

# The doclicense package\*

Robin Schneider  
[ypid@riseup.net](mailto:ypid@riseup.net)

February 6, 2015

## Abstract

Make it easy to set your documents under a certain 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>

## Contents

<b>Abstract</b>	<b>1</b>
<b>1 Introduction</b>	<b>2</b>
<b>2 Usage</b>	<b>2</b>
<b>3 Macros</b>	<b>2</b>
<b>4 Contributing</b>	<b>3</b>
<b>5 Implementation</b>	<b>4</b>
5.1 Declaring the options . . . . .	4
5.2 Declare variables and macros . . . . .	4
5.3 Macro user macros . . . . .	5
5.4 Language selection . . . . .	6
5.5 Internals . . . . .	6

---

\*This document corresponds to doclicense v0.8, dated 2015/02/06.

# 1 Introduction

Make it easy to set your documents under a certain license.

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 placing

```
\usepackage{doclicense}
```

in the preamble of your  $\text{\LaTeX 2}_{\epsilon}$  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:



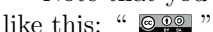
```
\usepackage[
  type={CC},
  modifier={by-sa},
  version={3.0},
]{doclicense}
```

This will explicitly set the license to **CC by-sa 3.0**.

<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.
<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”.
<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>\languagename</code> which is normally set by packages like <code>babel</code> or <code>polyglossia</code> . Currently only English and German are supported.
<b>imagewidth</b>	Default image width for the license image.

# 3 Macros

<code>\doclicenseType</code>	Expands to the type as set in the package options. For this document this macro expands to: “CC”
<code>\doclicenseLongType</code>	Same as <code>\doclicenseType</code> expect that it expands to the long license type. For this document, it looks like this: “Creative Commons”
<code>\doclicenseModifier</code>	Expands to the modifier as set in the package options. For this document this macro expands to: “BY-SA”

<code>\doclicenseVersion</code>	Expands to the version as set in the package options. For this document this macro expands to: “3.0”
<code>\doclicenseName</code>	Expands to the short name of the license. For this document this macro expands to: “CC by-sa 3.0”
<code>\doclicenseLongName</code>	Expands to the long name of the license. For this document this macro expands to: “Creative Commons Attribution-ShareAlike 3.0 Unported”
<code>\doclicenseNameRef</code>	Same as <code>\doclicenseName</code> expect that it links to the URL of the license. For this document, it looks like this: “ <a href="#">CC by-sa 3.0</a> ”
<code>\doclicenseLongNameRef</code>	Same as <code>\doclicenseLongName</code> expect that it links to the URL of the license. For this document, it looks like this: “ <a href="#">Creative Commons Attribution-ShareAlike 3.0 Unported</a> ”
<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. For this document the macro expands to: “ <a href="https://creativecommons.org/licenses/by-sa/3.0">https://creativecommons.org/licenses/by-sa/3.0</a> ”
<code>\doclicenseText</code>	Expands to a localized text which states that this document is licensed under the license. For this document this macro expands to: “This work is licensed under a ‘ <a href="#">CC by-sa 3.0</a> ’ license.”
<code>\doclicenseIcon</code>	Expands to a icon of the license. For this document this macro expands to: “  ”. This macro is based on the <code>ccicons</code> package.
<code>\doclicenseImage</code>	This is kind of similar with <code>\doclicenseIcon</code> but it will typeset an bigger pictogram of the license. For this document this macro expands to:  “  ”
<code>\doclicenseLicense</code>	The images are bundled with the <code>doclicense</code> package. And last but not least there is the <code>\doclicenseLicense</code> macro which will typeset the <code>\doclicenseText</code> next to the <code>\doclicenseImage</code> in a “minipage” environment. This will look like the following.

This work is licensed under a [Creative Commons](#)  
[“Attribution-ShareAlike 3.0 Unported”](#) license.



