

The doclicense package*

Robin Schneider
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

Abstract	1
1 Introduction	2
2 Usage	2
3 Macros	3
4 Supported licenses	4
4.1 Creative commons	4
5 Contributing	4
6 Implementation	5
6.1 Declaring the options	5
6.2 Declare variables and macros	5
6.3 Macro user macros	6
6.4 Language selection	7
6.5 Internals	7

*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](#).

type	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.
modifier	The next parameter is “ <i>modifier</i> ” which allows to select different subclasses of a license. In this example it is “by-sa”.
version	As there can be more than one version of a license, the version can also be set.
lang	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> . Currently only English and German are supported.
imagewidth	Default image width for the license image.
imagemodifier	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 download page . You will note that there are by-nc.eu and by-nc which differs in the money unit. By default the by-nc image would be used but you can change this:

```
\usepackage[imagemodifier={-eu}]{romanbarpagenumber}
```

“eu” is the default for the German language.

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: “ CC by-sa 3.0 ”
<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: “ Creative Commons Attribution-ShareAlike 3.0 Unported ”
<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: “ https://creativecommons.org/licenses/by-sa/3.0 ”
<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 ‘ CC by-sa 3.0 ’ 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:  “  ” Note that you can change the image size with the [<i>imagewidth</i>] parameter like this: “  ” The images are bundled with the <code>doclicense</code> package.
<code>\doclicenseLicense</code>	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 Supported licenses

4.1 Creative commons

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
zero@1.0	CC0 1.0 Universal
pd@1.0	Copyright-Only Dedication

5 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.

6 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
```

6.1 Declaring the options

```
17 %% Parameters {{{
18 \DeclareStringOption[CC]{type}
19 \DeclareStringOption[by-sa]{modifier}
20 \DeclareStringOption{version}
21 \DeclareStringOption{lang}
22 \DeclareStringOption{imagemodifier}
23 \DeclareStringOption[10em]{imagewidth}
24 %% }}}
25
```

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.

```
26 \ProcessLocalKeyvalOptions*
```

6.2 Declare variables and macros

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

```

```

39 }
40 %% }}}
41

```

6.3 Macro user macros

```

42 %% User macros {{{
43 \newcommand{\doclicenseType}{\doclicense@type\xspace}
44 \newcommand{\doclicenseLongType}{}
45 \newcommand{\doclicenseModifier}{\MakeUppercase{\doclicense@modifier}\xspace}
46 \newcommand{\doclicenseVersion}{\doclicense@versionUsed\xspace}
47 \newcommand{\doclicenseName}{\doclicense@type~\doclicense@modifier~\doclicense@versionUsed\xspace}
48 \newcommand{\doclicenseNameRef}{\href{\doclicenseURL}{\doclicenseName}\xspace}
49 \newcommand{\doclicenseLongName}{\doclicenseLongType\space\doclicense@longName\xspace}
50 \newcommand{\doclicenseLongNameRef}{\href{\doclicenseURL}{\doclicenseLongName}}
51 \newcommand{\doclicenseText}{%
52   \doclicense@lang@thisDoc\space
53   \href{\doclicenseURL}{\enquote{\doclicenseName}} \doclicense@lang@word@license.\xspace
54 }
55 \newcommand{\doclicenseLongText}{%
56   \doclicense@lang@thisDoc\space
57   \href{\doclicenseURL}{\doclicenseLongType\space\enquote{\doclicense@longName}}
58   \doclicense@lang@word@license.\xspace
59 }
60 \newcommand{\doclicenseIcon}{\doclicense@icon\xspace}
61 \newcommand{\doclicenseImage}[1] []{%
62   \setkeys{doclicense}{#1}
63   \href{\doclicenseURL}{%
64     \includegraphics[width=\doclicense@imagewidth]%
65       {doclicense-\doclicense@type-\doclicense@modifier\doclicense@imagemodifier}%
66   }
67 }
68
69 \newcommand{\doclicenseLicense}{
70   \setlength{\doclicense@hsize}{\textwidth-\doclicense@imagewidth-2em}
71   \ifthenelse{\lengthtest{\hsize > \vsize}}{%% landscape
72     \setlength{\doclicense@hsize}{\doclicense@hsize-10em}
73   }{}
74   \begin{center}
75     \begin{minipage}{\doclicense@hsize}
76       \doclicenseLongText%
77     \end{minipage}
78     \hfill
79     \begin{minipage}{\doclicense@imagewidth}
80       \doclicenseImage%
81     \end{minipage}
82   \end{center}
83 }
84 %% }}}
85

```

6.4 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.

```
86 %% Language support {{{
87 \ifthenelse{\equal{\doclicense@lang}{}}{%
88   \renewcommand{\doclicense@lang}{\language}{}
89 \IfFileExists{\doclicense-\doclicense@lang.ldf}{%
90   \input{\doclicense-\doclicense@lang.ldf}
91 }{%
92   \PackageWarning{\doclicense}{No language definition for \doclicense@lang not found. Please add
93   \renewcommand{\doclicense@lang}{english}
94   \input{\doclicense-\doclicense@lang.ldf}
95 }
96
97 %% }}}
98
```

