The doclicense package*

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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

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*This document corresponds to doclicense v1.1, dated 2015/04/06.

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 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{
%  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`" and "This work is licensed under a Creative Commons 'Attribution-ShareAlike 3.0 Unported' license.").

`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. Please make sure that the type is all uppercase. See the Supported licenses section for a complete list.

`modifier` The next parameter is "*modifier*" 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 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` 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. 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 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 German is set as language then "-eu" will be used as default for this option.
Currently supported are "-eu" and "-us".

3 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"

`\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 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"

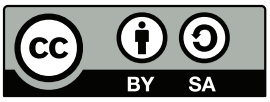
`\doclicenseLongNameRef` Same as `\doclicenseLongName` except that it links to the URL of the license. Example: "Creative Commons Attribution-ShareAlike 3.0 Unported"

`\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. Example: "This work is licensed under a Creative Commons 'Attribution-ShareAlike 3.0 Unported' license."

`\doclicenseIcon` Expands to a icon of the license. Example: "". This macro is based on the ccicons package.

`\doclicenseImage` This is kind of similar with `\doclicenseIcon` but it will typeset an bigger pic-

togram of the license. Example: “  ”
Note that you can change the image size with the `[⟨imagewidth⟩]` parameter like this: “ ”

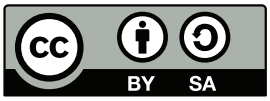
```
\doclicenseImage[imagewidth=2em]
```

The images are bundled with the doclicense package.

`\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 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.



4 Supported licenses

4.1 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-nc@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-nc@4.0	Attribution-NonCommercial-NoDerivatives 4.0 International

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

6.1 Dependencies

This package depends on these packages.

```
%% Dependencies {{{
\RequirePackage{kvoptions}
\RequirePackage{xifthen}
\RequirePackage{etoolbox} %% \ifcsdef
\RequirePackage{xspace}
\AtEndPreamble{%
  \@ifpackageloaded{csquotes}{}{\RequirePackage{csquotes}}
  \@ifpackageloaded{ccicons}{}{\RequirePackage{ccicons}}
    %% For \doclicenseIcon
  \@ifpackageloaded{graphicx}{}{\RequirePackage{graphicx}}
    %% For \doclicenseImage
  \@ifpackageloaded{hyperref}{}{\RequirePackage{hyperref}}
  \@ifpackageloaded{hyperxmp}{%
    %% The following options are only defined when the hyperxmp package was loaded.
    \hypersetup{
      pdfcopyright  = {\doclicenseLongText},
      pdflicenseurl = {\doclicenseURL},
    }
  }{}
}
%% }}}

```

6.2 Declaring the options

```
%% Parameters {{{
\DeclareStringOption[CC]{type}
\DeclareStringOption[by-sa]{modifier}
\DeclareStringOption{version}
\DeclareStringOption{lang}
\DeclareStringOption{imagemodifier}
\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*
```

6.3 Declare variables and macros

```
%% Declare variables {{{
\newcommand{\doclicense@baseUrlCC}{https://creativecommons.org}
\newcommand{\doclicense@versionFallback}{}
```

```
\newcommand{\doclicense@versionUsed}{}
\newboolean{doclicense@licenseKnown}
\newlength{\doclicense@hsize}
\newcommand{\doclicense@longName}{%
  \@nameuse{doclicense@lang@lic@\doclicense@type @\doclicense@modifier%
    @\doclicense@versionUsed}%
}
\newcommand{\doclicense@icon}{%
  \PackageError{doclicense}{Icon not defined}
    {Please check the documentation of doclicense to see what you can do about it.}%
}
%% }}}

```

6.4 Macro user macros

```
%% User macros {{{
\newcommand{\doclicenseType}{\doclicense@type\xspace}
\newcommand{\doclicenseLongType}{}
\newcommand{\doclicenseModifier}{\MakeUppercase{\doclicense@modifier}\xspace}
\newcommand{\doclicenseVersion}{\doclicense@versionUsed\xspace}
\newcommand{\doclicenseName}{%
  \doclicense@type~\MakeUppercase{\doclicense@modifier}~\doclicense@versionUsed\xspace%
}
\newcommand{\doclicenseNameRef}{\href{\doclicenseURL}{\doclicenseName}\xspace}
\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{\doclicenseImageFileName}{doclicense-\doclicense@type-\doclicense@modifier\doclicer
\newcommand{\doclicenseImage}[1][]{%
  \setkeys{doclicense}{#1}
  \href{\doclicenseURL}{%
    \includegraphics[
      width=\doclicense@imagewidth%
    ]{\doclicenseImageFileName}%
  }
}

\newcommand{\doclicenseLicense}{\doclicenseThis} %% legacy support
\newcommand{\doclicenseThis}{
  \setlength{\doclicense@hsize}{\textwidth-\doclicense@imagewidth-2em}
```

```
  \ifthenelse{\isnamedefined{iflandscape}}{
    \iflandscape{
      \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}
}
%% }}}

