# The doclicense $\operatorname{package}^*$

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### Abstract

Support for putting documents under a license. Information site on CTAN: https://www.ctan.org/pkg/doclicense Example on Stackexchange: https://tex.stackexchange.com/a/226788/ 32320 Fork me on GitHub: https://github.com/ypid/latex-packages/tree/ master/doclicense

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\*This document corresponds to doclicense v1.7.1, dated 2018/04/24.

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### 1 Introduction

The doclicense package allows you to put your document under a license and include a link to read about the license or include an icon or image of the license. Currently, only Creative Commons is supported but this package is designed to handle all kinds of licenses. See Contributing.

### 2 Usage

Just load the package(s) placing

\usepackage{
% babel,
% hyperref,
% hyperxmp,
doclicense,
}

in the preamble of your  $\operatorname{ETE} X 2_{\varepsilon}$  source file. This will select the default license which is CC BY-SA 3.0, currently. Please always set your license explicitly as package options like so:

```
\usepackage{
% babel,
% hyperref,
% hyperxmp,
}
\usepackage[
  type={CC},
  modifier={by-sa},
  version={3.0},
]{doclicense}
```

This will explicitly set the license to CC BY-SA 3.0.

If the hyperxmp package is loaded, then the options *pdflicenseurl* and *pdf-copyright* will be set by doclicense to the corresponding values ("https://creativecommons.org/licenses/by-sa/3.0/deed.en" and "This work is licensed under a Creative Commons 'Attribution-ShareAlike 3.0 Unported' license.").

### 3 Package options

type	Sets the license type. Like in the previous example, the type can be "CC" to				
51	cover all the Creative Commons licenses. Please make sure that the type is all				
	uppercase. See the Supported licenses section for a complete list.				
	Allows to select different subclasses of a license. In the example it is "by-sa".				
	Please make sure that the type is all lowercase. See the Supported licenses section				
	for a complete list.				
version	As there can be more than one version of a license, the version can also be set.				
lang	mg This package can output some texts like the long license name. Because of this				

there needs to be a way to specify the language to use. If this parameter is omitted, then this package will default to \languagename which is normally set by packages like babel or polyglossia.

Supported languages:

	French Added by Éric Guirbal.
	German Added by Robin Schneider.
	Italian Added by Filippo Rigotto.
	Russian Added by Anton Karmanov.
	Spanish Added by Carlos. Updated by IgnacioFDM.
-	Image position for \doclicenseThis: right (default) or left. Default image width for the license image. Distance between text and image in \doclicenseThis.

English Added by Robin Schneider.

imagemodifier Select different variations of license images. For example, Creative Commons provides sometimes more than one image for one version. See the donwload page. You will note that there are by-nc.eu and by-nc which only differ in the money unit. By default the by-nc image would be used but you can change this with:

```
\usepackage[
    imagemodifier={-eu},
]{doclicense}
```

Note that if French or German is set as language then "-eu" will be used as default for this option.

Currently supported are "-eu" and "-us".

hyphenation This option allows you to specify a macro name which is going to be expanded in the minipage environment of \doclicenseThis. That allows you to change the behaviour how \doclicenseLongText is typeset. By default, this option is not enabled.

One possible use case is to set the option to "RaggedRight". This will use the  $\RaggedRight$  macro provided by the ragged2e package<sup>1</sup>) with the intention of

<sup>&</sup>lt;sup>1</sup>The ragged2e package will be loaded when it is required.

limiting the number of hyphenations while still allowing a hyphenation by typesetting \doclicenseLongText as ragged text.

The idea of using ragged text is that the \doclicenseLongText is usually one or two full line and one half full line so avoiding hyphenations might look better compared to justified text.

