

# LuaQuotes: A package for smart quotation marks

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## Contents

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# 1 Overview

## 1.1 Purpose

This package provides a function to automatically have ‘smart quotes’ in Lua<sup>1</sup>TeX. By ‘smart quotes’, I refer to the automatic insertion of curved or ‘typographer’s’ quotation marks when the user types straight quotation marks. The below figure illustrates the distinction in English typography:

User input	Smart Quotes Off	Smart Quotes On
"Howdy!"	"Howdy!"	“Howdy!”
'Don't!'	'Don't!'	‘Don’t!’

## 2 Smart quotes

### 2.1 Options

The default option, for English quotation marks, is called by:

```
\usepackage{luaquotes}
```

The French and German options, for those languages’ punctuation, are called by the following respective commands.

```
\usepackage[fr]{luaquotes} %French  
\usepackage[de]{luaquotes} % German  
\usepackage[degm]{luaquotes} % German with French-style quotes
```

#### 2.1.1 English Features

The English features are designed to smartly recognise English punctuation:

Feature	User input	Output
Double Quotes	"Salut!"	“Hello”
Single Quotes	'Hello!'	‘Hello’
Contractions	Don't	Don’t

### 2.1.2 French option

The French option produces the following output, including the extra space around punctuation prescribed by French typography:

User input	Output
"Salut!"	«Salut!»
'Salut!'	‹Salut!›

### 2.1.3 The German option

The German option produces the following output:

User input	Output
"Hallo!"	„Hallo!“
'Hallo!'	‚Hallo!‘

### 2.1.4 The German (degm) option

The German (degm) option produces the following output:

User input	Output
"Hallo!"	»Hallo!«
'Hallo!'	›Hallo!‹

## 2.2 Activation and De-activation

The package automatically activates the smart quotes function at the beginning of the document. To deactivate the smart quotes function within a document, the following commands are used:

```
\dumbquotes %English  
\frdumbquotes %French  
\dedumbquotes %German  
\degmdumbquotes %German with French-style quotes
```

The following commands re-activate the smart quotes function:

```
\smartquotes %English
\frsmartquotes %French
\desmartquotes % German
\degmsmartquotes % German with French-style quotes
```

A limitation on the (de-)activation of the package is that the Lua filters will not deactivate within the same paragraph, so the function can only be changed across paragraphs.

## 2.3 Monospace

As a general rule, smart quotes are rather undesirable in monospace text, and therefore, within the `\texttt` environment the package does not apply smart quotes. Thus, the same input produces in roman face “Hello World” but in monospace "Hello World".

As the example above shows, the default behaviour of this package forces straight quotes in monospace, and disables T<sub>E</sub>X quote ligatures (but not other T<sub>E</sub>X ligatures) to do so, on the assumption that any form of curved quotes are undesirable.

For extended periods of monospaced text called by `\ttfamily`, the activation and de-activation methods above should be used. I considered altering the `\ttfamily` command to always call on `\dumbquotes`, but I thought it best to avoid messing with the command. This may change in future development.

If a user desires to disable the smart quotes for other faces, this is easily done globally by adding the following line to the font’s configuration in `fontspec`:

```
RawFeature={+qtbye}
```

This will, however, result in the font using straight quotes rather than the standard T<sub>E</sub>X quote ligatures, making it a distinct option than the activation and de-activation options *supra*.

## 3 Auxiliary Punctuation

The smart quotes feature covers the ‘standard’ usage of quotes, but there are many instances where quotation mark or quote-mark like features are needed outside the automatic formatting. The package provides several commands for this.

### 3.1 Standalone quotes

The marks in this section are the set of quotation marks used generally in writing and require little explanation. However, it should be noted that the commands `\sqoneright` and `\apost` (which produce identical output) are very

useful for aphetic words by which the first syllable is clipped, as in the sequence 'bout the smart quotes function will incorrectly produce an opening quote instead of the correct closing quote to indicate the elision. Thus, the incorrect result of 'bout is produced. The solution is to use the code \apost bout which produces 'bout.