6.5 Internals

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

```

127     \renewcommand{\doclicense@icon}{\ccbysa}
128     \renewcommand{\doclicense@imagemodifier}{}
129 }{}
130 \ifthenelse{\equal{\doclicense@modifier}{by-nd}}{%
131     \renewcommand{\doclicense@icon}{\ccbynd}
132     \renewcommand{\doclicense@imagemodifier}{}
133 }{}
134 \ifthenelse{\equal{\doclicense@modifier}{by-nc}}{%
135     \renewcommand{\doclicense@icon}{\ccbync}
136     \renewcommand{\doclicense@imagemodifier}{}
137 }{}
138 \ifthenelse{\equal{\doclicense@modifier}{by-nc-sa}}
139 {
140     \renewcommand{\doclicense@icon}{\ccbync}{}
141 }
142 \ifthenelse{\equal{\doclicense@modifier}{by-nc-nd}}
143 {
144     \renewcommand{\doclicense@icon}{\ccbync}{}
145 }
146 \ifthenelse{\equal{\doclicense@modifier}{zero}}{%
147     \renewcommand{\doclicense@icon}{\cczero}
148     \renewcommand{\doclicense@imagemodifier}{}
149 }
150 \doclicense@setVersion[1.0]
151 \edef\doclicenseURL{%
152     \doclicense@baseUrlCC/%
153     publicdomain/%
154     \doclicense@modifier/%
155     \doclicense@versionUsed\doclicense@UrlLangPart}
156 }{}
157 \ifthenelse{\equal{\doclicense@modifier}{pd}}{
158     \renewcommand{\doclicense@icon}{\ccpd}
159     \renewcommand{\doclicense@imagemodifier}{}
160 }
161 \doclicense@setVersion[1.0]
162 \edef\doclicenseURL{%
163     \doclicense@baseUrlCC/%
164     licenses/publicdomain/%
165     \doclicense@versionUsed\doclicense@UrlLangPart}
166 }{}
167
168 \ifcsdef{doclicense@lang@lic@\doclicense@type%
169     @\doclicense@modifier @\doclicense@versionUsed}{%
170
171     \PackageError{doclicense}{License long name not defined}%
172     {Please check the documentation of doclicense to see what you can do about it.}%
173 }
174
175 \setboolean{doclicense@licenseKnown}{true}
176 }{}% }}
177 \ifthenelse{\not\boolean{doclicense@licenseKnown}}{%
178     \PackageError{doclicense}{License unknown}%
179     {Please check the documentation of doclicense to see what you can do about it.}%
180 }{}%
181 }
182 %}}

```



```

177
178 \doclicense@set%
That's it.
179 \endinput

```

Change History

```

0.7                                improvements ..... 1
  General: Initial version ..... 1 0.9
0.8                                General: Added list of supported li-
  General: Added support for CC-      censes to docu and added option
    zero and CC-pd and small im-    imagewidth ..... 1

```

Index

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.

Symbols	\doclicense@imagemodifier	43, 47, 65, 112, 162
\@ifpackageloaded .	..... 65, 128,	\doclicense@UrlLangPart
..... 8, 9, 11, 13	132, 136, 144, 154	..... 116,
	\doclicense@imagewidth	118, 125, 150, 159
A	..... 64, 70, 79	\doclicense@version
\AtEndPreamble 7	\doclicense@lang ..	..... 104, 107
	..... 87, 88,	\doclicense@versionFallback
	89, 90, 92, 93, 94	..... 29, 102, 105
C	\doclicense@lang@lic@CC@code	\doclicense@versionUsed
\ccbync ... 135, 139, 141	..... 115, 118	..... 30, 34,
\ccbynd 131	\doclicense@lang@thisDoc	46, 47, 105, 107,
\ccbysa 127	..... 52, 56	125, 150, 159, 163
\ccpd 153	\doclicense@lang@word@license	\doclicense@icon 3, 10, 60
\cczero 143	..... 53, 58	\doclicense@image ..
\csname 34	\doclicense@longName	..... 3, 12, 61, 80
	..... 33, 49, 57	\doclicense@license 3, 69
D	\doclicense@modifier	\doclicense@longName
\doclicense@baseUrlCC	. 34, 45, 47, 65,	..... 3, 49, 50
. 28, 122, 147, 157	124, 126, 130,	\doclicense@longNameRef
\doclicense@hsize .	134, 138, 140,	..... 3, 50
.... 32, 70, 72, 75	142, 149, 152, 163	\doclicense@longText
\doclicense@icon ..	\doclicense@set 110, 178	..... 55, 76
..... 36, 60,	\doclicense@setVersion	\doclicense@longType
127, 131, 135,	. 100, 120, 145, 155	. 3, 44, 49, 57, 113
139, 141, 143, 153	\doclicense@type 34,	\doclicense@modifier

..... 3, 45	I	S
\doclicenseName ...	\ifcsdef 5, 162	\setboolean 169
..... 3, 47, 48, 53	\IfFileExists 89	\setkeys 62
\doclicenseNameRef 3, 48	\includegraphics .. 64	\setlength 70, 72
\doclicenseText .. 3, 51	\input 90, 94	\space ... 49, 52, 56, 57
\doclicenseType .. 3, 43	L	T
\doclicenseURL	\languageName 88	\textwidth 70
.. 3, 48, 50, 53,	\lengthtest 71	
57, 63, 121, 146, 156	M	V
\doclicenseVersion 3, 46	\MakeUppercase 45	\vsize 71
E	N	X
\endcsname 34	\newboolean 31	\xspace 43,
\enquote 53, 57	\newlength 32	45, 46, 47, 48,
H	P	49, 53, 58, 60, 113
\hfill 78	\PackageError 37, 165, 172	
\href .. 48, 50, 53, 57, 63		
\hsize 71		