The bookmark package

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Abstract

This package implements a new bookmark (outline) organization for package hyperref. Bookmark properties such as style and color can now be set. Other action types are available (URI, GoToR, Named). The bookmarks are generated in the first compile run. Package hyperref uses two runs.

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^{*}Please report any issues at https://github.com/ho-tex/bookmark/issues

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			v1.2]	43				
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			v1.6]	43				
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			v1.10]	43				
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			v1.13]	43				
		, ,	v1.14]	44				
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1 Documentation

1.1 Introduction

This package bookmark tries to provide a more modern management for bookmarks:

- The bookmarks are already generated in the first TeX compile run.
- The font style and color of the bookmarks can be changed.
- More actions than simple GoTo actions are possible.

In the same way as hyperref [1] the bookmarks are generated in the order of the bookmark generating macros (\bookmark). A level number is used to define the tree structure of the bookmarks. The restrictions are less strict:

- The level values may jump and omit values. A \subsubsection may follow a \chapter. This was an error in hyperref, that prints a warning and tries to fix this.
- Several bookmarks may point to the same destination. In hyperref this would mess up the bookmark tree completely, because the algorithm assumes that the destination names are keys (unique).

Note that this package is intended as experimentation platform for bookmark management. Feedback is welcome. Also the interfaces may change in future versions.

1.2 Options

Options can be given at four places:

- 1. \usepackage[\langle options \rangle] \text{ bookmark} This is the only place for driver options and option atend.
- 2. \bookmarksetup{ $\langle options \rangle$ }
 This command is just for setting options.
- \bookmarksetupnext{\(\langle options\)\}\)
 The options are stored and called after the options of the next \(\bookmark\) command.
- 4. $\bookmark[\langle options \rangle] \{\langle title \rangle\}$ This command sets the bookmark. The option settings remain limited to this bookmark.

Exception: Driver options, option atend and options draft/final cannot be changed after the package is loaded.

1.2.1 Options draft and final

If a IATEX file is compiled several times, then a little time can be saved, if option draft is used to disable the bookmark stuff of this package. Default is final. Both options are boolean options, without value the value true is used. draft=true is the same as final=false.

Options of package bookmark are local options with the exception of driver options. Therefore draft or final given as class option is not seen by this package. If you want to optimize first LATEX runs depending on a global draft, then package ifdraft and LATEX's \PassOptionsToPackage might help in the organization of the preamble, for example:

```
\documentclass[draft]{article}
\usepackage{ifdraft}
\ifdraft{%
   \PassOptionsToPackage{draft}{bookmark}%
}{}
```

1.2.2 Driver options

Supported drivers are pdftex, dvips, dvipdfmx (xetex and older name dvipdfm), and vtex. The TEX engines pdfTEX, XHTEX, and VTEX are automatically detected. The default for the DVI drivers is dvips. This can be changed in the configuration file bookmark.cfg by \BookmarkDriverDefault, e.g.:

```
\def\BookmarkDriverDefault{dvipdfm}
```

The current versions of the drivers uses new LATEX-hooks and tests if the PDF management is active and so requires a format newer than 2022-06-01.

Open bookmarks with dvipdfmx. Older version of the package had an option dvipdfmx-outline-open to activate code which allows to specify the open status of an outline entry. The package now assumes that all used dvipdfmx version are current enough to understand this code and so activates the code always. The option itself will be ignored.

1.2.3 Layout options

Font options.

bold: The bookmark is shown with a bold font if the PDF viewer supports this (since PDF 1.4).

italic: An italic font is used (since PDF 1.4).

Both bold and italic can be used together. Using value false disables the font option.

Color option. Colored bookmarks are a feature of PDF 1.4, they are not supported by all PDF viewers.

color: Here the color can be given as color specification of packages color or xcolor. An empty value means that the color property is not set. Without package xcolor the recognized values are restricted to

- Empty value, no color is set, example: color={}
- Explicit color specification of color model rgb, example for red: color=[rgb]{1,0,0}
- Explicit color specification of color model gray, example for dark gray: color=[gray]{0.25}

Note that this restriction also holds if package color is loaded. With xcolor, however, the full range of color specifications can be used.

1.2.4 Action options

dest: Destination name.

page: Page number, first page is 1.

view: View specification, examples:

view={FitB}, view={FitH 842}, view={XYZ 0 100 null} Some view specification parameters expect numbers as parameters with unit bp. They can be given either as plain numbers or as length expressions inside \calc. Expressions of package calc are supported if the package is loaded. Otherwise ε -TFX's \dimexpr is used. Example:

view={FitH \calc{\paperheight-\topmargin-1in}}

view={XYZ 0 \calc{\paperheight} null}

Note that \calc cannot be used for the third parameter of XYZ. This parameter is the zoom value, not a length.

named: Named action name:

FirstPage, LastPage, NextPage, PrevPage

gotor: Name of the external PDF file.

uri: URI specification.

rawaction: Raw action specification. Because these specification depends on the driver this option should not be used.