Name		UTF-8	Command	Produces
Single low quote		U+201A	\desingle	, ¨
Double low quote		U+201E	\dedouble	,, ¨
Single quote	straight	U+0027	\dqone	' ¨
Double quote	straight	U+0022	\dqtwo	" ¨
Left single quote		U+2018	\sqoneleft	‘ ¨
Right single quote		U+2019	\sqoneright	¨’
Apostrophe		U+2019	\apost	¨’
Left double quote		U+201C	\sqtwoleft	“ ¨

Right double quote	U+201D	\sqtworight	”
Left guillemet [w/ space]	U+00AB	\glmtl	«
Right guillemet [w/ space]	U+00BB	\glmtr	»
degm left guillemet	U+00BB	\degmtl	»
degm right guillemet	U+00AB	\degmtr	«
Single left guillemet [w/ space]	U+2039	\sglmtl	<
Single right guillemet [w/ space]	U+203A	\sglmtr	>
degm single left guillemet	U+203A	\desgmtl	>
degm single right guillemet	U+2039	\desgmtr	<

### 3.2 Additional symbols

These are quote like symbols which are useful for precise punctuation, since standard smart quotation marks do not work well in their specialised use cases.

Name	UTF-8	Command	Produces
Backtick	U+0060	<code>\bcktick</code>	`

For typesetting US/Imperial measurements like feet and inches, the correct symbol is a prime and double prime. Many modern typefaces have these symbols, and they are thus useful for typesetting feet and inch measurements (like 6'4").

Name	UTF-8	Command	Produces
Single Prime	U+2032	<code>\lqprime</code>	'
Double Prime	U+2033	<code>\ldoubleprime</code>	''

For certain Polynesian languages, a letter called the ‘Okina is used; while this appears identical to a left single quotation mark in many fonts, it is encoded differently in Unicode because it is properly a letter, not a punctuation mark.

Name	UTF-8	Command	Produces
Okina	U+022B	<code>\okina</code>	‘

## 4 Future Development and Localisation

The package’s online repository is the best place to report bugs, feature requests, or other contributions, and is located at:  
<https://github.com/ezgranet/luaquotes>.

One obvious point of future development is the addition of other language localisations; this is technologically easy in principle but difficult for me to accomplish without assistance because it requires detailed knowledge of typographic conventions for any given language standard, and therefore the aid of contributors and collaborators.

## 5 Licence

This project is licensed under the Latex Public Project Licence version 1.3c. This documentation is copyright of the author but licensed under CC-BY-SA 3.0.



## 6 Implementation

```
2 \def\luaquotesversionnumber{1.1}
3 \ProvidesPackage{dev-lua}
4 [2022/10/25\luaquotesversionnumber smart quotes with lua]
5 % !TeX program = lualatex
6 % !TeX encoding = utf8
7 % This work may be distributed and/or modified under the
8 % conditions of the LaTeX Project Public License, either version 1.3
9 % of this license or (at your option) any later version.
10 % The latest version of this license is in
11 % http://www.latex-project.org/lppl.txt
12 % and version 1.3 or later is part of all distributions of LaTeX
13 % version 2005/12/01 or later.
14 %
15 % This work has the LPPL maintenance status `maintained'.
16 %
17 % The Current Maintainer of this work is Elijah Z Granet
```

### 6.1 LuaTeX check

```
18 %%%%%%%%%%%
19 %%%%%%%%%%%
20 % to show the package only works with Lua
21 %%%%%%%%%%%
22 %%%%%%%%%%%
23 \RequirePackage{iftex}
24 \ifPDFTeX {
25   \PackageError{luaquotes}
26     {You are using pdfTeX but this package only works
27     \MessageBreak with LuaTeX}{}
28 }
29 \else\ifXeTeX{ \PackageError{luaquotes}
30   {You are using XeTeX but this package only works
31   \MessageBreak with LuaTeX}{}
32 }\fi\fi
```

### 6.2 Dependencies

```
33 %%%%%%%%%%%
34 %%%%%%%%%%%
```

```

35 % Dependency
36 %%%%%%%%%%
37 %%%%%%%%%%
38 \RequirePackage{luacode}
39 %%%%%%%%%%
40 %%%%%%%%%%
41 % fontspec for the auxiliary
42 % quotes where tligs need
43 % to be disabled
44 %%%%%%%%%%
45 %%%%%%%%%%
46 \RequirePackage{fontspec}
47 %%%%%%%%%%

