

The doclicense package*

Robin Schneider
ypid@riseup.net

May 9, 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 CC (Creative commons) | 4 |
| 5 Contributing | 5 |
| 6 Implementation | 6 |
| 6.1 Dependencies | 6 |
| 6.2 Declaring the options | 6 |
| 6.3 Declare variables and macros | 6 |
| 6.4 Macro user macros | 7 |
| 6.5 Language selection | 8 |
| 6.6 Internals | 8 |

*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 L^AT_EX 2_ε 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”](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 “ <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 Supported licenses section for a complete list. |
| modifier | 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 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. |


| | |
|----------------------------|--|
| <code>lang</code> | 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. |
| <code>imagewidth</code> | Default image width for the license image. |
| <code>imagemodifier</code> | 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 <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: |

```
\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

| | |
|-------------------------------------|---|
| <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 your. Example: “ https://creativecommons.org/licenses/by-sa/3.0 ” |
| <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: “ CC BY-SA 3.0 ” |
| <code>\doclicenseLongNameRef</code> | Same as <code>\doclicenseLongName</code> except that it links to the URL of the license. Example: “ Creative Commons Attribution-ShareAlike 3.0 Unported ” |
| <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 ‘ CC BY-SA 3.0 ’ 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 Creative Commons ‘Attribution-ShareAlike 3.0 Unported’ license.” |
| <code>\doclicenseIcon</code> | Expands to a icon of the license. Example: “  ”. 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 pic- |



to gram of the license. Example: “

Note that you can change the image size with the `[\langle imagewidth \rangle]` 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-nd@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-nd@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.

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 same translation then have a look at the file `doclicense-american.ldf`.

When you are done and tested your translation then please send me the translated file(s) either via Email or preferably by opening a pull request on GitHub so that I can add them in the next release.

6 Implementation

6.1 Dependencies

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  \@ifpackageloaded{hyperxmp}{%
15    %% The following options are only defined when the hyperxmp package was loaded.
16    \hypersetup{
17      pdfcopyright = {\doclicenseLongText},
18      pdflicenseurl = {\doclicenseURL},
19    }
20  }{}
21 }
22 %% )))
23
```

6.2 Declaring the options

```
24 %% Parameters (((
25 \DeclareStringOption[CC]{type}
26 \DeclareStringOption[by-sa]{modifier}
27 \DeclareStringOption{version}
28 \DeclareStringOption{lang}
29 \DeclareStringOption{imagemodifier}
30 \DeclareStringOption[10em]{imagewidth}
31 %% )))
32
```

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.

```
33 \ProcessLocalKeyvalOptions*
```

6.3 Declare variables and macros

```
34 %% Declare variables (((
35 \newcommand{\doclicense@baseUrlCC}{https://creativecommons.org}
36 \newcommand{\doclicense@versionFallback}{}
```

```

37 \newcommand{\doclicense@versionUsed}{}
38 \newboolean{doclicense@licenseKnown}
39 \newlength{\doclicense@hsize}
40 \newcommand{\doclicense@longName}{%
41   \@nameuse{doclicense@lang@lic@doclicense@type @doclicense@modifier%
42     @doclicense@versionUsed}%
43 }
44 \newcommand{\doclicense@icon}{%
45   \PackageError{doclicense}{Icon not defined}
46     {Please check the documentation of doclicense to see what you can do about it.}%
47 }
48 \newcommand{\doclicense@modifier@uppercase}{\texorpdfstring{\MakeUppercase{\doclicense@modifier%
49 %% }}}
50

