnote included in a quotation. If the `babel` package has been loaded, it will also reset the language. The language of the footnote text including the hyphenations patterns will match the language of the text surrounding the quotation. This applies to `parboxes`, `minipages`, and `floats` as well.

8.5 Output encodings

The OT1 font encoding, the default output encoding of LaTeX, merely includes the quotation marks used in English. You will need to switch to T1 or LY1 encoding in order to get guillemets or baseline quotation marks. This package deliberately refrains from providing any workarounds for the obsolete OT1 encoding. If you need T1 encoding for some of the quotation marks, you will most likely need it anyway to get proper hyphenation for the respective language. See table 6 for a list of common quotation marks included in both T1 and LY1 encoding.

8.6 Additional notes about the predefined styles

All variants of the french style use guillemets as outer marks and space out the marks automatically. The `quotes` variant uses double quotes as inner marks whereas the `guillemets` variant employs guillemets on all levels. The latter will also add a guillemet at the beginning of every paragraph inside a quotation spanning multiple paragraphs. In addition to that, two adjoining marks at the end of a quotation are replaced by a single one. If two nested quotations end simultaneously, the second closing guillemet is omitted automatically. The starred variant `guillemets*` is similar to its regular counterpart, differing only in the middle mark inserted at the beginning of every paragraph. The regular variant uses a left-pointing guillemet whereas the starred one uses a right-pointing one.

¹ <http://www.ctan.org/tex-archive/macros/latex/contrib/hyperref/doc/paper.pdf>

The `oldstyle` variants available with some styles are also worth mentioning. They will place an opening outer mark at the beginning of every line within the quotation. Note that this feature requires Omega, a backwards compatible replacement of TeX. You need to compile the LaTeX source with `lambda` if you want to make use of those variants. This feature will not be available if the source is compiled with `latex`. The `oldstyle` variant of the `english` style is based on the British custom and inserts a single quote at the beginning of the line. The respective variant of the `french` style uses a left-pointing guillemet instead. The `imprimerie` variant of the `french` style, which is based on a directive of the Imprimerie Nationale, the French government printing office, requires Omega as well. It essentially incorporates all features of the `guillemets` variant. In addition to that, it inserts a left-pointing guillemet at the beginning of every line within an inner quotation spanning multiple lines.

9 Revision history

Since its initial release, the scope of this package has been significantly extended. This means that new features were added, but it also implies that the behavior and the syntax of existing commands may have changed. If an entry in the revision history states that a command has been *extended*, this indicates a syntactically backwards compatible modification, such as the addition of an optional argument. Entries stating that a command has been *modified* demand special attention. They indicate a change in syntax which may require changes to existing documents. If a command has been *renamed*, the old name is still supported but using the new one is strongly encouraged in newly created documents. The numbers on the right indicate the relevant section of this manual.

Version 3.1 2005-08-29

Added <code>\textquote</code>	3.3
Added <code>\foreigntextquote</code>	3.4
Added <code>\hyphentextquote</code>	3.4
Renamed <code>\cquote</code> to <code>\textcquote</code>	5.1
Renamed <code>\foreigncquote</code> to <code>\foreigntextcquote</code>	5.2
Renamed <code>\hyphencquote</code> to <code>\hyphentextcquote</code>	5.2
Extended <code>\textcquote</code>	5.1
Extended <code>\foreigntextcquote</code>	5.2
Extended <code>\hyphentextcquote</code>	5.2
Modified environment <code>displayquote</code>	6.1
Modified environment <code>foreigndisplayquote</code>	6.1
Modified environment <code>hyphendisplayquote</code>	6.1
Extended environment <code>displaycquote</code>	6.2
Extended environment <code>foreigndisplaycquote</code>	6.2
Extended environment <code>hyphendisplaycquote</code>	6.2
Added <code>\mkmidtextpunct</code>	7.7
Added <code>\mkfintextpunct</code>	7.7

Added \mkmidisppunct	7.7
Added \mkfindisppunct	7.7
Added auxiliary environment quotetext	7.7
Added detection of paragraphs to all block quotation facilities	3.5
\ifquote... now generally usable in \mkcitation and \mkccitation	7.8
Terminal punctuation now generally evaluated by all quotation facilities	
Prevent undesirable ?' and !' ligatures in T ₁ encoding	
Always adjust space factor codes of backend quotes	
Make \ExecuteOptions process key/value options in configuration file	

