The doclicense package*

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Abstract

The doclicense package can calculate the age in years.
Information site on CTAN: https://www.ctan.org/pkg/doclicense
Fork me on GitHub: https://github.com/ypid/latex-packages/tree/master/doclicense

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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.

*This document corresponds to doclicense v0.7, dated 2015/02/05.

2 Usage

Just load the package placing

```
\usepackage{doclicense}
```

in the preamble of your LaTeX 2ε 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 "*type*". 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 "*modifier*" 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 a license, the version can also be set.

`lang` This package can output some short 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. Currently only English and German are supported.

`imagewidth` Default image with for the license image.

3 Macros

`\doclicenseType` Expands to the type as set in the package options. For this document this macro expands to: "CC"

`\doclicenseModifier` Expands to the modifier as set in the package options. For this document this macro expands to: "BY-SA"

`\doclicenseVersion` Expands to the version as set in the package options. For this document this macro expands to: "3.0"

`\doclicenseName` Expands to the short name of the license. For this document this macro expands to: "CC by-sa 3.0"

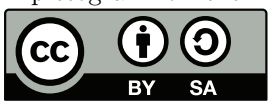
`\doclicenseNameRef` Same as `\doclicenseName` expect that it links to the URL of the license. For this document, it looks like this: "CC by-sa 3.0"

`\doclicenseLongName` Expands to the long localized name of the license. For this document this macro expands to: "Creative Commons Attribution-ShareAlike 3.0 Unported"

`\doclicenseLongNameRef` Same as `\doclicenseLongName` expect that it links to the URL of the license. For this document, it looks like this: "Creative Commons Attribution-ShareAlike 3.0 Unported"

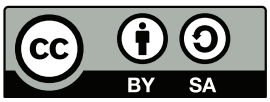
`\doclicenseText` Expands to a localized text which sets the document unter this license. For this document this macro expands to: “This work is licensed under a ‘CC by-sa 3.0 ’ license.”

`\doclicenseIcon` Expands to a icon of the license. For this document this macro expands to: “”

`\doclicenseImage` This is kind of similar with `\doclicenseIcon` 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 `[`⟨*imagewidth*⟩`]` parameter like this: “ ”

`\doclicenseLicense` And last but not least there is the `\doclicenseLicense` 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. 

4 Contributing

This package is being developed on GitHub: `https://github.com/ypid/latex-packages/tree/master/doclicense`.

5 Implementation

This package depends on these packages.

```
%% Dependencies {{{
\RequirePackage{kvoptions}
\RequirePackage{xifthen}
\RequirePackage{etoolbox} %% \ifcsdef
\RequirePackage{xspace}
\RequirePackage{csquotes}
\RequirePackage{ccicons}  %% For \doclicenseIcon
\RequirePackage{graphicx} %% For \doclicenseImage
%% }}}
```

5.1 Declaring the options

```
%% Parameters {{{
\DeclareStringOption[CC]{type}
\DeclareStringOption[by-sa]{modifier}
\DeclareStringOption[3.0]{version}
\DeclareStringOption{lang}
\DeclareStringOption[10em]{imagewidth}
%% }}}
```

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.

```
\ProcessLocalKeyvalOptions*
```

5.2 Language selection

Here comes the language selection part. The counter is already set by the fnumprint so I use it's value also in this package because I can rely on this counter.[1] If you prefer another language than English or German you can redefine the following macro definitions.

```
%% language support {{{
\ifthenelse{\equal{\doclicense@lang}{}}{%
  \renewcommand{\doclicense@lang}{\languagename}}{}
\ifthenelse{\equal{\doclicense@lang}{german}}{\input{doclicense-german.ldf}}{}
\ifthenelse{\equal{\doclicense@lang}{ngerman}}{\input{doclicense-german.ldf}}{}
\ifthenelse{\equal{\doclicense@lang}{english}}{\input{doclicense-english.ldf}}{}
\ifthenelse{\equal{\doclicense@lang}{USenglish}}{\input{doclicense-english.ldf}}{}
\ifthenelse{\equal{\doclicense@lang}{american}}{\input{doclicense-english.ldf}}{}
\ifthenelse{\equal{\doclicense@lang}{UKenglish}}{\input{doclicense-english.ldf}}{}
\ifthenelse{\equal{\doclicense@lang}{british}}{\input{doclicense-english.ldf}}{}
\ifthenelse{\equal{\doclicense@lang}{canadian}}{\input{doclicense-english.ldf}}{}
\ifthenelse{\equal{\doclicense@lang}{australian}}{\input{doclicense-english.ldf}}{}
```

[1] I am also the maintainer of the fnumprint package ...

```
\ifthenelse{\equal{\doclicense@lang}{newzealand}}{\input{doclicense-english.ldf}}{}
%% }}}

