

# The doclicense 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 v1.5.0, dated 2016/04/24.

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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 L<sup>A</sup>T<sub>E</sub>X 2<sub>ε</sub> 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 `pdfcopyright` 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

<b>type</b>	The first parameter is “ <i>type</i> ”. This sets the license type. Like in this example, the type can be “CC” to cover all the Creative Commons licenses. Please make sure that the type is all uppercase. See the <a href="#">Supported licenses</a> section for a complete list.
<b>modifier</b>	The next parameter is “ <i>modifier</i> ” which allows to select different subclasses of a license. In this example it is “by-sa”. Please make sure that the type is all lowercase. See the <a href="#">Supported licenses</a> section for a complete list.
<b>version</b>	As there can be more than one version of a license, the version can also be set.
<b>lang</b>	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 <code>\language</code> which is normally set by packages like <code>babel</code> or <code>polyglossia</code> . Supported languages: English Added by <a href="#">Robin Schneider</a> . French Added by <a href="#">Éric Guirbal</a> . German Added by <a href="#">Robin Schneider</a> . Spanish Added by <a href="#">Carlos</a> .
<b>imagewidth</b>	Default image width for the license image.
<b>imagemodifier</b>	This options was added to support variations in the license images. For example, Creative Commons provides sometimes more than one image for one version. See the <a href="#">download page</a> . You will note that there are <code>by-nc.eu</code> and <code>by-nc</code> which only differ in the money unit. By default the <code>by-nc</code> image would be used but you can change this with: <pre>\usepackage[   imagemodifier={-eu}, ]{doclicense}</pre> 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”.
<b>hyphenation</b>	This option allows you to specify a macro name which is going to be expanded in the minipage environment of <code>\doclicenseThis</code> . That allows you to change the behaviour how <code>\doclicenseLongText</code> is typeset. By default, this option is not enabled. One possible use case is to set the option to “RaggedRight”. This will use the <code>\RaggedRight</code> macro provided by the <code>ragged2e</code> package <sup>1</sup> ) with the intention of limiting the number of hyphenations while still allowing a hyphenation by typesetting <code>\doclicenseLongText</code> as ragged text. The idea of using ragged text is that the <code>\doclicenseLongText</code> is usually one or two full line and one half full line so avoiding hyphenations might look better compared to justified text.

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

“RaggedRight” is also the setting used for this documentation. `\doclicenseThis` did not produce a hyphenation in case of this documentation but  $\TeX$  did fill up the first text line to its full width by adding additional space between words. This has been 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

<code>\doclicenseType</code>	Expands to the type as set in the package options. Example: “CC”
<code>\doclicenseLongType</code>	Same as <code>\doclicenseType</code> except that it expands to the long license type. Example: “Creative Commons”
<code>\doclicenseModifier</code>	Expands to the modifier as set in the package options. Example: “BY-SA”
<code>\doclicenseVersion</code>	Expands to the version as set in the package options. Example: “3.0”
<code>\doclicenseURL</code>	Expands to the official URL about the license. Note that it expands to the raw URL string without the use of <code>\href</code> or similar. If you want the link to be clickable then you can use <code>\href</code> or <code>\url</code> from the <code>hyperref</code> package or just read on because the following macros can also do this for you. Example: “ <a href="https://creativecommons.org/licenses/by-sa/3.0/deed.en">https://creativecommons.org/licenses/by-sa/3.0/deed.en</a> ”
<code>\doclicenseName</code>	Expands to the short name of the license. Example: “CC BY-SA 3.0”
<code>\doclicenseLongName</code>	Expands to the long name of the license. Example: “Creative Commons Attribution-ShareAlike 3.0 Unported”
<code>\doclicenseNameRef</code>	Same as <code>\doclicenseName</code> except that it links to the URL of the license. Example: “ <a href="#">CC BY-SA 3.0</a> ”
<code>\doclicenseLongNameRef</code>	Same as <code>\doclicenseLongName</code> except that it links to the URL of the license. Example: “ <a href="#">Creative Commons Attribution-ShareAlike 3.0 Unported</a> ”
<code>\doclicenseText</code>	Expands to a localized text which states that this document is licensed under the license. Example: “This work is licensed under a ‘ <a href="#">CC BY-SA 3.0</a> ’ license.”
<code>\doclicenseLongText</code>	Same as <code>\doclicenseText</code> except that it uses the long name of the license. Example: “This work is licensed under a <a href="#">Creative Commons ‘Attribution-ShareAlike 3.0 Unported’</a> license.”
<code>\doclicensePlainFullText</code>	Verbatim prints the full license text. An example can be found in the <a href="#">Plaintext license text</a> section.
<code>\doclicensePlainFullTextFileName</code>	Expands to the file name which the <code>\doclicensePlainFullTextFileName</code> macro uses to <code>\input</code> the license text file.
<code>\doclicenseFullText</code>	Nicely prints the full license text. An example can be found in the <a href="#">Pretty license text</a> section.