```

6.4 Macro user macros

```

51 %% User macros (((
52 \newcommand{\doclicenseType}{\doclicense@type\xspace}
53 \newcommand{\doclicenseLongType}{}
54 \newcommand{\doclicenseModifier}{\doclicense@modifier@uppercase\xspace}
55 \newcommand{\doclicenseVersion}{\doclicense@versionUsed\xspace}
56 \newcommand{\doclicenseName}{%
57   \doclicense@type~\doclicense@modifier@uppercase~\doclicense@versionUsed\xspace%
58 }
59 \newcommand{\doclicenseNameRef}{\href{\doclicenseURL}{\doclicenseName}\xspace}
60 \newcommand{\doclicenseLongName}{\doclicenseLongType\space\doclicense@longName\xspace}
61 \newcommand{\doclicenseLongNameRef}{\href{\doclicenseURL}{\doclicenseLongName}}
62 \newcommand{\doclicenseText}{%
63   \doclicense@lang@thisDoc\space
64   \href{\doclicenseURL}{\enquote{\doclicenseName}} \doclicense@lang@word@license.\xspace%
65 }
66 \newcommand{\doclicenseLongText}{%
67   \doclicense@lang@thisDoc\space
68   \href{\doclicenseURL}{\doclicenseLongType\space\enquote{\doclicense@longName}}
69   \doclicense@lang@word@license.\xspace%
70 }
71 \newcommand{\doclicenseIcon}{\doclicense@icon\xspace}
72 \newcommand{\doclicenseImageFileName}{doclicense-\doclicense@type-\doclicense@modifier\doclicense@versionUsed\xspace}
73 \newcommand{\doclicenseImage}[1][\doclicense@imgwidth]{%
74   \setkeys{doclicense}{#1}
75   \href{\doclicenseURL}{%
76     \includegraphics[
77       width=\doclicense@imgwidth%
78     ]{\doclicenseImageFileName}%
79   }
80 }
81
82 \newcommand{\doclicenseLicense}{\doclicenseThis} %% legacy support
83 \newcommand{\doclicenseThis}{

```

```

84 \setlength{\doclicense@hsize}{\textwidth-\doclicense@imagewidth-2em}
85 \ifthenelse{\isnamedefined{iflandscape}}{
86   \iflandscape{
87     \setlength{\doclicense@hsize}{\doclicense@hsize-10em}
88   }{}
89 }{}
90 \begin{center}
91   \begin{minipage}{\doclicense@hsize}
92     \doclicenseLongText%
93   \end{minipage}
94   \hfill
95   \begin{minipage}{\doclicense@imagewidth}
96     \doclicenseImage%
97   \end{minipage}
98 \end{center}
99 }
100 %% )))
101

```

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.

```

102 %% Language support (((
103 \ifthenelse{\equal{\doclicense@lang}{}}{%
104   \renewcommand{\doclicense@lang}{\languagename}}{}
105 \IfFileExists{doclicense-\doclicense@lang.ldf}{%
106   \input{doclicense-\doclicense@lang.ldf}
107 }{%
108   \PackageWarning{doclicense}{%
109     No language definition for \doclicense@lang found.
110     Please add one and submit a patch. Using English as fallback.}
111   \renewcommand{\doclicense@lang}{english}
112   \input{doclicense-\doclicense@lang.ldf}
113 }
114 \ifthenelse{\equal{\doclicense@imagemodifier}{-us}}{%
115   \@namedef{doclicense@imagemodifier}{}
116 }{}
117
118 %% )))
119

```

6.6 Internals

```

120 %% Set license (((
121 \newcommand{\doclicense@setVersion}[1][]{%
122   \ifthenelse{\equal{#1}{}}{}{%
123     \renewcommand{\doclicense@versionFallback}{#1}
124   }

```



```

125 \ifthenelse{\equal{\doclicense@version}{}}{%
126   \renewcommand{\doclicense@versionUsed}{\doclicense@versionFallback}
127 }{%
128   \renewcommand{\doclicense@versionUsed}{\doclicense@version}
129 }
130 }
131 \newcommand{\doclicense@set}{%
132   %% CC (((
133   \ifthenelse{\equal{\doclicense@type}{CC}}{%
134     \renewcommand{\doclicenseLongType}{Creative Commons\space}
135
136     \doclicense@setVersion[3.0]
137
138     %% Allow to predefine the following macros in ldf files.
139     \ifcsdef{doclicense@UrlLangPart}{}%
140       \ifthenelse{\equal{\doclicense@lang@lic@CC@code}{}}{%
141         \edef\doclicense@UrlLangPart{}
142       }{%
143         \ifthenelse{%
144           %% German only: Version 3.0 and version 4.0 use a different different URL schema.
145           \equal{\doclicense@lang@lic@CC@code}{de}%
146           \AND%
147           \equal{\doclicense@versionUsed}{4.0}%
148         }{%
149           \edef\doclicense@UrlLangPart{/doclicense@lang@translation@lic@CC@code}
150         }{%
151           \edef\doclicense@UrlLangPart{/doclicense@lang@lic@CC@code}
152         }
153       }
154     }
155     \ifcsdef{doclicenseURL}{}%
156       \edef\doclicenseURL{%
157         \doclicense@baseUrlCC/%
158         licenses/%
159         \doclicense@modifier/%
160         \doclicense@versionUsed\doclicense@UrlLangPart%
161       }
162     }
163     \ifthenelse{\equal{\doclicense@modifier}{by}}{%
164       \renewcommand{\doclicense@icon}{\ccby}
165       \renewcommand{\doclicense@imagemodifier}{%
166     }{}
167     \ifthenelse{\equal{\doclicense@modifier}{by-sa}}{%
168       \renewcommand{\doclicense@icon}{\ccbysa}
169       \renewcommand{\doclicense@imagemodifier}{%
170     }{}
171     \ifthenelse{\equal{\doclicense@modifier}{by-nd}}{%
172       \renewcommand{\doclicense@icon}{\ccbynd}
173       \renewcommand{\doclicense@imagemodifier}{%
174     }{}