Version 3.0 2005-07-14

Extended \blockquote	3.5
Extended \foreignblockquote	3.6
Extended \hyphenblockquote	3.6
Extended \setquotestyle	3.7
Added \cquote	5.1
Added \foreigncquote	5.2
Added \hyphencquote	5.2
Added \blockcquote	5.3
Added \foreignblockcquote	5.4
Added \hyphenblockcquote	5.4
Added environment displayquote	6.1
Added environment foreigndisplayquote	6.1
Added environment hyphendisplayquote	6.1
Added environment displaycquote	6.2
Added environment foreigndisplaycquote	6.2
Added environment hyphendisplaycquote	6.2
Modified \DeclarePlainStyle	7.5
Added \SetCiteCommand	7.6
Renamed \blockcite to \mkcitation	7.7
Added \mkccitation	7.7
Added \mkmidblockpunct	7.7
Added \mkfinblockpunct	7.7
Added \ifquotepunct	7.8
Added \ifquoteterm	7.8
Added \ifquoteperiod	7.8
Added \ifquotecomma	7.8
Added \ifquotesemicolon	7.8
Added \ifquotecolon	7.8
Added \ifquoteexclam	7.8
Added \ifquotequestion	7.8
Added \ifstringblank	7.8
Added evaluation of terminal punctuation within block quotations	
With \nonfrenchspacing, adjust space factor codes of backend quotes	
Improved nesting control when running under e-TeX	

Version 2.8 2005-05-11

Added `\DisableQuotes` 4.5
Fixed bug causing kerning restoration to fail in some rare cases

Version 2.7 2005-04-13

Use the font's kerning pairs for adjoining quotes, if available 7.1
Renamed `\setblockthreshold` to `\SetBlockThreshold` 7.6
Renamed `\setblockenvironment` to `\SetBlockEnvironment` 7.6
Provided more useful default definition of `\blockcite` 7.7
Improved handling of adjoining quotes with respect to line breaking
When restoring active quotes, restore catcodes of delimiters as well
Improved workaround for `\uppercase` and some babel languages
Issue error message on quote mismatch regardless of `strict` option
Issue `hyperref` warning with block quotation commands in PDF strings
Fixed bug in `\DeclareQuoteStyle` and `\DeclareQuoteAlias`

Version 2.6 2005-02-24

Always reset quote style, even for inner quotations
Fixed bug preventing hyphenation in certain places

Version 2.5 2004-12-04

Added `\MakeBlockQuote` 4.3
Added `\MakeForeignBlockQuote` 4.4
Added `\MakeHyphenBlockQuote` 4.4
Added `\ifblockquote` 7.8
Modified `\blockquote` 3.5
Modified `\foreignblockquote` 3.6
Modified `\hyphenblockquote` 3.6
Changed default threshold for block quotations 7.6
Improved math mode compatibility 8.2
Improved verbatim compatibility 8.2
Improved backend and active character handling
Improved validation of user-defined active characters
Fixed bug suppressing kerning after block quotations
Issue error message with nested block quotations

Version 2.4 2004-11-01

Prevent use of `\RestoreQuotes` in preamble 4.5
Fixed bug causing premature expansion of backend quote macros
Fixed bug suppressing kerning before closing quotes

Version 2.3 2004-09-18

Reduced default kerning between adjoining curved quotes
Fixed bug with `\DeclareQuoteStyle` in preamble

Version 2.2 2004-07-13

Extended <code>\DeclareQuoteStyle</code>	7.1
Added initialization hook for inner quotations	7.1
Added support for middle inner quotes	7.1
Rearranged French quote styles, removing two variants	8.6
Added new style variant for French	8.6
Fixed bug causing stacking of reset hook for footnotes	
Fixed bug preventing hyphenation in certain places	
Fixed kerning issue specific to EC fonts	

Version 2.1 2004-06-15

Added auxiliary environment <code>quoteblock</code>	7.7
Added support for language reset in footnotes	8.4
Disable active characters in <code>\verb</code> and <code>verbatim</code>	8.2
Disable active characters in <code>\index</code> and <code>\glossary</code>	8.2
Added package option and style variants for Norwegian	
Removed some uncertain quote styles and aliases	
Rearranged quote styles and aliases	

Version 2.0 2004-06-04

Added <code>\blockquote</code>	3.5
Added <code>\foreignblockquote</code>	3.6
Added <code>\hyphenblockquote</code>	3.6
Added <code>\setblockthreshold</code>	7.6
Added <code>\setblockenvironment</code>	7.6
Added auxiliary command <code>\blockcite</code>	7.7
Extended <code>\DeclareQuoteStyle</code>	7.1
Added initialization hook for outer quotations	7.1
Added support for middle outer quotes	7.1
Added support for kerning between adjoining quotes	7.1
Disable active characters in math and display math mode	8.2
Added basic support for Omega	8.6
Revised and improved error recovery	2.1
Added package option <code>strict</code>	2.1
Added package option and new style variants for French	
Added package option and new style variant for Italian	
Added new style variant for English	

Version 1.7 2004-05-14

Added <code>\setquotestyle</code>	3.7
Modified <code>\DeclarePlainStyle</code>	7.5
Improved quote handling in PDF strings	8.3
Amended default French quote style	8.6

Version 1.5 2004-02-27

Reset quote nesting level in footnotes within quotations 8.4

Version 1.4 2003-12-13

Added \MakeForeignQuote 4.2

Added \MakeHyphenQuote 4.2

Added \RestoreQuotes 4.5

Improved hyperref interface 8.3

Version 1.0 2003-09-14

Initial public release