The appropriate action for the bookmark is selected by analyzing the specified options. The actions are distinguished by different sets of options:

Action	${f Options}$
GoTo:	dest
GoTo:	page + view
GoToR:	gotor + dest
GoToR:	gotor + page + view
Named:	named
URI:	uri

Missing actions. If the action is missing package bookmark throws an error message. Depending on the driver (pdftex, dvips and friends) the package detects it quite late at the end of the document. Since version 2011/04/21 v1.21 the package tries printing the line number and file name of the corresponding occurrence of \bookmark. However, TeX does provide the line number, but unhappily the file name is a secret. The package supports some ways to get the file name:

- If LuaTeX (independently from DVI or PDF modes) is running, then its status.filename is used automatically.
- Package \currfile [2] redefines IATEX internals to keep track of the file name. If the package is loaded, then its \currfilepath is detected and used automatically by package bookmark.
- The file name can be set manually by option scrfile in \bookmarksetup or \bookmark. But be careful, manual setting disables the previous ways for file name detection. And a wrong or missed file name setting might get you a wrong source location in the error message.

1.2.5 Level options

The order of the bookmark entries are defined by the appearance order of \bookmark commands. The tree structure is constructed by the property level of the bookmark nodes. The values of level are integers. If the level of a bookmark entry has a higher value than the previous node, then the entry becomes a child of the previous node. The absolute value of the difference does not matter.

Package bookmark remembers the level of the previous bookmark entry in a global property 'current level'.

The behaviour of the level system can be configured by following options:

level: Sets the level, see the description above. If option level is given without value, then the default behaviour is restored, that the 'current level' is used as level value. Since version 2010/10/19 v1.16 package bookmark also supports names part, section and other, if the macros \toclevel@part, \toclevel@section are defined (done by package hyperref, see option bookmarkdepth).

rellevel: Sets the level relative to the previous level. A positive value means that the bookmark entry become a child of the previous one.

keeplevel: Use the level, set by level or rellevel, but do not change the global property 'current level'. The option can be disabled by setting to false.

startatroot: At this time the bookmark tree starts at the top level again. The next bookmark entry is not sorted as child to a previous entry. Example scenario: A document uses part. However there are last chapters that should not be put below the last part:

```
\documentclass{book}
[...]
\begin{document}
  \part{First part}
    \chapter{First chapter in first part}
    [...]
  \part{Second part}
    \chapter{First chapter in second part}
    [...]
  \bookmarksetup{startatroot}
  \chapter{Index}% does not belong to second part}
end{document}
```

1.2.6 Style definitions

A style is a group of option settings. It can be defined by macro \bookmarkdefinestyle and is used by option style.

```
\bookmarkdefinestyle \{\langle name \rangle\}\ \{\langle key\ value\ list \rangle\}
```

The $\langle key \ value \ list \rangle$ of option settings is assigned the style $\langle name \rangle$.

style: The value of option style is the name of a previously defined style. Its option settings are now executed. The options may include option style. Endless recursion by calling the same style recursively is prevented and throws an error.

1.2.7 Hook support

A hook is called right after the processing the optional options of macro

addtohook: Code, given as value to this option is added to the hook.

```
\box{bookmarkget} \{\langle option 
angle \}
```

```
bold, italic, open
```

Other supported options:

```
depth, dest, color, gotor, level, named, openlevel, page, rawaction, uri, view,
```

Additionally the following key is available:

```
text
```

It returns the text of the outline entry.

Option setting. Inside the hook an option can be set using \bookmarksetup.

1.3 Compatibility with hyperref

Package bookmark automatically disables hyperref's bookmarks. However the package uses some of the code of hyperref. For example, the package redefines the hook \Hy@writebookmark that hyperref inserts in \addcontentsline and other commands. Therefore hyperref's bookmarks should not be disabled.

Package bookmark uses hyperref's \pdfstringdef and does not provide a replacement.

Some options of hyperref are also implemented in package bookmark:

hyperref	bookmark
bookmarksdepth	depth
bookmarksopen	open
bookmarksopenlevel	openlevel
bookmarksnumbered	numbered

The following commands are also available:

```
\pdfbookmark
\currentpdfbookmark
\subpdfbookmark
\belowpdfbookmark
```

1.4 Adding bookmarks at the end

Package option atend enables the following macro:

```
\BookmarkAtEnd \{\langle stuff \rangle\}
```

Macro \BookmarkAtEnd puts $\langle stuff \rangle$ at the end of the document. $\langle stuff \rangle$ means bookmark commands. Example:

```
\usepackage[atend]{bookmark}
\BookmarkAtEnd{%
  \bookmarksetup{startatroot}%
  \bookmark[named=LastPage, level=0]{Last page}%
}
```

Alternatively, option startatroot can be given in \bookmark:

```
\BookmarkAtEnd{%
  \bookmark[
    startatroot,
    named=LastPage,
    level=0,
  ]{Last page}%
}
```

Remarks.

• \BookmarkAtEnd hides the fact that the method for adding bookmarks at the end of the document depends on the driver.

The driver pdftex use package atveryend's for this purpose. \AtEndDocument is too early, the last page might not been shipped out. Because the .aux file is needed, this driver use \AfterLastShipout.

The implementation of the other drivers (dvipdfm, xetex, vtex) depends on \special that does not have an effect after the last page. In this case \AtEndDvi of package atenddvi helps. It puts its argument on last page of the document. Two LATEX runs are necessary at least, because the last page is detected by a reference.

dvips uses now the new LaTeX hook shipout/lastpage.