```

```

175 \ifthenelse{\equal{\doclicense@modifier}{by-nc}}{%
176   \renewcommand{\doclicense@icon}{\ccbync}
177   \ifthenelse{\equal{\doclicense@imagemodifier}{-eu}}{%
178     \renewcommand{\doclicense@icon}{\ccbynceu}
179   }{}
180   \ifthenelse{\equal{\doclicense@imagemodifier}{-jp}}{%
181     \renewcommand{\doclicense@icon}{\ccbyncjp}
182   }{}
183   \renewcommand{\doclicense@imagemodifier}{}
184 }{}
185 \ifthenelse{\equal{\doclicense@modifier}{by-nc-sa}}{
186   \renewcommand{\doclicense@icon}{\ccbyncsa}
187   \ifthenelse{\equal{\doclicense@imagemodifier}{-eu}}{%
188     \renewcommand{\doclicense@icon}{\ccbyncsaeu}
189   }{}
190   \ifthenelse{\equal{\doclicense@imagemodifier}{-jp}}{%
191     \renewcommand{\doclicense@icon}{\ccbyncsajp}
192   }{}
193 }{}
194 \ifthenelse{\equal{\doclicense@modifier}{by-nc-nd}}{
195   \renewcommand{\doclicense@icon}{\ccbyncnd}
196   \ifthenelse{\equal{\doclicense@imagemodifier}{-eu}}{%
197     \renewcommand{\doclicense@icon}{\ccbyncndeue}
198   }{}
199   \ifthenelse{\equal{\doclicense@imagemodifier}{-jp}}{%
200     \renewcommand{\doclicense@icon}{\ccbyncndjp}
201   }{}
202 }{}
203 \ifthenelse{\equal{\doclicense@modifier}{zero}}{%
204   \renewcommand{\doclicense@icon}{\cczero}
205   \renewcommand{\doclicense@imagemodifier}{}
206   \doclicense@setVersion[1.0]
207   \edef\doclicenseURL{%
208     \doclicense@baseUrlCC/%
209     publicdomain/%
210     \doclicense@modifier/%
211     \doclicense@versionUsed\doclicense@UrlLangPart}
212 }{}
213 \ifthenelse{\equal{\doclicense@modifier}{pd}}{
214   \renewcommand{\doclicense@icon}{\ccpd}
215   \renewcommand{\doclicense@imagemodifier}{}
216   \doclicense@setVersion[1.0]
217   \edef\doclicenseURL{%
218     \doclicense@baseUrlCC/%
219     licenses/publicdomain/%
220     \doclicense@versionUsed\doclicense@UrlLangPart}
221 }{}
222
223 \ifcsdef{doclicense@lang@lic@doclicense@type%
224   @\doclicense@modifier @\doclicense@versionUsed}{-}{%

```

```

225
226     \PackageError{doclicense}{License long name not defined}%
227     {Please check the documentation of doclicense to see what you can do about it.}%
228 }
229
230 \setboolean{doclicense@licenseKnown}{true}
231 }{}% ))))
232 \ifthenelse{\not\boolean{doclicense@licenseKnown}}{%
233     \PackageError{doclicense}{License unknown}%
234     {Please check the documentation of doclicense to see what you can do about it.}%
235 }{}%
236 }
237 %% ))))
238
239 \doclicense@set%