```

### 6.3 Avoiding smart quotes in monospace

```

48 %%%%%%%%%%
49 %%%%%%%%%%
50 % removing the effects for monospace
51 %%%%%%%%%%
52 \begin{luacode}
53 \begin{minted}[
54   frame=lines,
55   framesep=2mm,
56   baselinestretch=1.2,
57   bgcolor=LightGray,
58   fontsize=\footnotesize,
59   linenos,
60   breaklines,
61   firstnumber=last
62 ]
63 {lua}
64 local uchar = unicode.utf8.char
65   fonts.handlers.otf.addfeature{
66     name = "qtbye",
67     type = "substitution",
68     data =
69     {
70       " = 0x0022,
71       " = 0x0022,
72       ' = 0x0027,
73       « = 0x0022,
74       » = 0x0022,
75       < = 0x0027,

```

```

76 > = 0x0027
77 },

```

```

78 \end{luacode}

```

## 6.4 Quote replacement functions

```

79 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
80 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
81 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
82 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
83 % Code here and throughout similar
84 %functions partly adapted from TeX.SE user
85 % Mico
86 % https://tex.stackexchange.com/questions/499953/how-to-generate-correct-
87 % ↪ single-and-double-quotes-in-tex
88 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
89 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

```

```

90 function doublequotes ( s )
91     return ( s:gsub ( “(.-)” , ““%1”” ) )

```

```

92 }
93
94 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
95 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
96 % Assuming ‘ at the start of the line means an opening quotation mark not an
97 % ↪ apostrophe
98 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
99 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%

```

```

99 function singlequotelinestart ( s )
100     return (s:gsub ( "%' ", "' ' " ) )
101 end

```

```

102     }
103     \luaexec{
104         \begin{minted}[
105             frame=lines,
106             framesep=2mm,
107             baselinestretch=1.2,
108             bgcolor=LightGray,
109             fontsize=\footnotesize,
110             linenos,
111             breaklines,
112             firstnumber=last
113         ]
114         {\lua}
115
116
117 %function abbrevsingle ( s )
118 %           return ( s:gsub ( “ ‘(.-) ” , “ ’\%1 ” ) )
119 %           end

```

```

120
121     }
122
123
124 \luaexec{

```

```
125 function singlequotes ( s )
126     return ( s:gsub ( “‘”,”’” ) )
```

127 }

## 6.5 Activation commands

```
128 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
129 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
130 % activation and deactivation
131 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
132 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
133 \newcommand\doublequoteson{\directlua{
```

```
134
135 \luatexbase.add_to_callback (
136   "process_input_buffer", doublequotes , "doublequotes" )
```

```
137   }}
138 \newcommand\doublequotesoff{\directlua{
```

```
139 \luatexbase.remove_from_callback (
140   "process_input_buffer" ,
141   "doublequotes" )
```

```
142   }}
143 %\newcommand\abbrevsingleon{\directlua{
```

```
144
145 %
146 %\luatexbase.add_to_callback (
147 %   "process_input_buffer" ,
148 %   abbrevsingle ,
149 %   "abbrevsingle" )
```

```

150
151
152 %   }}
153 %\newcommand\abbrevsingleoff{\directlua{

```

```

154
155 %\luatexbase.remove_from_callback (
156 %   "process_input_buffer",
157 %   "abbrevsingle" )

```

```

158
159 %   }}
160
161
162
163 \newcommand\singlequotelinelstarton{\directlua{

```

```

164 \luatexbase.add_to_callback (
165   "process_input_buffer", singlequotelinelstart, "singlequotelinelstart" )

```

```

166   }}

```

```

167 \luatexbase.remove_from_callback (
168   "process_input_buffer", "singlequotelinelstart" )

```

```

169   }}
170 \newcommand\singlequoteson{\directlua{
171 \luatexbase.add_to_callback (

```

```

172     }}
173 \newcommand\singlequotesoff{\directlua{

```

```

174 \luatexbase.remove_from_callback (
175     "process_input_buffer" , "singlequotes" )