• The time of expansion of the argument of \BookmarkAtEnd is not specified.

This can happen immediately or at the end of the document.

1.5 Structure destinations

If tagging is activated with e.g.

\DocumentMetadata{testphase=phase-III} %or some other phase a

the outlines will also use structure destinations, these are destination bound not to a page but to a structure. This works only with pdftex, luatex and xetex/dvipdfmx.

1.6 Limitations/ToDos

- Support for missing actions (Launch, ...).
- Better design for hyperref's option bookmarkstype.

2 Example

```
1 (*example)
 2 \documentclass{article}
 3 \usepackage{xcolor}[2007/01/21]
 4 \usepackage{hyperref}
 5 \usepackage[
    open,
    openlevel=2,
    atend
9 ] {bookmark} [2019/12/03]
10
11 \bookmarksetup{color=blue}
12
13 \BookmarkAtEnd{%
    \bookmarksetup{startatroot}%
14
    \bookmark[named=LastPage, level=0]{End/Last page}%
15
16
    \bookmark[named=FirstPage, level=1]{First page}%
17 }
18
19 \begin{document}
20 \section{First section}
21 \subsection{Subsection A}
22 \begin{figure}
23
    \hypertarget{fig}{}%
   A figure.
```

```
25 \end{figure}
26 \bookmark[
27 rellevel=1,
28 keeplevel,
29 dest=fig
30 ]{A figure}
31 \subsection{Subsection B}
32 \subsubsection {Subsubsection C}
33 \subsection{Umlauts: \"A\"0\"U\"a\"o\"u\ss}
34 \setminus newpage
35 \bookmarksetup{
36 bold,
37 color=[rgb]{1,0,0}
38 }
39 \section{Very important section}
40 \bookmarksetup{
41 italic,
42 bold=false,
43 color=blue
44 }
45 \subsection{Italic section}
46 \bookmarksetup{
47 italic=false
48 }
49 \part{Misc}
50 \section{Diverse}
51 \subsubsection{Subsubsection, omitting subsection}
52 \bookmarksetup{
53 startatroot
54 }
55 \section{Last section outside part}
56 \subsection{Subsection}
57 \bookmarksetup{
58 color={}
59 }
60 \begingroup
61 \bookmarksetup{level=0, color=green!80!black}
62 \bookmark[named=FirstPage]{First page}
63 \bookmark[named=LastPage]{Last page}
64 \bookmark[named=PrevPage]{Previous page}
65 \bookmark[named=NextPage]{Next page}
66 \endgroup
67 \bookmark[
68 page=2,
69
   view=FitH 800
70 ]{Page 2, FitH 800}
71 \bookmark[
72 page=2,
   view=FitBH \calc{\paperheight-\topmargin-1in-\headheight-\headsep}
74]{Page 2, FitBH top of text body}
75 \bookmark[
76 uri={http://www.dante.de/},
77 color=magenta
78 ] {Dante homepage}
79 \bookmark[
80 gotor={t.pdf},
81 page=1,
82 view={XYZ 0 1000 null},
83 color=cyan!75!black
84 ]{File t.pdf}
85 \bookmark[named=FirstPage]{First page}
86 \bookmark[rellevel=1, named=LastPage]{Last page (rellevel=1)}
```

```
87 \bookmark[named=PrevPage]{Previous page}
                    88 \bookmark[level=0, named=FirstPage]{First page (level=0)}
                    89 \bookmark[
                    90 rellevel=1,
                    91 keeplevel,
                        named=LastPage
                    93 ]{Last page (rellevel=1, keeplevel)}
                    94 \bookmark[named=PrevPage]{Previous page}
                    95 \end{document}
                    96 (/example)
                        Implementation
                   3.1 Package
                    97 (*package)
                    98 \NeedsTeXFormat{LaTeX2e}
                    99 \ProvidesPackage{bookmark}%
                        [2023-12-10 v1.31 PDF bookmarks (HO)]%
                   3.1.1 Requirements
                   \varepsilon-T<sub>E</sub>X.
    \BKM@CalcExpr
                    101 \begingroup\expandafter\expandafter\expandafter\endgroup
                    102 \expandafter\ifx\csname numexpr\endcsname\relax
                        \def\BKM@CalcExpr#1#2#3#4{%
                    104
                           \begingroup
                             \c =#2\relax
                    105
                             \advance\count@ by#3#4\relax
                    106
                    107
                             \edef\x{\endgroup
                               \def\noexpand#1{\the\count@}%
                    108
                             }%
                    109
                    110
                           \x
                        }%
                    111
                    112 \ensuremath{\setminus} else
                    113
                        \def\BKM@CalcExpr#1#2#3#4{%
                    114
                           \edef#1{%
                    115
                             \theta = \frac{2#3#4}{elax}
                    116
                           }%
                        }%
                   117
                   118 \fi
                   Escape features of pdfTEX.
  \BKM@EscapeName
                    119 \def\BKM@EscapeName#1{%}
                    120 \ifx#1\@empty
                    121
                        \else
                           \EdefEscapeName#1#1%
                    123 \fi
                    124 }%
\BKM@EscapeString
                    125 \def\BKM@EscapeString#1{%
```

