stmhyperref package description

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This package takes care of handling cross-referencing in LATEX documents with hypertext links. It loads the underlying base package and offers a modular collection of styles for the representation of hyperlinks. It is build upon the hyperref package.

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1. Usage

1.1. Load the whole stmhyperref package

1.1.1. Description

This is an interface package which loads the base package and the style choice. By default the package loads

- stmhyperrefbase.sty
- stmhyperrefpdfopts.sty
- stmhyperrefstyles.sty

See subsubsection 1.1.2 for options to change the default package behavior.

1.1.2. Options

Option styles This is a boolean option. Expected values are either true or false. It controls whether to load the predefined styles.

\usepackage[styles=true|false] {stmhyperref}

styles=true is the default. It is used in case styles=false is not set explicitly.

Option style This option value is the equivalent to section 1.3.2 and is passed through to the underlying package.

Option *pdfopts* This is a boolean option. Expected values are either true or false. It controls whether to load the predefined pdf view option sets.

\usepackage[pdfopts=true|false]{stmhyperref}

pdfopts=true is the default. It is used in case pdfopts=false is not set explicitly.

Option pdfopt This option value is the equivalent to section 1.4.2 and is passed through to the underlying package.

1.2. stmhyperrefbase

This package loads the underlying base package with some default options that can only be set during initialization.

1.3. stmhyperrefstyles

1.3.1 Description

This package contains styles for the optical behaviour of internal and external links. Internal links are those inside the document, e.g. references and citations. External links are those to URL's.

1.3.2. Options

Option style This is a string option. A list of possible values is shown in section 2.

\usepackage[style=stmdefault]{stmhyperrefstyles}

style=stmdefault is the default. It is used in case no other style is set explicitly.

1.4. stmhyperrefpdfopts

1.4.1 Description

This package contains definitions how to display the resulting document at opening in the viewer.

1.4.2 Options

This is a string option. A list of possible values is listed in section 3.

\usepackage[pdfopt=stmdefault]{stmhyperrefpdfopts}

style=stmdefault is the default. It is used in case no other style is set explicitly. A list of possible values is shown in section 3.

2. Styles

There are different predefined styles available to format your hypertext.

2.1. default

This loads the default style from the underlying base package and does not apply individual styles.

2.2. stmdefault

This loads the color definitions for links, citations and URL's from the stmcolor package and applies them.

2.3. colorlinkexternalblueinternalblack

Please take the style information directly from appendix A.4.

2.4. colorlinkallblack

Please take the style information directly from appendix A.4.

2.5. colorlinkallblue

Please take the style information directly from appendix A.4.

3. pdfopt sets

There are different predefined options sets available to configure the pdf view settings.

3.1. default

Please take the style information directly from appendix A.3.

3.2. stmdefault

Please take the style information directly from appendix A.3.

3.3. viewfitwmenuwtoolbarwobookmarksopen

Please take the style information directly from appendix A.3.