```

```

176 }}
177 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
178 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
179 % global functions, useful for things like this
180 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
181 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
182 \newcommand{\smartquotes}{%
183 \doublequoteson%
184 \singlequotelinestarton%
185 %\abbrevsingleon%
186 \singlequoteson}
187 \newcommand{\dumbquotes}{
188 \doublequotesoff
189 %\abbrevsingleoff
190 \singlequotelinestartoff
191 \singlequotesoff}

```

## 6.6 English option

```

192 \DeclareOption{en}{
193 \AtBeginDocument{
194 \frsmartquotes
195 \frdumbquotes
196 \desmartquotes
197 \dedumbquotes
198 \degmsmartquotes
199 \degmdumbquotes
200 \smartquotes}
201 \renewcommand{\texttt}[1]{\{\ttfamily\addfontfeature{RawFeature={+qtbye,-tlig}}
202 \<→ #1}}

```

203  
204

}

## 6.7 Auxiliary punctuation

205  
206  
207  
208  
209  
210  
211  
212  
213  
214  
215  
216  
217  
218  
219  
220  
221  
222  
223  
224  
225  
226  
227  
228  
229  
230  
231  
232  
233  
234  
235  
236  
237  
238  
239  
240  
241

```
%~~~~~%
%~~~~~%
% auxiliary punctuation
%~~~~~%
% Essentially to be used where the
% thing fails to provide the
% quotation or
% quote like punctuation
% needed
%~~~~~%
%~~~~~%
%~~~~~%
%~~~~~%
%~~~~~%
%~~~~~%
%~~~~~%
%~~~~~%
% German quotations
%~~~~~%
%~~~~~%
\newcommand{\desingle}{\addfontfeature{RawFeature={-qtbye,-
↪ tlig}}\symbol{"201A}}
\newcommand{\dedouble}{\addfontfeature{RawFeature={-qtbye,-
↪ tlig}}\symbol{"201E}}
%~~~~~%
%~~~~~%
% backtick
%~~~~~%
%~~~~~%
\newcommand{\bcktk}{\addfontfeature{RawFeature={-qtbye,-tlig}}`}}
%~~~~~%
%~~~~~%
% Straight double
% and single quotes
%~~~~~%
%~~~~~%
```



```

242 \newcommand{\dqone}{{\addfontfeature{RawFeature={-qtbye,-
↪ tlig}}\symbol{"0027}}}
243 \newcommand{\dqtwo}{{\addfontfeature{RawFeature={-qtbye,-
↪ tlig}}\symbol{"0022}}}
244 %~~~~~
245 %~~~~~
246 % Prime, mostly for
247 % Feet and inches
248 %~~~~~
249 %~~~~~
250 \newcommand{\lqprime}{'}
251 \newcommand{\lqdoubleprime}{"}
252 %~~~~~
253 %~~~~~
254 % The Okina, for typing
255 % Hawai‘i
256 %~~~~~
257 %~~~~~
258 \newcommand{\okina}{‘}
259 %~~~~~
260 %~~~~~
261 % The individual smart quotes
262 %
263 %~~~~~
264 %~~~~~
265 %~~~~~
266 %~~~~~
267 \newcommand{\sqtwoleft}{{\addfontfeature{RawFeature={-qtbye,-tlig}}“}}
268 \newcommand{\sqtwo right}{{\addfontfeature{RawFeature={-qtbye,-tlig}}”}}
269 \newcommand{\sqoneright}{{\addfontfeature{RawFeature={-qtbye,-tlig}}’}}
270 \newcommand{\apost}{{\addfontfeature{RawFeature={-qtbye,-tlig}}’}}
271 \newcommand{\sqoneleft}{{\addfontfeature{RawFeature={-qtbye,-tlig}}‘}}
272 \newcommand{\glmtl}{{\addfontfeature{RawFeature={-qtbye,-tlig}}«\,}}
273 \newcommand{\glmtr}{{\addfontfeature{RawFeature={-qtbye,-tlig}}\,»}}
274 \newcommand{\sglmtl}{{\addfontfeature{RawFeature={-qtbye,-tlig}}‹\,}}
275 \newcommand{\sglmtr}{{\addfontfeature{RawFeature={-qtbye,-tlig}}\,›}}