126 \ifx#1\@empty 127 \else

129 \fi 130 }%

\EdefEscapeString#1#1%

```
\BKM@EscapeHex
                          131 \def\BKM@EscapeHex#1{%
                          132 \quad \text{ifx#1} \in 
                          133 \else
                          134
                                 \EdefEscapeHex#1#1%
                          135 \fi
                          136 }%
        \BKM@UnescapeHex
                          137 \def\BKM@UnescapeHex#1{%
                               \EdefUnescapeHex#1#1%
                          139 }%
                         Some helper commands Replaces some commands from ltxcmds:
      \BKM@ReturnAfterFi
              \BKM@space
                         140 \ExplSyntaxOn
\BKM@GlobalAppendToMacro
                         141 \let\BKM@LocalAppendToMacro\tl_put_right:Nn
 \BKM@LocalAppendToMacro 142 \let\BKM@GlobalAppendToMacro\tl_gput_right:Nn
                          143 \ExplSyntaxOff
                          144 \def\BKM@space{ }
                          145 \long\def\BKM@ReturnAfterFi#1\fi{\fi#1}
                         Packages. Don't load packages loaded by xpackagehyperref
                          146 \RequirePackage{hyperref}[2010/06/18]
                         3.1.2 Package options
                          147 \SetupKeyvalOptions{family=BKM,prefix=BKM@}
                          148 \DeclareLocalOptions{%
                          149 atend, %
                          150 bold,%
                              color,%
                          151
                          152 depth,%
                          153 dest,%
                          154 draft,%
                          155 final,%
                          156 gotor,%
                          157 italic,%
                          158 keeplevel,%
                          159
                               level,%
                               named, %
                          160
                               numbered,%
                          161
                               open,%
                          162
                          163
                               openlevel,%
                          164
                               page,%
                               rawaction,%
                          165
                               rellevel,%
                          166
                          167
                               srcfile,%
                          168
                               srcline,%
                               startatroot,%
                          169
                               uri,%
                          170
                          171
                               view,%
                          172 }
          \bookmarksetup
                          173 \newcommand*{\bookmarksetup}{\kvsetkeys{BKM}}}
              \BKM@setup
                          174 \def\BKM@setup#1{%
```