```

That's it.

```

240 \endinput

```

Change History

| | | | |
|------|--|------|---|
| 0.07 | General: Initial version 1 | 0.10 | General: Added support for hyper-xmp 1 |
| 0.08 | General: Added support for CC-zero and CC-pd and small improvements 1 | 1.0 | General: Removed space before quotes (Example: “CC ” → “CC”) 1 |
| 0.09 | General: Added list of supported licenses to docu and added option <code>imagemodifier</code> . Also renamed macro <code>\doclicenseLicense</code> to <code>\doclicenseThis</code> 1 | 1.1 | General: Added support for Creative Commons 4.0 and added <code>\doclicenseImageFileName</code> . . . 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 | A | |
|---|---|--|
| <code>\@ifpackageloaded</code> 8, 9, 11, 13, 14 | <code>\AtEndPreamble</code> 7 | <code>\ccbynceu</code> 178 |
| <code>\@namedef</code> 115 | <code>\ccby</code> 164 | <code>\ccbyncjp</code> 181 |
| <code>\@nameuse</code> 41 | <code>\ccbync</code> 176 | <code>\ccbyncnd</code> 195 |
| | | <code>\ccbyncnde</code> 197 |
| | | <code>\ccbyncndjp</code> 200 |

| | | | |
|--|-----|--------------------------------|------------------------------|
| \ccbyncsa | 186 | \doclicense@modifier@uppercase | E |
| \ccbyncsaeu | 188 | 48, 54, 57 | \enquote 64, 68 |
| \ccbyncsajp | 191 | \doclicense@set | 131, 239 |
| \ccbynd | 172 | \doclicense@setVersion | H |
| \ccbysa | 168 | . 121, 136, 206, 216 | \hfill 94 |
| \ccpd | 214 | \doclicense@type 41, | \href . . 59, 61, 64, 68, 75 |
| \cczero | 204 | 52, 57, 72, 133, 223 | \hypersetup 16 |
| | | \doclicense@UrlLangPart | |
| | | 141, 149, | |
| | | 151, 160, 211, 220 | |
| \doclicense@baseUrlCC | | \doclicense@version | I |
| . 35, 157, 208, 218 | | 125, 128 | \ifcsdef 5, 139, 155, 223 |
| \doclicense@hsize | | \doclicense@versionFallback | \IfFileExists 105 |
| 39, 84, 87, 91 | | 36, 123, 126 | \iflandscape 86 |
| \doclicense@icon . . | | \doclicense@versionUsed | \includegraphics . . 76 |
| 44, 71, 164, | | . 37, 42, 55, 57, | \input 106, 112 |
| 168, 172, 176, | | 126, 128, 147, | \isnamedefined 85 |
| 178, 181, 186, | | 160, 211, 220, 224 | |
| 188, 191, 195, | | \doclicenseIcon 3, 10, 71 | L |
| 197, 200, 204, 214 | | \doclicenseImage . . | \language 104 |
| \doclicense@imagemodifier | | 3, 12, 73, 96 | M |
| 72, | | \doclicenseImageFileName | |
| 114, 165, 169, | | 4, 72, 78 | |
| 173, 177, 180, | | \doclicenseLicense . 82 | N |
| 183, 187, 190, | | \doclicenseLongName | \newboolean 38 |
| 196, 199, 205, 215 | | 3, 60, 61 | \newlength 39 |
| \doclicense@imagewidth | | \doclicenseLongNameRef | |
| 77, 84, 95 | | 3, 61 | P |
| \doclicense@lang . . | | \doclicenseLongText | \PackageError |
| . 103, 104, 105, | | 3, 17, 66, 92 | 45, 226, 233 |
| 106, 109, 111, 112 | | \doclicenseLongType | |
| \doclicense@lang@lic@CC@code | | . 3, 53, 60, 68, 134 | S |
| 140, 145, 151 | | \doclicenseModifier | \setboolean 230 |
| \doclicense@lang@thisDoc | | 3, 54 | \setkeys 74 |
| 63, 67 | | \doclicenseName . . | \setlength 84, 87 |
| \doclicense@lang@translation@lic@CC@code | | 3, 56, 59, 64 | \space . . . 60, 63, 67, 68 |
| 149 | | \doclicenseNameRef 3, 59 | |
| \doclicense@lang@word@license | | \doclicenseText . . 3, 62 | T |
| 64, 69 | | \doclicenseThis 4, 82, 83 | \texorpdfstring . . . 48 |
| \doclicense@longName | | \doclicenseType . . 3, 52 | \textwidth 84 |
| 40, 60, 68 | | \doclicenseURL | |
| \doclicense@modifier | | . 3, 18, 59, 61, 64, | X |
| . 41, 48, 72, 159, | | 68, 75, 156, 207, 217 | \xspace 52, |
| 163, 167, 171, | | \doclicenseVersion 3, 55 | 54, 55, 57, 59, |
| 175, 185, 194, | | | 60, 64, 69, 71, 134 |
| 203, 210, 213, 224 | | | |