"RaggedRight" is also the setting used for this documentation.  $\doclicenseThis$  did not produce a hyphenation in case of this documentation but T<sub>E</sub>X did fill up the first text line to its full width by adding additional space between words. This has been be avoided by setting the following option for this document:

```
\usepackage[
   hyphenation={RaggedRight},
]{doclicense}
```

Another option which can make sense is the **\raggedright** macro which more drastically limits the number of hyphenations. This can be set as shown below:

```
\usepackage[
   hyphenation={raggedright},
]{doclicense}
```

### 4 Macros

\doclicenseType	Expands to the type as set in the package options. Example: "CC"		
\doclicenseLongType	Same as \doclicenseType except that it expands to the long license type. Example: "Creative Commons"		
	•		
\doclicenseModifier	Expands to the modifier as set in the package options. Example: "BY-SA"		
\doclicenseVersion	Expands to the version as set in the package options. Example: "3.0"		
\doclicenseURL	Expands to the official URL about the license. Note that it expands to the		
	raw URL string without the use of \href or similar. If you want the link		
	to be clickable then you can use \href or \url from the hyperref package or		
	just read on because the following macros can also do this for your. Example:		
	"https://creativecommons.org/licenses/by-sa/3.0/deed.en"		
\doclicenseName	Expands to the short name of the license. Example: "CC BY-SA 3.0"		
\doclicenseLongName	Expands to the long name of the license. Example: "Creative Commons		
C C	Attribution-ShareAlike 3.0 Unported"		
\doclicenseNameRef	Same as \doclicenseName except that it links to the URL of the license. Example:		
	"CC BY-SA 3.0"		
\doclicenseLongNameRef Same as \doclicenseLongName except that it links to the URL of			
G	Example: "Creative Commons Attribution-ShareAlike 3.0 Unported"		
\doclicenseText	Expands to a localized text which states that this document is licensed under the		
•	license. Example: "This work is licensed under a 'CC BY-SA 3.0' license."		
\doclicenseLongText	Same as \doclicenseText except that it uses the long name of the license. Ex-		
	ample: "This work is licensed under a Creative Commons 'Attribution-ShareAlike		
	3.0 Unported' license."		
	*		
\doclicensePlainFullText	Verbatim prints the full license text.		

An example can be found in the Plaintext license text section.

\doclicensePlainFullTextFileName Expands to the file name which the \doclicensePlainFullTextFileName			
	macro uses to \input the license text file.		
$\clicenseFullText$	Nicely prints the full license text.		
An example can be found in the Pretty license text section.			
\doclicenseFullTextFileName	Expands to the file name which the \doclicenseFullText macro uses to \input the license text file.		
\doclicenseIcon	Expands to a icon of the license. Example: " $\textcircled{O}$ . This macro is based on the ccicons package.		
\doclicenseTypeIcon	Expands to a icon of the license type. Example: " <sup>©</sup> ". This macro is based on the ccicons package.		
\doclicenseImage	This is kind of similar to \doclicenseIcon but it will typeset an bigger pictogram		
	of the license. Example: "BY SA "		
	Note that you can change the image size with the $[\langle imagewidth\rangle]$ parameter like this: " $\bigcirc$ "		
	\doclicenseImage[imagewidth=2em]		
\doclicenseImageFileName	The images are bundled with the doclicense package as vector graphics. This macro expands to the file name of the image which the \doclicenseImage typesets. You can use this file name with \includegraphics if you need more flexibility over how the image is typeset.		
\doclicenseThis	The current file name is: "doclicense-CC-by-sa" You do not have to worry about the file path. Normally your $I^{A}T_{E}X$ environment will find the image for you. And last but not least there is the \doclicenseThis macro which will typeset the \doclicenseText next to the \doclicenseImage in a "minipage" environment. This will look like the following:		

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# 5 Supported licenses

## 5.1 CC (Creative commons)

zero@1.0	CC0 1.0 Universal
pd@1.0	Copyright-Only Dedication
by@3.0	Attribution 3.0 Unported
by-sa@3.0	Attribution-ShareAlike 3.0 Unported
by-nd@3.0	Attribution-NoDerivs 3.0 Unported
by-nc@3.0	Attribution-NonCommercial 3.0 Unported

by-nc-sa@3.0	Attribution-NonCommercial-ShareAlike 3.0 Unported
by-nc-nd@3.0	Attribution-NonCommercial-NoDerivs 3.0 Unported
by@4.0	Attribution 4.0 International
by-sa@4.0	Attribution-ShareAlike 4.0 International
by-nd@4.0	Attribution-NoDerivatives 4.0 International
by-nc@4.0	Attribution-NonCommercial 4.0 International
by-nc-sa@4.0	Attribution-NonCommercial-ShareAlike 4.0 International
by-nc-nd@4.0	Attribution-NonCommercial-NoDerivatives 4.0 International

### 6 Contributing

This package is being developed on GitHub: https://github.com/ypid/latex-packages/tree/master/doclicense. When you want to modify the .sty file, make sure that you make your changes in the .dtx file instead, as the .sty file is automatically generated.