## 4 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.

## 5 Implementation

This package depends on these packages.

```
1
2 %% Dependencies {{{
3 \RequirePackage{kvoptions}
4 \RequirePackage{xifthen}
5 \RequirePackage{etoolbox} %% \ifcsdef
6 \RequirePackage{xspace}
7 \AtEndPreamble{%
8   \@ifpackageloaded{csquotes}{\RequirePackage{csquotes}}
9   \@ifpackageloaded{ccicons}{\RequirePackage{ccicons}}
10   %% For \doclicenseIcon
11   \@ifpackageloaded{graphicx}{\RequirePackage{graphicx}}
12   %% For \doclicenseImage
13   \@ifpackageloaded{hyperref}{\RequirePackage{hyperref}}
14 }
15 %% }}}
16
```

### 5.1 Declaring the options

```
17 %% Parameters {{{
18 \DeclareStringOption[CC]{type}
19 \DeclareStringOption[by-sa]{modifier}
20 \DeclareStringOption{version}
21 \DeclareStringOption{lang}
22 \DeclareStringOption[10em]{imagewidth}
23 %% }}}
24
```

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.

```
25 \ProcessLocalKeyvalOptions*
```

### 5.2 Declare variables and macros

```
26 %% Declare variables {{{
27 \newcommand{\doclicense@baseUrlCC}{https://creativecommons.org}
28 \newcommand{\doclicense@versionFallback}{}
29 \newcommand{\doclicense@versionUsed}{}
30 \newboolean{doclicense@licenseKnown}
31 \newlength{\doclicense@hsize}
32 \newcommand{\doclicense@longName}{%
33   \csname doclicense@lang@lic@doclicense@type @doclicense@modifier @doclicense@versionUsed\
34 }
35 \newcommand{\doclicense@icon}{%
36   \PackageError{doclicense}{Icon not defined}
37   {Please check the documentation of doclicense to see what you can do about it.}%
38 }
```

```

39 %% }}}
40

```

### 5.3 Macro user macros

```

41 %% User macros {{{
42 \newcommand{\doclicenseType}{\doclicense@type\xspace}
43 \newcommand{\doclicenseLongType}{\doclicense@longType\xspace}
44 \newcommand{\doclicenseModifier}{\MakeUppercase{\doclicense@modifier}\xspace}
45 \newcommand{\doclicenseVersion}{\doclicense@versionUsed\xspace}
46 \newcommand{\doclicenseName}{\doclicense@type~\doclicense@modifier~\doclicense@versionUsed\xspace}
47 \newcommand{\doclicenseNameRef}{\href{\doclicenseURL}{\doclicenseName}\xspace}
48 \newcommand{\doclicenseLongName}{\doclicenseLongType\space\doclicense@longName\xspace}
49 \newcommand{\doclicenseLongNameRef}{\href{\doclicenseURL}{\doclicenseLongName}\xspace}
50 \newcommand{\doclicenseText}{\doclicense@lang@thisDoc\space
51 \doclicense@lang@word@license.\xspace}
52 \newcommand{\doclicenseURL}{\doclicense@lang@word@license.\xspace}
53 }
54 \newcommand{\doclicenseLongText}{\doclicense@lang@thisDoc\space
55 \doclicense@lang@word@license.\xspace}
56 \newcommand{\doclicenseImage}{\doclicense@img@width\xspace}
57 \newcommand{\doclicenseIcon}{\doclicense@icon\xspace}
58 }
59 \newcommand{\doclicenseImage}[1][\doclicense@img@width\xspace]{}
60 \setkeys{doclicense}{#1}
61 \newcommand{\doclicenseImage}[1][\doclicense@img@width\xspace]{}
62 \includegraphics[width=\doclicense@img@width]{\doclicense@img@width\xspace}
63 {doclicense-\doclicense@type-\doclicense@modifier}%
64 }
65 }
66 }
67
68 \newcommand{\doclicenseLicense}{
69 \setlength{\doclicense@hsize}{\textwidth-\doclicense@img@width-2em}
70 \ifthenelse{\lengthtest{\hsize > \vsize}}{\% landscape
71 \setlength{\doclicense@hsize}{\doclicense@hsize-10em}
72 }{}
73 \begin{center}
74 \begin{minipage}{\doclicense@hsize}
75 \doclicenseLongText%
76 \end{minipage}
77 \hfill
78 \begin{minipage}{\doclicense@img@width}
79 \doclicenseImage%
80 \end{minipage}
81 \end{center}
82 }
83 %% }}}
84