175 \bookmarksetup{#1}%

```
\ifx\BKM@HookNext\@empty
                     176
                     177
                          \else
                            \expandafter\bookmarksetup\expandafter{\BKM@HookNext}%
                     178
                            \BKM@HookNextClear
                     179
                     180
                          \fi
                          \BKM@hook
                     181
                     182
                          \ifBKM@keeplevel
                     183
                          \else
                            \xdef\BKM@currentlevel{\BKM@level}%
                     184
                          \fi
                     185
                     186 }
 \bookmarksetupnext
                     187 \newcommand*{\bookmarksetupnext}[1]{%
                          \BKM@GlobalAppendToMacro\BKM@HookNext{,#1}%
                     188
                     189 }
     \BKM@setupnext
 \BKM@HookNextClear
                     190 \def\BKM@HookNextClear{%
                     191 \global\let\BKM@HookNext\@empty
                     192 }
      \BKM@HookNext
                     193 \BKM@HookNextClear
                     194 \DeclareBoolOption{draft}
                     195 \DeclareComplementaryOption{final}{draft}
\BKM@DisableOptions
                     196 \def\BKM@DisableOptions{%
                          \DisableKeyvalOption[action=warning,package=bookmark]%
                     198
                              {BKM}{draft}%
                          \DisableKeyvalOption[action=warning,package=bookmark]%
                     199
                              {BKM}{final}%
                     200
                     201 }
                     202 \DeclareBoolOption[\ifHy@bookmarksopen true\else false\fi]{open}
     \bookmark@open
                     203 \def\bookmark@open{%
                     204
                          \ifBKM@open\@ne\else\z@\fi
                     205 }
                     206 \DeclareStringOption[\maxdimen]{openlevel}
     \BKM@openlevel
                     207 \edgn{KM@openlevel{number@bookmarksopenlevel}}
                     208 %\DeclareStringOption[\c@tocdepth] {depth}
                     209 \@ifundefined{Hy@bookmarksdepth}{%
                     210
                         \def\BKM@depth{\c@tocdepth}%
                     211 }{%
                          \let\BKM@depth\Hy@bookmarksdepth
                     212
                     213 }
                     214 \define@key{BKM}{depth}[]{%
                     215
                          \edef\BKM@param{#1}%
                     216
                          \ifx\BKM@param\@empty
                            \def\BKM@depth{\c@tocdepth}%
                     217
                          \else
                     218
                            219
                              \@onelevel@sanitize\BKM@param
                     220
```

```
\edef\BKM@temp{\expandafter\@car\BKM@param\@nil}%
                       221
                                 \ifcase 0\expandafter\ifx\BKM@temp-1\fi
                       222
                                          \expandafter\ifnum\expandafter'\BKM@temp>47 %
                       223
                                            \expandafter\ifnum\expandafter'\BKM@temp<58 %
                       224
                       225
                                              1%
                       226
                                            \fi
                       227
                                          \fi
                       228
                                          \relax
                       229
                                   \PackageWarning{bookmark}{%
                                      Unknown document division name (\BKM@param)\MessageBreak
                       230
                                      for option 'depth'%
                       231
                                   }%
                       232
                       233
                                 \else
                                    \BKM@SetDepthOrLevel\BKM@depth\BKM@param
                       234
                                 \fi
                       235
                       236
                               }{%
                                  \BKM@SetDepthOrLevel\BKM@depth{%
                       237
                                    \csname toclevel@\BKM@param\endcsname
                       238
                                 }%
                       239
                       240
                               }%
                       241
                             \fi
                       242 }
     \bookmark@depth
                       243 \def\bookmark@depth{\BKM@depth}
\BKM@SetDepthOrLevel
                       244 \def\BKM@SetDepthOrLevel#1#2{%
                       245
                             \begingroup
                               \scalebox\z@=\hbox{%}
                       246
                                  \count@=#2\relax
                       247
                       248
                                  \expandafter
                       249
                             \expandafter\endgroup
                       250
                             \expandafter\def\expandafter#1\expandafter{\the\count@}%
                       251
                       252 }
                       253 \verb|\DeclareStringOption[\BKM@currentlevel]{level}[\BKM@currentlevel]| \\
                       254 \define@key{BKM}{level}{%
                             \edef\BKM@param{#1}%
                       255
                             \verb|\fx\BKM@param\BKM@MacroCurrentLevel| \\
                       256
                               \let\BKM@level\BKM@param
                       257
                             \else
                       258
                       259
                               \@ifundefined{toclevel@\BKM@param}{%
                       260
                                 \@onelevel@sanitize\BKM@param
                       261
                                  \edef\BKM@temp{\expandafter\@car\BKM@param\@nil}%
                       262
                                 \ifcase 0\expandafter\ifx\BKM@temp-1\fi
                                          \expandafter\ifnum\expandafter'\BKM@temp>47 %
                       263
                                            \verb|\expandafter\ifnum\expandafter'\BKM@temp<58 %
                       264
                       265