In case you want to add a translation for your language then just copy the file doclicense-english.ldf and replace the "english" in the filename with your language code (same as the language code used by babel) and translate the file. If there are multiple language codes which should map to the same translation then have a look at the file doclicense-american.ldf.

When you are done and have tested your translation (modify and run the run\_tests script) then please send me the translated file(s) either via Email or preferably by opening a pull request on GitHub so that I can include them in the next release.

### 7 Plaintext license text

The following is an example output of the \doclicensePlainFullText macro.

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#### 10 Implementation

#### 10.1 Declaring the options

```
1 %% Parameters (((
 2 \RequirePackage{kvoptions}
 3 \DeclareStringOption[CC] {type}
 4 \DeclareStringOption[by-sa]{modifier}
 5 \DeclareStringOption{version}
 6 \DeclareStringOption{lang}
 7 \DeclareStringOption{imagemodifier}
 8 \DeclareStringOption[right] {imageposition}
 9 \DeclareStringOption[10em]{imagewidth}
10 \DeclareStringOption[2em]{imagedistance}
11 \DeclareStringOption{hyphenation}
12 %% )))
13
```

To test if all parameters are valid the macro \ProcessLocalKeyvalOptions\* is expanded to ensure this before leaving the preamble. This is the only purpose for the \ProcessLocalKeyvalOptions\* macro in this case.

```
14 \ProcessLocalKeyvalOptions*
15
```

#### 10.2Dependencies

```
16 %% Dependencies (((
17 RequirePackage{xifthen}
18 \RequirePackage{etoolbox} %% \ifcsdef
19 \RequirePackage{xspace}
20 \RequirePackage{verbatim}
21 \in \{
   \equal{\doclicense@hyphenation}{}
22
23 }{}{%
    \RequirePackage{ragged2e}
24
25
    \ifthenelse{\isnamedefined{\doclicense@hyphenation}}{}{%
26
27
      \PackageError{doclicense}{Hyphenation macro not defined}
28
        {The macro name given via the hyphenation option is not defined.}%
29
    }
30 }
31 \AtEndPreamble{%
    \@ifpackageloaded{csquotes}{}{\RequirePackage{csquotes}}
32
    \@ifpackageloaded{ccicons}{}{\RequirePackage{ccicons}}
33
34
      %% For \doclicenseIcon
    \@ifpackageloaded{graphicx}{}{\RequirePackage{graphicx}}
35
      %% For \doclicenseImage
36
    \@ifpackageloaded{hyperref}{}{\RequirePackage{hyperref}}
37
    \@ifpackageloaded{hyperxmp}{%
38
      %% The following options are only defined when the hyperxmp package was loaded.
39
40
```

```
41 pdfcopyright = {\doclicenseLongText},
42 pdflicenseurl = {\doclicenseURL},
43 }
44 }{}
45 }
46 %% )))
47
```

### 10.3 Declare variables and macros

```
48 %% Declare variables (((
49 \newcommand{\doclicense@baseUrlCC}{https://creativecommons.org}
50 \newcommand{\doclicense@versionFallback}{}
51 \newcommand{\doclicense@versionUsed}{}
52 \newboolean{doclicense@licenseKnown}
53 \newlength{\doclicense@hsize}
54 \newcommand{\doclicense@longName}{%
    \@nameuse{doclicense@lang@lic@\doclicense@type @\doclicense@modifier%
55
      @\doclicense@versionUsed}%
56
57 }
58 \newcommand{\doclicense@icon}{%
    \PackageError{doclicense}{Icon not defined}
59
      {Please check the documentation of doclicense to see what you can do about it.}%
60
61 }
62 \newcommand{\doclicense@modifier@uppercase}{\texorpdfstring{%
      \MakeUppercase{\doclicense@modifier}%
63
64
    }{%
      \doclicense@modifier}%
65
66 }
67 %% )))
68
```