```

## 6.8 The German option

```

276 %~~~~~
277 %~~~~~
278 %~~~~~
279 % DEUTSCH
280 %~~~~~

```

```

281 %%%%%%%%%%%%%%%
282 \luaexec{

```

```

283 function dedoublequotes ( s )
284     return ( s:gsub ( “(.-)” , “\%1“” ) )
285 end

```

```

286 }
287 \luaexec{

```

```

288 function desinglequotelinestart ( s )
289     return (s:gsub ( “^!” , “,” ) )
290 end

```

```

291 }
292 \luaexec{

```

```

293 function desinglequotesclose( s )
294 return ( s:gsub ( “‘(.-)’” , “,\%1’” ) )
295 end

```

```

296 }
297
298 %% Two utility macros to activate/deactivate the Lua function:
299 \newcommand\dedoublequoteson{\directlua{

```

```

300 luatexbase.add_to_callback (
301   "process_input_buffer" , dedoublequotes , "dedoublequotes" )

```

```

302   }}
303   \newcommand\dedoublequotesoff{\directlua{luatexbase.remove_from_callback (
304     "process_input_buffer" , "dedoublequotes" )

```

```

305   }}
306   \newcommand\desinglequotelinedstarton{\directlua{

```

```

307   luatexbase.add_to_callback (

```

```

308   }}
309   \newcommand\desinglequotelinedstartoff{\directlua{

```

```

310   luatexbase.remove_from_callback (
311     "process_input_buffer" , "desinglequotelinedstart" )

```

```

312   }}
313   \newcommand\desinglequotescloseon{\directlua{

```

```

314   luatexbase.add_to_callback (
315     "process_input_buffer" , desinglequotesclose , "desinglequotesclose" )

```

```

316     }}
317 \newcommand\desinglequotescloseoff{\directlua{

```

```

318     luatexbase.remove_from_callback (
319         "process_input_buffer" , "desinglequotesclose" )

```

```

320     }}
321 \newcommand{\desmartquotes}{\dedoublequoteson
322 \desinglequotelinestarton
323 \desinglequotescloseon}
324 \newcommand{\dedumbquotes}{\dedoublequotesoff
325 \desinglequotelinestartoff
326 \desinglequotescloseoff}
327 \DeclareOption{de}{
328 \AtBeginDocument{
329 \frsmartquotes
330 \frdumbquotes
331 \smartquotes
332 \dumbquotes\dumbquotes
333 \desmartquotes}
334 \renewcommand{\texttt}[1]{\{\ttfamily\addfontfeature{RawFeature={+qtbye,-tlig}}
↪ #1}}
335 }

```

## 6.9 The German with French-style quotes (degm) option

```

336
337 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
338 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
339 % SCHÖNERES DEUTSCH
340 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
341 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
342 \luaexec{

```

```

343 function degmdoublequotes ( s )
344     return ( s:gsub ( “(.-)” , “»%1«” ) )
345 end

```

```

346     }
347 \luaexec{

```

```

348 function degmsinglequotelinestart ( s )
349     return (s:gsub ( “^” , “,” ) )
350 end

```

```

351     }
352 \luaexec{

```

```

353 function degmsinglequotesclose( s )
354     return ( s:gsub ( “(.-)” , “,%1,” ) )
355 end

```

```

356     }
357
358 %% Two utility macros to activate/deactivate the Lua function:
359 \newcommand\degmdoublequoteson{\directlua{

```

```

360 luatexbase.add_to_callback (
361     “process_input_buffer” , degmdoublequotes , “degmdoublequotes” )

```

```

362     }}
363     \newcommand\degmdoublequotesoff{\directlua{luatexbase.remove_from_callback (
364         "process_input_buffer" , "degmdoublequotes" )

```

```

365     }}
366     \newcommand\degmsinglequotelinetarton{\directlua{

```

```

367     luatexbase.add_to_callback (

```

```

368     }}
369     \newcommand\degmsinglequotelinetastoff{\directlua{

```

```

370     luatexbase.remove_from_callback (
371         "process_input_buffer" , "degmsinglequotelinetast" )

```

```

372     }}
373     \newcommand\degmsinglequotescloseon{\directlua{

```

```

374     luatexbase.add_to_callback (
375         "process_input_buffer" , degmsinglequotesclose , "degmsinglequotesclose" )