                                              1%
                                            \fi
                       266
                                          \fi
                       267
                       268
                                          \relax
                       269
                                    \PackageWarning{bookmark}{%
                       270
                                      Unknown document division name (\BKM@param)\MessageBreak
                       271
                                      for option 'level'%
                       272
                                   }%
                       273
                                 \else
                                    \verb|\BKM@SetDepthOrLevel\BKM@level\BKM@param| \\
                       274
                       275
                                 \fi
                               }{%
                       276
                                  \BKM@SetDepthOrLevel\BKM@level{%
                       277
                                   \csname toclevel@\BKM@param\endcsname
                       278
```

```
}%
                        279
                        280
                        281
                            \fi
                        282 }
 \BKM@MacroCurrentLevel
                        283 \def\BKM@MacroCurrentLevel{\BKM@currentlevel}
                        284 \DeclareBoolOption{keeplevel}
                        285 \DeclareBoolOption{startatroot}
  \BKM@startatrootfalse
                        286 \def\BKM@startatrootfalse{%
                        287 \quad \verb|\global| let \| if BKM@startatroot \| iff alse
                        288 }
   \BKM@startatroottrue
                        289 \def\BKM@startatroottrue{%
                        290 \global\let\ifBKM@startatroot\iftrue
                        291 }
                        292 \define@key{BKM}{rellevel}{%
                        293 \BKM@CalcExpr\BKM@level{#1}+\BKM@currentlevel
                        294 }
        \bookmark@level
                        295 \def\bookmark@level{\BKM@level}
      \BKM@currentlevel
                        296 \def\BKM@currentlevel{0}
                       Make bookmark's option numbered an alias for hyperref's bookmarksnumbered.
                        297 \DeclareBoolOption[%
                        298 \ifHy@bookmarksnumbered true\else false\fi
                        299 ] {numbered}
                        300 \g@addto@macro\BKM@numberedtrue{%
                        301 \let\ifHy@bookmarksnumbered\iftrue
                        302 }
                        303 \g@addto@macro\BKM@numberedfalse{%
                        305 }
                        \let\ifBKM@numbered\iftrue
                        307
                        308 }
                        \let\ifBKM@numbered\iffalse
                        311 }
     \bookmark@numbered
                        312 \def\bookmark@numbered{%
                            \ifBKM@numbered\@ne\else\z@\fi
                       Redefinitions hyperref's options
\BKM@PatchHyperrefOption
                        315 \def\BKM@PatchHyperrefOption#1{%
                        316 \expandafter\BKM@@PatchHyperrefOption\csname KV@Hyp@#1\endcsname%
                        317 }
```

```
\BKM@@PatchHyperrefOption
                             318 \def\BKM@@PatchHyperrefOption#1{%
                                   \expandafter\BKM@@@PatchHyperrefOption#1{##1}\BKM@nil#1%
                             320 }
\BKM@@@PatchHyperrefOption
                             321 \def\BKM@@@PatchHyperrefOption#1\BKM@ni1#2#3{%
                                   \def#2##1{%
                             322
                             323
                                     \bookmarksetup{#3={##1}}%
                             324
                                  }%
                             325
                             326 }
                             327 \BKM@PatchHyperrefOption{bookmarksopen}{open}
                             328 \BKM@PatchHyperrefOption{bookmarksopenlevel}{openlevel}
                             329 \BKM@PatchHyperrefOption{bookmarksdepth}{depth}
                             Font style options. Caution: Package bitset is zero-based, the PDF specifica-
                             tions starts with one.
                             330 \bitsetReset{BKM@FontStyle}%
                             331 \define@key{BKM}{italic}[true]{%
                                   \expandafter\ifx\csname if#1\endcsname\iftrue
                             332
                                     \bitsetSet{BKM@FontStyle}{0}%
                             333
                             334
                             335
                                     \bitsetClear{BKM@FontStyle}{0}%
                                  \fi
                             336
                             337 }%
                             338 \define@key{BKM}{bold}[true]{%
                                  \expandafter\ifx\csname if#1\endcsname\iftrue
                             339
                                     \bitsetSet{BKM@FontStyle}{1}%
                             340
                             341
                                   \else
                             342
                                     \bitsetClear{BKM@FontStyle}{1}%
                             343
                                  \fi
                             344 }%
          \bookmark@italic
                             345 \def\bookmark@italic{%
                             346 \quad \text{lifnum\bitsetGet\{BKM@FontStyle\}\{0\}=1 \enclose\z@fi}
                             347 }
            \bookmark@bold
                             348 \def\bookmark@bold{%
                                  \ifnum\bitsetGet{BKM@FontStyle}{1}=1 \@ne\else\z@\fi
                             350 }
           \BKM@PrintStyle
                             351 \def\BKM@PrintStyle{%
                             352 \bitsetGetDec{BKM@FontStyle}%
                             353 }%
                             Options for color.
                             354 \ensuremath{\mbox{define@key{BKM}{color}{\mathbb{K}}}}
                                  \HyColor@BookmarkColor{#1}\BKM@color{bookmark}{color}%
                             356 }
                 \BKM@color
                             357 \let\BKM@color\@empty
           \bookmark@color
                             358 \def\bookmark@color{\BKM@color}
```