A. The code

A.1. stmhyperref.sty

```
2 % Header
4 %
5 % This file includes hyperref setup
6 % Based upon the hyperref package:
7 % https://ctan.org/pkg/hyperref
8 %
9 % Usage
10 % - Preamble:
11 %
     - \usepackage{stmhyperref}
12 %
13 % Revisions: 2019-10-27 Martin Raedel <martin.raedel@dlr.de>
14 %
                     Initial draft
15 %
16 % Contact: Martin Raedel, martin.raedel@dlr.de
17 %
            DLR Lightweight Systems
18 %
19 %
                             __/|__
20 %
                            /_/_/_/
21 %
                             |/ DLR
            www.dlr.de/sy/en
22 %
23 % Copyright (C) 2019-... DLR Lightweight Systems
24 %
26 % Content
28
29 % Declare that this style file requires at least LaTeX version 2e.
30 \NeedsTeXFormat{LaTeX2e}
31
32 % Provide the name of your page, the date it was last updated, and a
     comment about what it's used for
33 \ProvidesPackage{stmhyperref}[2023/02/12 STMs hyperref setup definitions]
34
35 % -----
36 % Options
37 % -----
38
39 % For options
```

```
40 \@ifpackageloaded{kvoptions}{}{\RequirePackage{kvoptions}}%
41
42 % Option group
43 \SetupKeyvalOptions{%
     family=stmhyperref,%
45
     prefix=stmhyperref@,%
46
     setkeys=\kvsetkeys,%
47 }
48
49 % Load styles
50 \DeclareBoolOption[true] {styles}
51
52 % Apply style name
53 \DeclareStringOption[stmdefault]{style}
54
55 % Load styles
56 \DeclareBoolOption[true] {pdfopts}
57
58 % Apply style name
59 \DeclareStringOption[stmdefault]{pdfopt}
60
61 % Process options
62 \ProcessKeyvalOptions{stmhyperref}
63
64 % -----
65 % Modules
66 % -----
67
68 % Load the base package
69 \@ifpackageloaded{hyperref}{}{%
70 \RequirePackage{stmhyperrefbase}
71 }%
72
73 % Load the styles
74 \ifstmhyperref@styles
     \verb|\difpackageloaded{stmhyperrefstyles}{}{} \\
75
76
       \RequirePackage[
77
         style=\stmhyperref@style
78
       ]{stmhyperrefstyles}%
79
    1%
80 \fi
81
82 % Load the styles
83 \ifstmhyperref@pdfopts
```

```
84
    \@ifpackageloaded{stmhyperrefpdfopts}{}{%
85
      \RequirePackage[
86
       style=\stmhyperref@pdfopt
      ]{stmhyperrefpdfopts}%
87
88
89 \fi
90
92 % That's it
94
95 % Finally, we'll use \endingut to indicate that LaTeX can stop reading
     this file. LaTeX will ignore anything after this line.
96 \endinput
```

A.2. stmhyperrefbase.sty

```
2 % Header
4 %
5 % This file includes hyperref setup
6 % Based upon the hyperref package:
7 % https://ctan.org/pkg/hyperref
8
9 % Usage
10 % - Preamble:
11 %
     - \usepackage{stmhyperrefbase}
12 %
13 % Revisions: 2019-10-27 Martin Raedel <martin.raedel@dlr.de>
14 %
                   Initial draft
15 %
16 % Contact: Martin Raedel, martin.raedel@dlr.de
17 %
           DLR Lightweight Systems
18 %
19 %
                           __/|__
                          /_/_/_/
20 %
21 %
           www.dlr.de/sy/en
                           |/ DLR
22 %
23 % Copyright (C) 2019-... DLR Lightweight Systems
26 % Content
```

```
28
29 % Declare that this style file requires at least LaTeX version 2e.
30 \NeedsTeXFormat{LaTeX2e}
31
32 % Provide the name of your page, the date it was last updated, and a
      comment about what it's used for
33 \ProvidesPackage{stmhyperrefbase}[2023/02/12 STMs base hyperref package]
34
35 % -----
36 % Package
37 % -----
38
39 \@ifpackageloaded{hyperref}{
40 %\PackageWarning{stmhyperrefbase}{Hyperref package was already loaded!}
41 }{%
42
    % These options must be set at the time of \usepackage and can not be
      set using \hypersetup
    \PassOptionsToPackage{%
43
      bookmarks = true,
44
45
      pdfusetitle,%
46
    }{hyperref}
47
48
    \RequirePackage{hyperref}
49 }%
50
52 % That's it
54
55\, % Finally, we'll use \endinput to indicate that LaTeX can stop reading
      this file. LaTeX will ignore anything after this line.
56 \endinput
```