```

6.5 Language selection

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

```
%% Language support {{{
\ifthenelse{\equal{\doclicense@lang}{}}{%
  \renewcommand{\doclicense@lang}{\languagename}}{}
\IfFileExists{doclicense-\doclicense@lang.ldf}{%
  \input{doclicense-\doclicense@lang.ldf}
}{%
  \PackageWarning{doclicense}{%
    No language definition for \doclicense@lang found.
    Please add one and submit a patch. Using English as fallback.}
  \renewcommand{\doclicense@lang}{english}
  \input{doclicense-\doclicense@lang.ldf}
}
\ifthenelse{\equal{\doclicense@imagemodifier}{-us}}{%
  \@namedef{doclicense@imagemodifier}{}
}{}

%% }}}

```

6.6 Internals

```
%% Set license {{{
\newcommand{\doclicense@setVersion}[1][]{%
  \ifthenelse{\equal{#1}{}}{}{%
    \renewcommand{\doclicense@versionFallback}{#1}
  }
  \ifthenelse{\equal{\doclicense@version}{}}{%
```

```
    \renewcommand{\doclicense@versionUsed}{\doclicense@versionFallback}
  }{%
    \renewcommand{\doclicense@versionUsed}{\doclicense@version}
  }
}
\newcommand{\doclicense@set}{%
  %% CC {{{
  \ifthenelse{\equal{\doclicense@type}{CC}}{%
    \renewcommand{\doclicenseLongType}{Creative Commons\xspace}

    \doclicense@setVersion[3.0]

    %% Allow to predefine the following macros in ldf files.
    \ifcsdef{doclicense@UrlLangPart}{}{%
      \ifthenelse{\equal{\doclicense@lang@lic@CC@code}{}}{%
        \edef\doclicense@UrlLangPart{}
      }{%
        \ifthenelse{%
          %% German only: Version 3.0 and version 4.0 use a different different URL schema.
          \equal{\doclicense@lang@lic@CC@code}{de}%
          \AND%
          \equal{\doclicense@versionUsed}{4.0}%
        }{%
          \edef\doclicense@UrlLangPart{/\doclicense@lang@translation@lic@CC@code}
        }{%
          \edef\doclicense@UrlLangPart{/\doclicense@lang@lic@CC@code}
        }
      }
    }
    \ifcsdef{doclicenseURL}{}{%
      \edef\doclicenseURL{%
        \doclicense@baseUrlCC/%
        licenses/%
        \doclicense@modifier/%
        \doclicense@versionUsed\doclicense@UrlLangPart%
      }
    }
    \ifthenelse{\equal{\doclicense@modifier}{by-sa}}{%
      \renewcommand{\doclicense@icon}{\ccbysa}
      \renewcommand{\doclicense@imagemodifier}{}
    }{}
    \ifthenelse{\equal{\doclicense@modifier}{by-nd}}{%
      \renewcommand{\doclicense@icon}{\ccbynd}
      \renewcommand{\doclicense@imagemodifier}{}
    }{}
    \ifthenelse{\equal{\doclicense@modifier}{by-nc}}{%
      \renewcommand{\doclicense@icon}{\ccbync}
      \renewcommand{\doclicense@imagemodifier}{}
    }{}
    \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}
      \renewcommand{\doclicense@imagemodifier}{}
      \doclicense@setVersion[1.0]
      \edef\doclicenseURL{%
        \doclicense@baseUrlCC/%
        publicdomain/%
        \doclicense@modifier/%
        \doclicense@versionUsed\doclicense@UrlLangPart}
    }{}
    \ifthenelse{\equal{\doclicense@modifier}{pd}}{
      \renewcommand{\doclicense@icon}{\ccpd}
      \renewcommand{\doclicense@imagemodifier}{}
      \doclicense@setVersion[1.0]
      \edef\doclicenseURL{%
        \doclicense@baseUrlCC/%
        licenses/publicdomain/%
        \doclicense@versionUsed\doclicense@UrlLangPart}
    }{}

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

      \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}
  }{}%% }}}
  \ifthenelse{\not\boolean{doclicense@licenseKnown}}{%
    \PackageError{doclicense}{License unknown}%
      {Please check the documentation of doclicense to see what you can do about it.}%
  }{}%
}
%% }}}

\doclicense@set%
```

That's it.

```
\endinput
```

Change History

0.07

General: Initial version 1

0.08

General: Added support for CC-

zero and CC-pd and small improvements 1

0.09

General: Added list of supported licenses to docu and added option imagemodifier. Also renamed macro `\doclicenseLicense` to `\doclicenseThis` 1

0.10

General: Added support for hyperxmp 1

1.0

General: Removed space before quotes (Example: "CC " → "CC") 1

1.1

General: Added support for Creative Commons 4.0 and added `\doclicenseImageFileName` . . . 1

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