```

```

376     }}
377     \newcommand\degmsinglequotescloseoff{\directlua{

```

```

378 luatexbase.remove_from_callback (
379   "process_input_buffer" , "degmsinglequotesclose" )

```

```

380   }}
381   \newcommand{\degmsmartquotes}{\degmdoublequoteson
382   \degmsinglequotelineseartton
383   \degmsinglequotescloseon}
384   \newcommand{\degmdumbquotes}{\degmdoublequotesoff
385   \degmsinglequotelinesearttoff
386   \degmsinglequotescloseoff}
387   \DeclareOption{degm}{
388   \AtBeginDocument{
389   \frsmartquotes
390   \frdumbquotes
391   \smartquotes
392   \dumbquotes\dumbquotes
393   \degmsmartquotes}
394   \renewcommand{\texttt}[1]{\{\ttfamily\addfontfeature{RawFeature={+qtbye,-tlig}}
↪   #1}}
395   }

```

## 6.10 The French option

```

396
397 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
398 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
399 % Français
400 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
401 %%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
402 \luaexec{

```

```

403 function frdoublequotes ( s )
404   return ( s:gsub ( "«(.-)»" , "«\\,%1\\,»" ) )
405 end

```

```

406 }
407 \luaexec{

```

```

408 function frsinglequotelinestart ( s )
409     return (s:gsub ("%^'", "'") )

```

```

410 }
411 \luaexec{

```

```

412 function frsinglequotesclose( s )
413 return ( s:gsub ( "%'(.-)'", " <\\,%1\\,>" ) )
414     end

```

```

415 }
416 %% Two utility macros to activate/deactivate the Lua function:
417 \newcommand\frdoublequoteson{\directlua{

```

```

418 luatexbase.add_to_callback (
419     "process_input_buffer", frdoublequotes , "frdoublequotes" )

```

```

420 }}
421 \newcommand\frdoublequotesoff{\directlua{

```

```

422 luatexbase.remove_from_callback (
423     "process_input_buffer" , "frdoublequotes" )

```



```

424 }}
425 \newcommand\frsinglequotelinedstarton{\directlua{

```

```

426 luatexbase.add_to_callback (
427     "process_input_buffer", frsinglequotelinedstart , "frsinglequotelinedstart" )

```

```

428 }}
429 \newcommand\frsinglequotelinedstartoff{\directlua{

```

```

430 luatexbase.remove_from_callback (
431     "process_input_buffer" , "frsinglequotelinedstart" )

```

```

432 }}
433 \newcommand\frsinglequotescloseon{\directlua{

```

```

434 luatexbase.add_to_callback (
435     "process_input_buffer", frsinglequotesclose , "frsinglequotesclose" )

```

```

436 }}
437 \newcommand\frsinglequotescloseoff{\directlua{

```

```

438 luatexbase.remove_from_callback (
439     "process_input_buffer" , "frsinglequotesclose" )

```

```

440 }}
441 \frsinglequotelinestarton
442 \frsinglequotescloseon}
443 \newcommand{\frdumbquotes}{\frdoublequotesoff
444 \frsinglequotelinestartoff
445 \frsinglequotescloseoff}
446 \DeclareOption{fr}{
447 \AtBeginDocument{\desmartquotes\dedumbquotes\smartquotes\dumbquotes\dumbquotes\frsmartquotes}
448 \renewcommand{\texttt}[1]{\{\ttfamily\addfontfeature{RawFeature={+qtbye,-tlig}}
↪ #1}}
449
450 }

```

## 6.11 Process Options

```

451 %~~~~~%
452 % Default option is English
453 %~~~~~%
454 %~~~~~%
455 \ExecuteOptions{en}%
456 \ProcessOptions*
457
458
459

```

## 7 Version History

### 7.1 1.2.2

Added the “degm” option

### 7.2 1.2.1

Suspended automatic elision support due to implementation issues

### 7.3 1.1.0

25 October 2022: Added support for elision

#### **7.4 1.0.1**

30 August 2022: Further corrections to bug preventing non-English usage

#### **7.5 1.0.1**

28 August 2022: Change bug preventing non-English usage

#### **7.6 1.0.0**

21 August 2022: Package creation