<code>\doclicenseFullTextFileName</code>	Expands to the file name which the <code>\doclicenseFullText</code> macro uses to <code>\input</code> the license text file.
<code>\doclicenseIcon</code>	Expands to a icon of the license. Example: “  ”. This macro is based on the <code>ccicons</code> package.
<code>\doclicenseTypeIcon</code>	Expands to a icon of the license type. Example: “  ”. This macro is based on the <code>ccicons</code> package.
<code>\doclicenseImage</code>	This is kind of similar to <code>\doclicenseIcon</code> but it will typeset an bigger pictogram



of the license. Example: “

Note that you can change the image size with the `[<imagewidth>]` parameter like this: “  ”

`\doclicenseImage[imagewidth=2em]`

The images are bundled with the `doclicensepackage` as vector graphics.

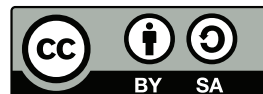
`\doclicenseImageFileName` This macro expands to the file name of the image which the `\doclicenseImage` typesets. You can use this file name with `\includegraphics` if you need more flexibility over how the image is typeset.

The current file name is: “`doclicense-CC-by-sa`”

You do not have to worry about the file path. Normally your  $\text{\LaTeX}$  environment will find the image for you.

`\doclicenseThis` 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:

This work is licensed under a **Creative Commons**  
“**Attribution-ShareAlike 3.0 Unported**” license.



## 5 Supported licenses

### 5.1 CC (Creative commons)

<code>zero@1.0</code>	CC0 1.0 Universal
<code>pd@1.0</code>	Copyright-Only Dedication
<code>by@3.0</code>	Attribution 3.0 Unported
<code>by-sa@3.0</code>	Attribution-ShareAlike 3.0 Unported
<code>by-nd@3.0</code>	Attribution-NoDerivs 3.0 Unported
<code>by-nc@3.0</code>	Attribution-NonCommercial 3.0 Unported
<code>by-nc-sa@3.0</code>	Attribution-NonCommercial-ShareAlike 3.0 Unported
<code>by-nc-nd@3.0</code>	Attribution-NonCommercial-NoDerivs 3.0 Unported
<code>by@4.0</code>	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.

Creative Commons Legal Code

Attribution-ShareAlike 3.0 Unported

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## 8 Pretty license text

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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[10em]{imagewidth}
9 \DeclareStringOption{hyphenation}
10 %% )))
11
```

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.

```
12 \ProcessLocalKeyvalOptions*
13
```

### 10.2 Dependencies

```
14 %% Dependencies (((
15 \RequirePackage{xifthen}
16 \RequirePackage{etoolbox} %% \ifcsdef
17 \RequirePackage{xspace}
18 \RequirePackage{verbatim}
19 \ifthenelse{
20   \equal{\doclicense@hyphenation}{}}
21 }{{}%
22   \RequirePackage{ragged2e}
23 }
24 \ifthenelse{\isnamedefined{\doclicense@hyphenation}}{ }{{}%
25   \PackageError{doclicense}{Hyphenation macro not defined}
26     {The macro name given via the hyphenation option is not defined.}%
27 }
28 }
29 \AtEndPreamble{%
30   \@ifpackageloaded{csquotes}{}{\RequirePackage{csquotes}}
31   \@ifpackageloaded{ccicons}{}{\RequirePackage{ccicons}}
32   %% For \doclicenseIcon
33   \@ifpackageloaded{graphicx}{}{\RequirePackage{graphicx}}
34   %% For \doclicenseImage
35   \@ifpackageloaded{hyperref}{}{\RequirePackage{hyperref}}
36   \@ifpackageloaded{hyperxmp}{%
37     %% The following options are only defined when the hyperxmp package was loaded.
38     \hypersetup{
39       pdfcopyright = {\doclicenseLongText},
40       pdflicenseurl = {\doclicenseURL},

```

```

41   }
42   {}
43 }
44 %% )))
45

```

### 10.3 Declare variables and macros

```

46 %% Declare variables (((
47 \newcommand{\doclicense@baseUrlCC}{https://creativecommons.org}
48 \newcommand{\doclicense@versionFallback}{}
49 \newcommand{\doclicense@versionUsed}{}
50 \newboolean{\doclicense@licenseKnown}
51 \newlength{\doclicense@hsize}
52 \newcommand{\doclicense@longName}{%
53   \@nameuse{\doclicense@lang@lic@\doclicense@type @\doclicense@modifier%
54     @\doclicense@versionUsed}%
55 }
56 \newcommand{\doclicense@icon}{%
57   \PackageError{\doclicense}{Icon not defined}
58     {Please check the documentation of doclicense to see what you can do about it.}%
59 }
60 \newcommand{\doclicense@modifier@uppercase}{\texorpdfstring{%
61   \MakeUppercase{\doclicense@modifier}%
62 }{%
63   \doclicense@modifier}%
64 }
65 %% )))
66

```

### 10.4 Macro user macros