```

## 5.4 Language selection

The following lines include the ldf files. All language dependent things should be stored there or can be changed there. Note that one could redefine macros like `\doclicenseLongText` if necessary.

```
85 %% Language support {{{
86 \ifthenelse{\equal{\doclicense@lang}{}}{%
87   \renewcommand{\doclicense@lang}{\language}{}
88 \IfFileExists{doclicense-\doclicense@lang.ldf}{%
89   \input{doclicense-\doclicense@lang.ldf}
90 }{%
91   \PackageWarning{doclicense}{No language definition for \doclicense@lang not found. Please add
92   \renewcommand{\doclicense@lang}{english}
93   \input{doclicense-\doclicense@lang.ldf}
94 }
95
96 %% }}}
97
```

## 5.5 Internals

```
98 %% Set license {{{
99 \newcommand{\doclicense@setVersion}[1][]{%
100   \ifthenelse{\equal{#1}{}}{}{%
101     \renewcommand{\doclicense@versionFallback}{#1}
102   }
103   \ifthenelse{\equal{\doclicense@version}{}}{%
104     \renewcommand{\doclicense@versionUsed}{\doclicense@versionFallback}
105   }{%
106     \renewcommand{\doclicense@versionUsed}{\doclicense@version}
107   }
108 }
109 \newcommand{\doclicense@set}{%
110   %% CC {{{
111   \ifthenelse{\equal{\doclicense@type}{CC}}{%
112     \renewcommand{\doclicenseLongType}{Creative Commons\space}
113
114     \ifthenelse{\equal{\doclicense@lang@lic@CC@code}{}}{%
115       \edef\doclicense@UrlLangPart{}
116     }{%
117       \edef\doclicense@UrlLangPart{/ \doclicense@lang@lic@CC@code}
118     }
119     \doclicense@setVersion[3.0]
120     \edef\doclicenseURL{%
121       \doclicense@baseUrlCC/%
122       licenses/%
123       \doclicense@modifier/%
124       \doclicense@versionUsed\doclicense@UrlLangPart}
125   \ifthenelse{\equal{\doclicense@modifier}{by-sa}}{
```

```

126     {\renewcommand{\doclicense@icon}{\ccbysa}}{}
127 \ifthenelse{\equal{\doclicense@modifier}{by-nd}}
128     {\renewcommand{\doclicense@icon}{\ccbbynd}}{}
129 \ifthenelse{\equal{\doclicense@modifier}{by-nc}}
130     {\renewcommand{\doclicense@icon}{\ccbbync}}{}
131 \ifthenelse{\equal{\doclicense@modifier}{by-nc-sa}}
132     {\renewcommand{\doclicense@icon}{\ccbbync}}{}
133 \ifthenelse{\equal{\doclicense@modifier}{by-nc-nd}}
134     {\renewcommand{\doclicense@icon}{\ccbbync}}{}
135 \ifthenelse{\equal{\doclicense@modifier}{zero}}{%
136     \renewcommand{\doclicense@icon}{\cczero}
137     \doclicense@setVersion[1.0]
138     \edef\doclicenseURL{%
139         \doclicense@baseUrlCC/%
140         publicdomain/%
141         \doclicense@modifier/%
142         \doclicense@versionUsed\doclicense@UrlLangPart}
143     }{}
144 \ifthenelse{\equal{\doclicense@modifier}{pd}}{
145     \renewcommand{\doclicense@icon}{\ccpd}
146     \doclicense@setVersion[1.0]
147     \edef\doclicenseURL{%
148         \doclicense@baseUrlCC/%
149         licenses/publicdomain/%
150         \doclicense@versionUsed\doclicense@UrlLangPart}
151     }{}
152
153 \ifcsdef{doclicense@lang@lic@\doclicense@type%
154     @\doclicense@modifier @\doclicense@versionUsed}{%{}%
155
156     \PackageError{doclicense}{License long name not defined}%
157     {Please check the documentation of doclicense to see what you can do about it.}%
158 }
159
160 \setboolean{doclicense@licenseKnown}{true}
161 }{}% }}
162 \ifthenelse{\not\boolean{doclicense@licenseKnown}}{%
163     \PackageError{doclicense}{License unknown}%
164     {Please check the documentation of doclicense to see what you can do about it.}%
165 }{}%
166 }
167 %% }}}
168
169 \doclicense@set%

```

That's it.

```

170 \endinput

```

## Change History

0.7	zero and CC-pd and small im-
General: Initial version	provements
0.8	
General: Added support for CC-	

## Index

Numbers written in *italics* 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.