```

5.3 Macro definition

Some necessary LaTeX counters are declared here before creating the \doclicense macro.

```
\newcommand{\doclicense@baseUrlCC}{https://creativecommons.org/licenses}
\newboolean{doclicense@licenseKnown}
\newlength{\doclicense@hsize}

%% User macros {{{
\newcommand{\doclicenseType}{\doclicense@type\xspace}
\newcommand{\doclicenseModifier}{\MakeUppercase{\doclicense@modifier}\xspace}
\newcommand{\doclicenseVersion}{\doclicense@version\xspace}
\newcommand{\doclicenseName}{\doclicense@type~\doclicense@modifier~\doclicense@version\xspace}
\newcommand{\doclicenseNameRef}{\href{\doclicenseURL}{\doclicenseName}\xspace}
\newcommand{\doclicense@longName}{%
  \csname doclicense@lang@lic@\doclicense@type @\doclicense@modifier @\doclicense@version\endcs
\newcommand{\doclicenseLongName}{\doclicenseLongType\space\doclicense@longName\xspace}
\newcommand{\doclicenseLongNameRef}{\href{\doclicenseURL}{\doclicenseLongName}}
\newcommand{\doclicenseText}{%
  \doclicense@lang@thisDoc\space
  \href{\doclicenseURL}{\enquote{\doclicenseName}} \doclicense@lang@word@license.\xspace
}
\newcommand{\doclicenseLongText}{%
  \doclicense@lang@thisDoc\space
  \href{\doclicenseURL}{\doclicenseLongType\space\enquote{\doclicense@longName}}
  \doclicense@lang@word@license.\xspace
}
\newcommand{\doclicenseIcon}{\doclicense@icon\xspace}
\newcommand{\doclicenseImage}[1][]{%
  \setkeys{doclicense}{#1}
  \href{\doclicenseURL}{%
    \includegraphics[width=\doclicense@imagewidth]%
      {doclicense-\doclicense@type-\doclicense@modifier.pdf}%
  }
}

\newcommand{\doclicenseLicense}{
\setlength{\doclicense@hsize}{\textwidth - \doclicense@imagewidth - 2em}
\ifthenelse{\lengthtest{\hsize > \vsize}}{%% landscape
  \setlength{\doclicense@hsize}{\doclicense@hsize - 10em}
}{}
\begin{center}
\begin{minipage}{\doclicense@hsize}
  \doclicenseLongText%
\end{minipage}
```

```
\hfill
\begin{minipage}{\doclicense@imagewidth}
  \doclicenseImage%
\end{minipage}
\end{center}
}
%% }}}

%% Set license {{{
\newcommand{\doclicense@icon}{%
  \PackageError{doclicense}{Icon not defined}
    {Please check the documentation of doclicense to see what you can do about it.}%
}
\newcommand{\doclicense@set}[1][]{%
  %% CC {{{
  \ifthenelse{\equal{\doclicense@type}{CC}}{%
    \newcommand{\doclicenseLongType}{Creative Commons\xspace}

    \ifthenelse{\equal{\doclicense@lang@lic@CC@code}{}}{%
      \edef\doclicense@UrlLangPart{}
    }{%
      \edef\doclicense@UrlLangPart{/\doclicense@lang@lic@CC@code}
    }
    \edef\doclicenseURL{%
      \doclicense@baseUrlCC/%
      \doclicense@modifier/%
      \doclicense@version\doclicense@UrlLangPart}
    \ifthenelse{\equal{\doclicense@modifier}{by-sa}}
      {\renewcommand{\doclicense@icon}{\ccbysa}}{}
    \ifthenelse{\equal{\doclicense@modifier}{by-nd}}
      {\renewcommand{\doclicense@icon}{\ccbynd}}{}
    \ifthenelse{\equal{\doclicense@modifier}{by-nc}}
      {\renewcommand{\doclicense@icon}{\ccbync}}{}
    \ifthenelse{\equal{\doclicense@modifier}{by-nc-sa}}
      {\renewcommand{\doclicense@icon}{\ccbync}}{}
    \ifthenelse{\equal{\doclicense@modifier}{by-nc-nd}}
      {\renewcommand{\doclicense@icon}{\ccbync}}{}
    \ifthenelse{\equal{\doclicense@modifier}{zero}}
      {\renewcommand{\doclicense@icon}{\cczero}}{}
    \ifthenelse{\equal{\doclicense@modifier}{pd}}
      {\renewcommand{\doclicense@icon}{\ccpd}}{}

    \ifcsdef{doclicense@lang@lic@\doclicense@type%
      @\doclicense@modifier @\doclicense@version}{}{%

      \PackageError{doclicense}{License long name not defined}%
        {Please check the documentation of doclicense to see what you can do about it.}%
    }

    \setboolean{doclicense@licenseKnown}{true}
```

```
126   }{}%% }}}
127   \ifthenelse{\not\boolean{doclicense@licenseKnown}}{%
128     \PackageError{doclicense}{License unknown}%
129       {Please check the documentation of doclicense to see what you can do about it.}%
130   }{}%
131 }
132 \doclicense@set%
```

That's it.

```
133 \endinput
```

Change History

0.70

General: Initial version 1

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