```

67 %% User macros (((
68 \newcommand{\doclicenseType}{\doclicense@type\xspace}
69 \newcommand{\doclicenseLongType}{}
70 \newcommand{\doclicenseModifier}{\doclicense@modifier@uppercase\xspace}
71 \newcommand{\doclicenseVersion}{\doclicense@versionUsed\xspace}
72 \newcommand{\doclicenseName}{%
73   \doclicense@type\nobreakspace\doclicense@modifier@uppercase\nobreakspace%
74   \doclicense@versionUsed\xspace%
75 }
76 \newcommand{\doclicenseNameRef}{\href{\doclicenseURL}{\doclicenseName}\xspace}
77 \newcommand{\doclicenseLongName}{\doclicenseLongType\xspace%
78   \doclicense@longName\xspace}
79 \newcommand{\doclicenseLongNameRef}{\href{\doclicenseURL}{\doclicenseLongName}}
80 \newcommand{\doclicenseText}{%
81   \doclicense@lang@thisDoc\xspace
82   \href{\doclicenseURL}{\enquote{\doclicenseName{}}}
83   \doclicense@lang@word@license.\xspace%
84 }
85 \newcommand{\doclicenseLongText}{%

```



```

86 \doclicense@lang@thisDoc\space
87 \href{\doclicenseURL}{\doclicenseLongType\space\enquote{\doclicense@longName}}%
88 \doclicense@lang@word@license.\xspace%
89 }
90 \newcommand{\doclicenseIcon}{\doclicense@icon\xspace}
91 \newcommand{\doclicenseTypeIcon}{\doclicenseType}
92 % \newcommand{\doclicenseModifierIcon}{} %% Not directly provided by ccicons.
93 \newcommand{\doclicenseImageFileName}{%
94   doclicense-\doclicense@type-\doclicense@modifier\doclicense@imagemodifier}
95 \newcommand{\doclicenseImage}[1] []{%
96   \setkeys{doclicense}{#1}
97   \href{\doclicenseURL}{%
98     \includegraphics[
99       width=\doclicense@imagewidth%
100     ]{\doclicenseImageFileName}%
101   }
102 }
103 \newcommand{\doclicensePlainFullTextFileName}{%
104   doclicense-\doclicense@type-\doclicense@modifier%
105   -\doclicense@versionUsed-plaintext
106 }
107 \newcommand{\doclicensePlainFullText}{%
108   \verbatiminput{\doclicensePlainFullTextFileName}
109 }
110 \newcommand{\doclicenseFullTextFileName}{%
111   doclicense-\doclicense@type-\doclicense@modifier-\doclicense@versionUsed-latex}
112 \newcommand{\doclicenseFullText}{\input{\doclicenseFullTextFileName}}
113
114 \newcommand{\doclicenseLicense}{\doclicenseThis} %% legacy support
115 \newcommand{\doclicenseThis}{%
116   \setlength{\doclicense@hsize}{\textwidth-\doclicense@imagewidth-2em}%
117   % \ifthenelse{\isnamedefined{iflandscape}}{%
118   %   \iflandscape{%
119   %     \setlength{\doclicense@hsize}{\doclicense@hsize-10em}%
120   %   }{}%
121   % }{}%
122   % {%
123   \begin{center}
124     \begin{minipage}{\doclicense@hsize}
125       \ifthenelse{\isempty{\doclicense@hyphenation}}{}{%
126         \@nameuse{\doclicense@hyphenation}%
127       }%
128       \doclicenseLongText%
129     \end{minipage}
130     \hfill
131     \begin{minipage}{\doclicense@imagewidth}
132       \doclicenseImage%
133     \end{minipage}
134   \end{center}
135   % }

```

```

136 }
137 %% )))
138

```

## 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.

```

139 %% Language support (((
140 \ifthenelse{\equal{\doclicense@lang}{}}{%
141   \renewcommand{\doclicense@lang}{\language}{}
142   \IfFileExists{\doclicense-\doclicense@lang.ldf}{%
143     \input{\doclicense-\doclicense@lang.ldf}
144   }{%
145     \PackageWarning{\doclicense}{%
146       No language definition for \doclicense@lang found.
147       Please add one and submit a patch. Using English as fallback.}
148     \renewcommand{\doclicense@lang}{english}
149     \input{\doclicense-\doclicense@lang.ldf}
150   }
151 \ifthenelse{\equal{\doclicense@imagemodifier}{-us}}{%
152   \@namedef{\doclicense@imagemodifier}{}
153 }{}
154
155 %% )))
156

```

## 10.6 Internals