3.1.3 Action options

```
359 \def\BKM@temp#1{%
                            \DeclareStringOption{#1}%
                      360
                            \expandafter\edef\csname bookmark@#1\endcsname{%
                      361
                       362
                              \expandafter\noexpand\csname BKM@#1\endcsname
                      363
                           }%
                       364 }
     \bookmark@dest
                       365 \BKM@temp{dest}
    \bookmark@named
                       366 \BKM@temp{named}
      \bookmark@uri
                       367 \BKM@temp{uri}
    \bookmark@gotor
                       368 \BKM@temp{gotor}
\bookmark@rawaction
                       369 \BKM@temp{rawaction}
                       370 \ensuremath{\mbox{define@key{BKM}{page}{\mathscr{\%}}}}
                           \def\BKM@page{#1}%
                      371
                            \ifx\BKM@page\@empty
                      372
                           \else
                      373
                      374
                              \edef\BKM@page{\number\BKM@page}%
                      375
                              \ifnum\BKM@page>\z@
                      376
                      377
                                 \PackageError{bookmark}{Page must be positive}\@ehc
                      378
                                 \def\BKM@page{1}%
                      379
                              \fi
                      380 \fi
                      381 }
           \BKM@page
                       382 \let\BKM@page\@empty
     \bookmark@page
                       383 \def\bookmark@page{\BKM@@page}
                       384 \ensuremath{\mbox{define@key{BKM}}{view}{\%}}
                      385 \BKM@CheckView{#1}%
                      386 }
           \BKM@view
                       387 \let\BKM@view\@empty
     \bookmark@view
                       388 \def\bookmark@view{\BKM@view}
      BKM@CheckView
                       389 \def\BKM@CheckView#1{\%}
                           \BKM@CheckViewType#1 \@nil
                      390
                      391 }
 \BKM@CheckViewType
                       392 \def\BKM@CheckViewType#1 #2\@nil{%
                            \def\BKM@type{#1}%
                       394
                            \@onelevel@sanitize\BKM@type
```

```
\BKM@TestViewType{Fit}{}%
                    395
                          \BKM@TestViewType{FitB}{}%
                    396
                          \BKM@TestViewType{FitH}{%
                    397
                            \BKM@CheckParam#2 \@ni1{top}%
                    398
                    399
                    400
                          \BKM@TestViewType{FitBH}{%
                    401
                            \BKM@CheckParam#2 \@ni1{top}%
                    402
                          \BKM@TestViewType{FitV}{%
                    403
                            \BKM@CheckParam#2 \@nil{bottom}%
                    404
                    405
                          \BKM@TestViewType{FitBV}{%
                    406
                            \BKM@CheckParam#2 \@nil{bottom}%
                    407
                    408
                          \BKM@TestViewType{FitR}{%
                    409
                    410
                            \BKM@CheckRect{#2}{ }%
                    411
                          \BKM@TestViewType{XYZ}{%
                    412
                           \BKM@CheckXYZ{#2}{ }%
                    413
                    414
                         }%
                          \@car{%
                    415
                            \PackageError{bookmark}{%
                    416
                              Unknown view type '\BKM@type',\MessageBreak
                    417
                              using 'FitH' instead%
                    418
                    419
                            \ \ensuremath{\mbox{Qehc}}
                    420
                            \def\BKM@view{FitH}%
                         }%
                    421
                    422
                         \@nil
                    423 }
\BKM@TestViewType
                    424 \def\BKM@TestViewType#1{%
                    425
                         \def\BKM@temp{#1}%
                         \verb|\@onelevel@sanitize| BKM@temp|
                    426
                    427
                         \ifx\BKM@type\BKM@temp
                            \let\BKM@view\BKM@temp
                    428
                            \expandafter\@car
                    429
                    430
                         \else
                    431
                            \expandafter\@gobble
                         \fi
                    432
                    433 }
   BKM@CheckParam
                    434 \def\BKM@CheckParam#1 #2\@nil#3{%
                         \def\BKM@param{#1}%
                    435
                         \ifx\BKM@param\@empty
                    436
                            \PackageWarning{bookmark}{%
                    437
                              Missing parameter (#3) for '\BKM@type',\MessageBreak
                    438
                    439
                              using 0%
                    440
                            }%
                    441
                            \def\BKM@param{0}%
                    442 \else
                            \BKM@CalcParam
                    443
                    444
                         \edef\BKM@view{\BKM@view\space\BKM@param}%
                    445
                    446 }
    BKM@CheckRect
                    447 \def\BKM@CheckRect#1#2{%
                         \BKM@@CheckRect#1#2#2#2#2\@nil
                    449 }
```