<b>Symbols</b>	<code>\doclicense@lang@word@license</code>	<code>\doclicenseLongText</code>
<code>\@ifpackageloaded</code>	..... 52, 57	..... 54, 75
..... 8, 9, 11, 13	<code>\doclicense@longName</code>	<code>\doclicenseLongType</code>
	..... 32, 48, 56	.. 2, 43, 48, 56, 112
<b>A</b>	<code>\doclicense@modifier</code>	<code>\doclicenseModifier</code>
<code>\AtEndPreamble</code>	..... 33, 44, 46, 64,	..... 2, 44
	123, 125, 127,	<code>\doclicenseName</code>
	129, 131, 133,	..... 2, 46, 47, 52
<b>C</b>	135, 141, 144, 154	<code>\doclicenseNameRef</code>
<code>\ccbync</code>	..... 109, 169	2, 47
<code>\ccbynd</code>	<code>\doclicense@set</code>	<code>\doclicenseText</code>
..... 128	<code>\doclicense@setVersion</code>	.. 2, 50
<code>\ccbysa</code>	.. 99, 119, 137, 146	<code>\doclicenseType</code>
..... 126	<code>\doclicense@type</code>	.. 2, 42
<code>\ccpd</code>	33,	<code>\doclicenseURL</code>
..... 145	42, 46, 64, 111, 153	.. 2, 47, 49, 52,
<code>\cczero</code>	<code>\doclicense@urlLangPart</code>	56, 62, 120, 138, 147
..... 136	..... 115,	<code>\doclicenseVersion</code>
<code>\csname</code>	117, 124, 142, 150	2, 45
..... 33	<code>\doclicense@version</code>	
	..... 103, 106	<b>E</b>
<b>D</b>	<code>\doclicense@versionFallback</code>	<code>\endcsname</code>
<code>\doclicense@baseUrlCC</code>	..... 28, 101, 104	..... 33
.. 27, 121, 139, 148	<code>\doclicense@versionUsed</code>	<code>\enquote</code>
<code>\doclicense@hsize</code>	..... 29, 33,	..... 52, 56
..... 31, 69, 71, 74	45, 46, 104, 106,	
<code>\doclicense@icon</code>	124, 142, 150, 154	<b>H</b>
..... 35, 59,	<code>\doclicenseIcon</code>	<code>\hfill</code>
126, 128, 130,	3, 10, 59	..... 77
132, 134, 136, 145	<code>\doclicenseImage</code>	<code>\href</code>
<code>\doclicense@imagewidth</code>	..... 3, 12, 60, 79	.. 47, 49, 52, 56, 62
..... 63, 69, 78	<code>\doclicenseLicense</code>	<code>\hsize</code>
<code>\doclicense@lang</code>	3, 68	..... 70
..... 86, 87,	<code>\doclicenseLongName</code>	
88, 89, 91, 92, 93	..... 2, 48, 49	<b>I</b>
<code>\doclicense@lang@lic@CC@code</code>	<code>\doclicenseLongNameRef</code>	<code>\ifcsdef</code>
..... 114, 117	..... 2, 49	..... 5, 153
<code>\doclicense@lang@thisDoc</code>		<code>\ifFileExists</code>
..... 51, 55		..... 88
		<code>\includegraphics</code>
		.. 63
		<code>\input</code>
		..... 89, 93
		<b>L</b>
		<code>\languageName</code>
		..... 87
		<code>\lengthtest</code>
		..... 70



M	S	V
\MakeUppercase . . . . . 44	\setboolean . . . . . 160	\vsize . . . . . 70
N	\setkeys . . . . . 61	
\newboolean . . . . . 30	\setlength . . . . . 69, 71	
\newlength . . . . . 31	\space . . . 48, 51, 55, 56	X
P		\xspace . . . . . 42,
\PackageError . . . . .	T	44, 45, 46, 47,
. . . . . 36, 156, 163	\textwidth . . . . . 69	48, 52, 57, 59, 112