### 10.4 User macros

```
69 %% User macros (((
70 \newcommand{\doclicenseType}{\doclicenseCtype\xspace}
71 \newcommand{\doclicenseLongType}{}
72 \newcommand{\doclicenseModifier}{\doclicense@modifier@uppercase\xspace}
73 \newcommand{\doclicenseVersion}{\doclicense@versionUsed\xspace}
74 \newcommand{\doclicenseName}{%
    \doclicense@type\nobreakspace\doclicense@modifier@uppercase\nobreakspace%
75
    \doclicense@versionUsed\xspace%
76
77 }
78 \newcommand{\doclicenseNameRef}{\href{\doclicenseURL}{\doclicenseName}\xspace}
79 \newcommand{\doclicenseLongName}{\doclicenseLongType\space%
80
    \doclicense@longName\xspace}
81 \newcommand{\doclicenseLongNameRef}{\href{\doclicenseURL}{\doclicenseLongName}}
82 \mbox{newcommand}\doclicenseText}{%}
    \doclicense@lang@thisDoc\space
83
    \href{\doclicenseURL}{\enquote{\doclicenseName{}}}%
84
    \doclicense@lang@word@license.\xspace%
85
```

```
86 }
87 \newcommand{\doclicenseLongText}{%
     \doclicense@lang@thisDoc\space
88
     \href{\doclicenseURL}{\doclicenseLongType\space\enquote{\doclicense@longName}}%
89
     \doclicense@lang@word@license.\xspace%
90
91 }
92 \newcommand{\doclicenseIcon}{\doclicense@icon\xspace}
93 \newcommand{\doclicenseTypeIcon}{\doclicenseType}
94 % \newcommand{\doclicenseModifierIcon}{} %% Not directly provided by ccicons.
95 \newcommand{\doclicenseImageFileName}{%
     doclicensedoclicense@type-\doclicense@modifier\doclicense@imagemodifier}
96
97 \newcommand{\doclicenseImage}[1][]{%
     \setkeys{doclicense}{#1}
98
     \href{\doclicenseURL}{%
99
       \includegraphics[
100
         width=\doclicense@imagewidth%
101
       ]{\doclicenseImageFileName}%
102
    }
103
104 }
105 \newcommand{\doclicensePlainFullTextFileName}{%
106
     doclicense-\doclicense@type-\doclicense@modifier%
     -\doclicense@versionUsed-plaintext
107
108 }
109 \newcommand{\doclicensePlainFullText}{%
     \verbatiminput{\doclicensePlainFullTextFileName}
110
111 }
112 \newcommand{\doclicenseFullTextFileName}{%
     doclicense-\doclicense@type-\doclicense@modifier-\doclicense@versionUsed-latex}
113
114 \newcommand{\doclicenseFullText}{\input{\doclicenseFullTextFileName}}
115
116 \newcommand{\doclicenseLicense}{\doclicenseThis} %% legacy support
117 \newcommand{\doclicenseThis}{%
118
     \setlength{\doclicense@hsize}{\textwidth-\doclicense@imagewidth-\doclicense@imagedistance}%
119
     \ifthenelse{\equal{\doclicense@imageposition}{left}}{%
       \begin{center}
120
         \begin{minipage}{\doclicense@imagewidth}
121
           \doclicenseImage%
122
123
         \end{minipage}
         \hfill
124
         \begin{minipage}{\doclicense@hsize}
125
           \ifthenelse{\isempty{\doclicense@hyphenation}}{}{%
126
             \@nameuse{\doclicense@hyphenation}%
127
           }%
128
           \doclicenseLongText%
129
130
         \end{minipage}
131
       \end{center}
132
    }{%
133
    % \ifthenelse{\isnamedefined{iflandscape}}{%
    %
         \iflandscape{%
134
135
    %
           \setlength{\doclicense@hsize}{\doclicense@hsize-10em}%
```

```
% }{}%
136
     % }{}%
137
     % {%
138
       \begin{center}
139
          \begin{minipage}{\doclicense@hsize}
140
141
            \ifthenelse{\isempty{\doclicense@hyphenation}}{}{%
142
              \@nameuse{\doclicense@hyphenation}%
           }%
143
            \doclicenseLongText%
144
         \end{minipage}
145
          \hfill
146
          \begin{minipage}{\doclicense@imagewidth}
147
148
            \doclicenseImage%
          \end{minipage}
149
       \end{center}
150
     %}
151
     }
152
153 }
154 %% )))
155
```