A.3. stmhyperrefpdfopts.sty

```
10 % - Preamble:
11 % - \usepackage{hyperrefpdfopts}
12 %
13 % Revisions: 2019-10-27 Martin Raedel <martin.raedel@dlr.de>
14 %
                         Initial draft
15 %
16 % Contact: Martin Raedel, martin.raedel@dlr.de
17 %
       DLR Lightweight Systems
18 %
19 %
                                  __/|__
20 %
                                  /_/_/_/
21 %
                                 |/ DLR
              www.dlr.de/sy/en
22 %
23 % Copyright (C) 2019-... DLR Lightweight Systems
24 %
26 % Content
29 % Declare that this style file requires at least LaTeX version 2e.
30 \NeedsTeXFormat{LaTeX2e}
31
32 % Provide the name of your page, the date it was last updated, and a
      comment about what it's used for
33 \ProvidesPackage{stmhyperrefpdfopts}[2023/02/12 STMs hyperref setup
      definitions]
34
35 % -----
36 % Options
37 % -----
38
39 % For options
40 \ensuremath{\mbox{\sc options}}{\mbox{\sc heaper}} \ensuremath{\mbox{\sc heaper}}{\mbox{\sc heaper}} \ensuremath{\mbox{\sc heaper}}{\mbox{\sc heaper}}
41
42 \SetupKeyvalOptions{%
43
    family=stmhyperrefpdfopts,%
44
   prefix=stmhyperrefpdfopts@,%
45
     setkeys=\kvsetkeys,%
46 }
47
48 % Style name
49 \DeclareStringOption[stmdefault]{style}
50
51 % Process options
```

```
52 \ProcessKeyvalOptions{stmhyperrefpdfopts}
53
54 % -----
55 % Style
56 % -----
57
58 \@namedef{stmhyperrefpdfopts@style@default}{%
59
     \% This here is empty to load the standard hyperref setup
60 }
61
62
   \@namedef{stmhyperrefpdfopts@style@stmdefault}{%
63
     \hypersetup{%
64
       pdfstartview = Fit, %
65
       pdfmenubar = true, %
66
       pdftoolbar = true, %
67
       bookmarksopen = false, %
68
     }%
69
  }
70
   \@namedef{stmhyperrefpdfopts@style@viewfitwmenuwtoolbarwobookmarksopen}{%
71
72
     \hypersetup{%
73
       pdfstartview = Fit,%
74
       pdfmenubar = true, %
       pdftoolbar = true, %
75
       bookmarksopen = false, %
76
77
     }%
78 }
79
80 % Evaluate option settings
81 % https://tex.stackexchange.com/a/249102
82 \newcommand*{\stmhyperrefpdfopts@evaluate}[1]{%
     % Check, if option value in \<prefix>@<option> exists
83
84
     \@ifundefined{stmhyperrefpdfopts@#1}{%
85
       % Should not happen
       \PackageError{stmhyperrefpdfopts}{Evaluating unknown option '#1'}\
86
       @ehc
87
     } { %
       \% Check, if there is an implementation for the value of the option
88
89
       % in macro \<prefix>@<option>@<value>
       \@ifundefined{stmhyperrefpdfopts@#1@\csname stmhyperrefpdfopts@#1\
90
       endcsname}{%
         \verb|\PackageError{stmhyperrefpdfopts}|{\%}|
91
92
           Unknown option setting: #1=%
93
           \csname stmhyperrefpdfopts@#1\endcsname
```

```
94
        }\@ehc
95
       }{%
96
         % Call the implementation for the value
97
         \csname stmhyperrefpdfopts@#1@%
98
               \csname stmhyperrefpdfopts@#1\endcsname
99
         \endcsname
100
         \relax
101
       }%
102
     }%
103 }
104
105 \stmhyperrefpdfopts@evaluate{style}
106
108 % That's it
110
111 % Finally, we'll use \endinput to indicate that LaTeX can stop reading
      this file. LaTeX will ignore anything after this line.
112 \endinput
```