```

157 %% Set license (((
158 \newcommand{\doclicense@setVersion}[1][]{%
159   \ifthenelse{\equal{#1}{}}{}{%
160     \renewcommand{\doclicense@versionFallback}{#1}
161   }
162   \ifthenelse{\equal{\doclicense@version}{}}{%
163     \renewcommand{\doclicense@versionUsed}{\doclicense@versionFallback}
164   }{%
165     \renewcommand{\doclicense@versionUsed}{\doclicense@version}
166   }
167 }
168 \newcommand{\doclicense@set}{%
169   %% CC (((
170   \ifthenelse{\equal{\doclicense@type}{CC}}{%
171     \renewcommand{\doclicenseLongType}{Creative Commons\space}
172     \renewcommand{\doclicenseTypeIcon}{ccLogo\space}
173
174     \doclicense@setVersion[3.0]
175
176     %% Allow to predefine the following macros in ldf files.

```

```

177 \ifcsdef{doclicense@UrlLangPart}{}{%
178   \ifthenelse{\equal{\doclicense@lang@lic@CC@code}{}}{%
179     \edef\doclicense@UrlLangPart{}
180   }{%
181     \edef\doclicense@UrlLangPart{/deed.\doclicense@lang@lic@CC@code}
182   }
183 }
184 \ifcsdef{doclicenseURL}{}{%
185   \edef\doclicenseURL{%
186     \doclicense@baseUrLCC/%
187     licenses/%
188     \doclicense@modifier/%
189     \doclicense@versionUsed\doclicense@UrlLangPart%
190   }
191 }
192 \ifthenelse{\equal{\doclicense@modifier}{by}}{%
193   \renewcommand{\doclicense@icon}{\ccby}
194   \renewcommand{\doclicense@imagemodifier}{}
195 }{}
196 \ifthenelse{\equal{\doclicense@modifier}{by-sa}}{%
197   \renewcommand{\doclicense@icon}{\ccbysa}
198   \renewcommand{\doclicense@imagemodifier}{}
199 }{}
200 \ifthenelse{\equal{\doclicense@modifier}{by-nd}}{%
201   \renewcommand{\doclicense@icon}{\ccbynd}
202   \renewcommand{\doclicense@imagemodifier}{}
203 }{}
204 \ifthenelse{\equal{\doclicense@modifier}{by-nc}}{%
205   \renewcommand{\doclicense@icon}{\ccbync}
206   \ifthenelse{\equal{\doclicense@imagemodifier}{-eu}}{%
207     \renewcommand{\doclicense@icon}{\ccbynceu}
208   }{}
209   \ifthenelse{\equal{\doclicense@imagemodifier}{-jp}}{%
210     \renewcommand{\doclicense@icon}{\ccbyncjp}
211   }{}
212   \renewcommand{\doclicense@imagemodifier}{}
213 }{}
214 \ifthenelse{\equal{\doclicense@modifier}{by-nc-sa}}{
215   \renewcommand{\doclicense@icon}{\ccbyncsa}
216   \ifthenelse{\equal{\doclicense@imagemodifier}{-eu}}{%
217     \renewcommand{\doclicense@icon}{\ccbyncsaeu}
218   }{}
219   \ifthenelse{\equal{\doclicense@imagemodifier}{-jp}}{%
220     \renewcommand{\doclicense@icon}{\ccbyncsajp}
221   }{}
222 }{}
223 \ifthenelse{\equal{\doclicense@modifier}{by-nc-nd}}{
224   \renewcommand{\doclicense@icon}{\ccbyncnd}
225   \ifthenelse{\equal{\doclicense@imagemodifier}{-eu}}{%
226     \renewcommand{\doclicense@icon}{\ccbyncnde}

```

```

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

```

That's it.

## Change History

0.07		\doclicenseImageFileName ... 1
General: Initial version	1	1.2
0.08		General: Allow \doclicenseModifier to be used with hyperref. Fixed \doclicenseIcon macro, added missing image and wrote test framework. Added notes about how to add translations. Added Spanish translation. .... 1
General: Added support for CC-zero and CC-pd and small improvements	1	
0.09		1.4.0
General: Added list of supported licenses to docu and added option imagemodifier. Also renamed macro \doclicenseLicense to \doclicenseThis	1	General: Added \doclicensePlainFullText and \doclicenseFullText macros Thanks to siefkenj for the help. .... 1
0.10		1.4.1
General: Added support for hyper-xmp	1	General: Translation fixes for: fr, en-gb. Included missing CC-by-nc-nd icon (US dollar). .... 1
1.0		1.5.0
General: Removed space before quotes (Example: “CC ” → “CC”) ...	1	General: Allow to change the way text is typeset by \doclicenseThis. .... 1
1.1		
General: Added support for Creative Commons 4.0 and added		

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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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