#### 10.5 Language selection

The following lines include the ldf file. All language dependent things should be stored and changed there. Note that one could also redefine macros like \doclicenseLongText if necessary.

```
156 %% Language support (((
157 \ifthenelse{\equal{\doclicense@lang}}}%
158
     \renewcommand{\doclicense@lang}{\languagename}}{}
159 \IfFileExists{doclicense-\doclicense@lang.ldf}{%
     \input{doclicense-\doclicense@lang.ldf}
160
161 }{%
     \PackageWarning{doclicense}{%
162
       No language definition for \doclicense@lang found.
163
       Please add one and submit a patch. Using English as fallback.}
164
165
     \renewcommand{\doclicense@lang}{english}
     \input{doclicense-\doclicense@lang.ldf}
166
167 }
168 \ifthenelse{\equal{\doclicense@imagemodifier}{-us}}{%
     \@namedef{doclicense@imagemodifier}{}
169
170 }{}
171
172 %% )))
173
```

### 10.6 Internals

```
174 %% Set license (((
175 \newcommand{\doclicense@setVersion}[1][]{%
176 \ifthenelse{\equal{#1}{}}{%
```

```
\renewcommand{\doclicense@versionFallback}{#1}
177
     }
178
     \ifthenelse{\equal{\doclicense@version}{}}{%
179
       \renewcommand{\doclicense@versionUsed}{\doclicense@versionFallback}
180
181
     }{%
182
       \renewcommand{\doclicense@versionUsed}{\doclicense@version}
183
     }
184 }
185 \newcommand{\doclicense@set}{%
     %% CC (((
186
     \ifthenelse{\equal{\doclicense@type}{CC}}{%
187
       \renewcommand{\doclicenseLongType}{Creative Commons\xspace}
188
       \renewcommand{\doclicenseTypeIcon}{\ccLogo\xspace}
189
190
       \doclicense@setVersion[3.0]
191
192
       %% Allow to predefine the following macros in ldf files.
193
       \ifcsdef{doclicense@UrlLangPart}{}{%
194
         \ifthenelse{\equal{\doclicense@lang@lic@CC@code}{}}{%
195
196
           \edef\doclicense@UrlLangPart{}
197
         }{%
           \edef\doclicense@UrlLangPart{/deed.\doclicense@lang@lic@CC@code}
198
         }
199
       }
200
201
       \ifcsdef{doclicenseURL}{}{%
         \edef\doclicenseURL{%
202
           \doclicense@baseUrlCC/%
203
204
           licenses/%
           \doclicense@modifier/%
205
           \doclicense@versionUsed\doclicense@UrlLangPart%
206
         }
207
208
       }
209
       \ifthenelse{\equal{\doclicense@modifier}{by}}{%
         \renewcommand{\doclicense@icon}{\ccby}
210
         \renewcommand{\doclicense@imagemodifier}{}
211
212
       }{}
       \ifthenelse{\equal{\doclicense@modifier}{by-sa}}{%
213
214
         \renewcommand{\doclicense@icon}{\ccbysa}
         \renewcommand{\doclicense@imagemodifier}{}
215
216
       }{}
217
       \ifthenelse{\equal{\doclicense@modifier}{by-nd}}{%
         \renewcommand{\doclicense@icon}{\ccbynd}
218
         \renewcommand{\doclicense@imagemodifier}{}
219
       }{}
220
221
       \ifthenelse{\equal{\doclicense@modifier}{by-nc}}{%
222
         \renewcommand{\doclicense@icon}{\ccbync}
223
         \ifthenelse{\equal{\doclicense@imagemodifier}{-eu}}{%
224
           \renewcommand{\doclicense@icon}{\ccbynceu}
         }{}
225
         \ifthenelse{\equal{\doclicense@imagemodifier}{-jp}}{%
226
```

```
\renewcommand{\doclicense@icon}{\ccbyncjp}
227
         }{}
228
         \renewcommand{\doclicense@imagemodifier}{}
229
       }{}
230
       \ifthenelse{\equal{\doclicense@modifier}{by-nc-sa}}{
231
232
         \renewcommand{\doclicense@icon}{\ccbyncsa}
233
         \ifthenelse{\equal{\doclicense@imagemodifier}{-eu}}{%
234
           \renewcommand{\doclicense@icon}{\ccbyncsaeu}
235
         }{}
236
         \ifthenelse{\equal{\doclicense@imagemodifier}{-jp}}{%
           \renewcommand{\doclicense@icon}{\ccbyncsajp}
237
         }{}
238
239
       }{}
       \ifthenelse{\equal{\doclicense@modifier}{by-nc-nd}}{
240
         \renewcommand{\doclicense@icon}{\ccbyncnd}
241
         \ifthenelse{\equal{\doclicense@imagemodifier}{-eu}}{%
242
           \renewcommand{\doclicense@icon}{\ccbyncndeu}
243
         }{}
244
245
         \ifthenelse{\equal{\doclicense@imagemodifier}{-jp}}{%
246
           \renewcommand{\doclicense@icon}{\ccbyncndjp}
         }{}
247
       }{}
248
       \ifthenelse{\equal{\doclicense@modifier}{zero}}{%
249
         \renewcommand{\doclicense@icon}{\cczero}
250
251
         \renewcommand{\doclicense@imagemodifier}{}
252
         \doclicense@setVersion[1.0]
         \edef\doclicenseURL{%
253
           \doclicense@baseUrlCC/%
254
           publicdomain/%
255
           \doclicense@modifier/%
256
           \doclicense@versionUsed\doclicense@UrlLangPart}
257
258
       }{}
259
       \ifthenelse{\equal{\doclicense@modifier}{pd}}{
         \renewcommand{\doclicense@icon}{\ccpd}
260
261
         \renewcommand{\doclicense@imagemodifier}{}
262
         \doclicense@setVersion[1.0]
         \edef\doclicenseURL{%
263
           \doclicense@baseUrlCC/%
264
265
           licenses/publicdomain/%
           \doclicense@versionUsed\doclicense@UrlLangPart}
266
267
       }{}
268
       \ifcsdef{doclicense@lang@lic@\doclicense@type%
269
         @\doclicense@modifier @\doclicense@versionUsed}{}{%
270
271
272
         \PackageError{doclicense}{License long name not defined}%
273
           {%
274
             Please check the documentation of doclicense
275
             to see what you can do about it.%
           }%
276
```

```
}
277
278
279
       \setboolean{doclicense@licenseKnown}{true}
     }{}%% )))
280
     \ifthenelse{\not\boolean{doclicense@licenseKnown}}{%
281
       \PackageError{doclicense}{License unknown}%
282
         {%
283
           Please check the documentation of doclicense
284
285
           to see what you can do about it.%
         }%
286
     }{}%
287
288 }
289 %% )))
290
291 \doclicense@set%
That's it.
292 \endinput
```