A.4. stmhyperrefstyles.sty

```
2 % Header
                               %
4 %
5 % This file includes hyperref setup
6 % Based upon the hyperref package:
7
  % https://ctan.org/pkg/hyperref
8 %
9 % Usage
10 % - Preamble:
11 % - \usepackage{stmindexstyles}
12
13 % Revisions: 2019-10-27 Martin Raedel <martin.raedel@dlr.de>
14 %
                      Initial draft
15 %
16 % Contact: Martin Raedel, martin.raedel@dlr.de
17 %
             DLR Lightweight Systems
18 %
                              __/|__
19 %
20 %
                              /_/_/_/
                               |/ DLR
21 %
             www.dlr.de/sy/en
```

```
22 %
23 % Copyright (C) 2019-... DLR Lightweight Systems
24 %
26 % Content
27
29 % Declare that this style file requires at least LaTeX version 2e.
30 \NeedsTeXFormat{LaTeX2e}
31
32 % Provide the name of your page, the date it was last updated, and a
               comment about what it's used for
33 \ProvidesPackage{stmhyperrefstyles}[2023/02/12 STMs hyperref style
               definitions]
34
35 % -----
36 % Options
37 % -----
38
39 % For options
40 \ensuremath{\mbox{\sc original}{\mbox{\sc original}{\sc original}{\mbox{\sc original}{\mbox{\sc original}{\sc original}{\sc original}{\sc original}}}}}}}}} 
41
42 \SetupKeyvalOptions{%
43
           family=stmhyperrefstyles,%
44
           prefix=stmhyperrefstyles@,%
45
           setkeys=\kvsetkeys,%
46 }
47
48 % Style name
49 \DeclareStringOption[stmdefault]{style}
50
51 % Process options
52 \ProcessKeyvalOptions{stmhyperrefstyles}
53
54 % -----
55 % Style
56 % -----
57
58 \ensuremath{ \mbox{Qnamedef\{stmhyperrefstyles@style@default\}\{\%, \mbox{}} }
59
           % This here is empty to load the standard hyperref setup
60 }
61
62 \ \ensuremath{\mbox{\tt Qnamedef\{stmhyperrefstyles@style@colorlinkexternalblueinternalblack\}\{\%, \ensuremath{\mbox{\tt Numedef\{stmhyperrefstyles@style@colorlinkexternalblueinternalblack\}\{\%, \ensuremath{\mbox{\tt Numedef\{stmhyperrefstyles@style@colorlinkexternalblueinternalblack\}\{\%, \ensuremath{\mbox{\tt Numedef\{stmhyperrefstyles@style@colorlinkexternalblueinternalblack\}\}}}
63 \hypersetup{%
```

```
64
        colorlinks
                      = true, % Color text instead of boxes
65
        linkcolor
                      = black, % Color of internal links
                      = black, % Color of citations
66
        citecolor
67
        urlcolor
                      = blue, % Color of external urls
68
      }%
69 }
70
    \@namedef{stmhyperrefstyles@style@stmdefault}{%
71
72
      \@ifpackageloaded{stmcolor}{}{\RequirePackage{stmcolors}}%
73
      \hypersetup{%
74
                      = true, % Color text instead of boxes
        colorlinks
75
        linkcolor
                      = hyperrefstmtylelinkcolor, % Color of internal links
76
        citecolor
                      = hyperrefstmtylecitecolor, % Color of citations
77
                      = hyperrefstmtyleurlcolor, % Color of external urls
        urlcolor
78
      }%
79 }
80
   \@namedef{stmhyperrefstyles@style@colorlinkallblack}{%
82
      \hypersetup{%
83
        colorlinks
                      = true, % Color text instead of boxes
        linkcolor
84
                      = black, % Color of internal links
85
        citecolor
                      = black, % Color of citations
86
        urlcolor
                      = black, % Color of external urls
87
      }
88 }
89
90
    \@namedef{stmhyperrefstyles@style@colorlinkallblue}{%
91
      \hypersetup{%
        colorlinks
92
                      = true, % Color text instead of boxes
        linkcolor
93
                      = blue, % Color of internal links
94
                    = blue, % Color of citations
        citecolor
95
        urlcolor
                      = blue, % Color of external urls
96
      }
97 }
98
99 % Evaluate option settings
100 % https://tex.stackexchange.com/a/249102
101 \newcommand*{\stmhyperrefstyles@evaluate}[1]{\%
102
      % Check, if option value in \<prefix>@<option> exists
      \@ifundefined{stmhyperrefstyles@#1}{%
103
104
        % Should not happen
105
        \PackageError{stmhyperrefstyles}{Evaluating unknown option '#1'}\@ehc
106
107
      % Check, if there is an implementation for the value of the option
```

```
108
       % in macro \<prefix>@<option>@<value>
109
       \@ifundefined{stmhyperrefstyles@#1@\csname stmhyperrefstyles@#1\
       endcsname}{%
         \PackageError{stmhyperrefstyles}{%
110
111
           Unknown option setting: #1=%
112
           \csname stmhyperrefstyles@#1\endcsname
113
         }\@ehc
114
       }{%
115
         \% Call the implementation for the value
         \csname stmhyperrefstyles@#10%
116
                \csname stmhyperrefstyles@#1\endcsname
117
118
         \endcsname
119
         \relax
120
       }%
121
     }%
122 }
123
124
    \stmhyperrefstyles@evaluate{style}
125
127 % That's it
                                   %
129
130 % Finally, we'll use \endinput to indicate that LaTeX can stop reading
       this file. LaTeX will ignore anything after this line.
131
    \endinput
```