# **Change History**

0.07	
0.01	

0.07	missing image and wrote test
General: Initial version $\ldots \ldots \ldots 1$	framework. Added notes about
0.08	how to add translations. Added
General: Added support for CC-	Spanish translation. $\dots \dots 1$
zero and CC-pd and small im-	1.4.0
provements $\ldots \ldots \ldots 1$	$General: Added \verb+ doclicensePlainFullText$
0.09	and \doclicenseFullText
General: Added list of supported li-	macros Thanks to siefkenj for
censes to docu and added option	the help. $\ldots \ldots \ldots \ldots \ldots 1$
imagemodifier. Also renamed	1.4.1
macro $\$ doclicenseLicense to	General: Translation fixes for: fr,
\doclicenseThis $\dots \dots 1$	en-gb. Included missing CC-by-
0.10	nc-nd icon (US dollar). $\dots 1$
General: Added support for hyper-	1.5.0
$\operatorname{xmp}$ 1	General: Allow to change the
1.0	way text is typeset by
General: Removed space before	\doclicenseThis $1$
quotes (Example: "CC " $\rightarrow$	1.6.0
"CC") $\ldots \ldots 1$	General: Added Russian and Italian
1.1	translation. Added 'imagepo-
General: Added support for Cre-	sition' and 'imagedistance' pa-
ative Commons 4.0 and added	rameters. $\ldots \ldots \ldots 1$
\doclicenseImageFileName $1$	1.7.0
1.2	General: Update Russian and Span-
General: Allow \doclicenseModifier	ish translation. Fix issue with
to be used with hyperref. Fixed	unescaped newline causing two
<b>\doclicenseIcon</b> macro, added	spaces between license name

	and 'license' word.	 1
1.7.1		

General: Include .eps versions of

the images to allow using 'latex' with dvi output. Thanks to robertpetry for reporting. . . 1

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Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in roman refer to the code lines where the entry is used.

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