\BKM@@CheckRect

```
450 \def\BKM@@CheckRect#1 #2 #3 #4 #5\@nil{%
                     \def\BKM@temp{0}%
                451
                     \def\BKM@param{#1}%
                452
                     \ifx\BKM@param\@empty
                453
                454
                       \def\BKM@param{0}%
                455
                       \def\BKM@temp{1}%
                     \else
                456
                       \BKM@CalcParam
                457
                     \fi
                458
                     \edef\BKM@view\space\BKM@param}%
                459
                     \def\BKM@param{#2}%
                460
                461
                     \ifx\BKM@param\@empty
                462
                       \def\BKM@param{0}%
                463
                       \def\BKM@temp{1}%
                464
                     \else
                465
                       \BKM@CalcParam
                     \fi
                466
                     \edef\BKM@view\space\BKM@param}%
                467
                     468
                     \ifx\BKM@param\@empty
                469
                       \def\BKM@param{0}%
                470
                       \def\BKM@temp{1}%
                471
                472
                     \else
                       \BKM@CalcParam
                473
                474
                     \fi
                475
                     \edef\BKM@view\space\BKM@param}%
                476
                     \def\BKM@param{#4}%
                477
                     \ifx\BKM@param\@empty
                       \def\BKM@param{0}%
                478
                       \def\BKM@temp{1}%
                479
                     \else
                480
                       \BKM@CalcParam
                481
                482
                     \fi
                     \edef\BKM@view{\BKM@view\space\BKM@param}%
                483
                     \int BKM@temp>\z@
                484
                485
                       \PackageWarning{bookmark}{Missing parameters for '\BKM@type'}%
                486
                     \fi
                487 }
\BKM@CheckXYZ
                488 \def\BKM@CheckXYZ#1#2{%
                     \BKM@@CheckXYZ#1#2#2\@nil
                490 }
\BKM@@CheckXYZ
                491 \def\BKM@@CheckXYZ#1 #2 #3 #4\@ni1{%
                492
                     \def\BKM@param{#1}%
                     \let\BKM@temp\BKM@param
                493
                     \@onelevel@sanitize\BKM@temp
                494
                     \ifx\BKM@param\@empty
                495
                496
                       \let\BKM@param\BKM@null
                497
                     \else
                       \ifx\BKM@temp\BKM@null
                498
                499
                       \else
                         \BKM@CalcParam
                500
                       \fi
                501
                     \fi
                502
                     \edef\BKM@view{\BKM@view\space\BKM@param}%
                503
                     \def\BKM@param{#2}%
                504
                     \let\BKM@temp\BKM@param
                505
                     \@onelevel@sanitize\BKM@temp
```

```
\ifx\BKM@param\@empty
                      507
                              \let\BKM@param\BKM@null
                      508
                      509
                            \else
                              \ifx\BKM@temp\BKM@null
                      510
                      511
                              \else
                      512
                                \BKM@CalcParam
                      513
                              \fi
                      514
                            \fi
                            \edef\BKM@view\space\BKM@param}%
                      515
                            \def\BKM@param{#3}%
                      516
                            \ifx\BKM@param\@empty
                      517
                              \let\BKM@param\BKM@null
                      518
                            \fi
                      519
                            \edef\BKM@view\space\BKM@param}%
                      520
                      521 }
           \BKM@null
                      522 \def\BKM@null{null}
                      523 \@onelevel@sanitize\BKM@null
      \BKM@CalcParam
                      524 \def\BKM@CalcParam{%
                      525
                           \begingroup
                           \let\calc\@firstofone
                      526
                            \expandafter\BKM@@CalcParam\BKM@param\@empty\@empty\@nil
                      527
                      528 }
     \BKM@@CalcParam
                      529 \def\BKM@@CalcParam#1#2#3\@nil{%
                           \ifx\calc#1%
                      530
                              \@ifundefined{calc@assign@dimen}{%
                      531
                                \@ifundefined{dimexpr}{%
                      532
                                  \setlength{\dimen@}{#2}%
                      533
                                }{%
                      534
                                  \setlength{\dimen@}{\dimexpr#2\relax}%
                      535
                                }%
                      536
                      537
                              }{%
                      538
                                \setlength{\dimen@}{#2}%
                              }%
                      539
                              \dimen@.99626\dimen@
                      540
                      541
                              \edef\BKM@param{\strip@pt\dimen@}%
                      542
                              \expandafter\endgroup
                              \expandafter\def\expandafter\BKM@param\expandafter{\BKM@param}%
                      543
                            \else
                      544
                              \endgroup
                      545
                      546
                            \fi
                      547 }
                      3.1.4
                             Option atend
                      548 \DeclareBoolOption{atend}
                      549 \verb|\g@addto@macro\BKM@DisableOptions{%}|
                            \DisableKeyvalOption[action=warning,package=bookmark]%
                      550
                                {BKM}{atend}%
                      551
                      552 }
                      3.1.5
                            Option style
\bookmarkdefinestyle
                      553 \newcommand*{\bookmarkdefinestyle}[2]{%
                            \@ifundefined{BKM@style@#1}{%
                      554
                      555
                            }{%
                      556
                              \PackageInfo{bookmark}{Redefining style '#1'}%
```

```
}%
                       557
                            \@namedef{BKM@style@#1}{#2}%
                       558
                       559 }
                       560 \fine@key{BKM}{style}{\%}
                            \BKM@StyleCall{#1}%
                       563 \newif\ifBKM@ok
      \BKM@StyleCall
                       564 \def\BKM@StyleCall#1{%
                            \@ifundefined{BKM@style@#1}{%
                       565
                       566
                              \PackageWarning{bookmark}{%
                       567
                                Ignoring unknown style '#1'%
                       568
                       569
                           }{%
                      Check style stack.
                              \BKM@oktrue
                       570
                              \edef\BKM@StyleCurrent{#1}%
                       571
                       572
                              \@onelevel@sanitize\BKM@StyleCurrent
                              \let\BKM@StyleEntry\BKM@StyleEntryCheck
                       573
                       574
                              \BKM@StyleStack
                              \ifBKM@ok
                       575
                                \expandafter\@firstofone
                       576
                              \else
                       577
                                \PackageError{bookmark}{%
                       578
                                  Ignoring recursive call of style '\BKM@StyleCurrent'%
                       579
                       580
                       581
                                 \expandafter\@gobble
                       582
                              \fi
                       583
                      Push current style on stack.
                                \let\BKM@StyleEntry\relax
                       584
                                \edef\BKM@StyleStack{%
                       585
                       586
                                   \BKM@StyleEntry{\BKM@StyleCurrent}%
                       587
                                   \BKM@StyleStack
                                }%
                       588
                      Call style.
                       589
                                \expandafter\expandafter\bookmarksetup
                       590
                                \expandafter\expandafter\expandafter{%
                       591
                                  \csname BKM@style@\BKM@StyleCurrent\endcsname
                       592
                                }%
                      Pop current style from stack.
                                 \BKM@StyleStackPop
                       593
                       594
                              }%
                       595
                            }%
                       596 }
  \BKM@StyleStackPop
                       597 \def\BKM@StyleStackPop{%
                            \let\BKM@StyleEntry\relax
                       598
                            \edef\BKM@StyleStack{%
                       599
                       600
                              \expandafter\@gobbletwo\BKM@StyleStack
                       601
                       602 }
\BKM@StyleEntryCheck
                       603 \def\BKM@StyleEntryCheck#1{%
                            \def\BKM@temp{#1}%
                       604
                            \ifx\BKM@temp\BKM@StyleCurrent
                       605
```

```
606
                               \BKM@okfalse
                        607
                             \fi
                        608 }
       \BKM@StyleStack
                        609 \def\BKM@StyleStack{}
                       3.1.6 Options for source file location
                        610 \DeclareStringOption{srcline}
                        611 \DeclareStringOption{srcfile}
                       3.1.7 Hook support
             \BKM@hook
                        612 \def\BKM@hook{}
                        613 \define@key{BKM}{addtohook}{%}
                        614 \BKM@LocalAppendToMacro\BKM@hook{#1}%
                        615 }
           bookmarkget
                        616 \newcommand*{\bookmarkget}[1]{%
                             \romannumeral0%
                        617
                             \@ifundefined{bookmark@#1}{%
                        618
                               \BKM@space
                        619
                             }{%
                        620
                               \expandafter\expandafter\BKM@space
                        621
                                \csname bookmark@#1\endcsname
                        622
                             }%
                        623
                        624 }
                       3.1.8 Driver setup and loading
                       Driver detection.
  \BKM@DefineDriverKey
                        625 \def\BKM@DefineDriverKey#1{%
                             \define@key{BKM}{#1}[]{%
                        626
                        627
                               \def\BKM@driver{#1}%
                        628
                        629
                              \g@addto@macro\BKM@DisableOptions{%
                                \DisableKeyvalOption[action=warning,package=bookmark]%
                        630
                                    {BKM}{#1}%
                        631
                             }%
                        632
                        633 }
                        634 \BKM@DefineDriverKey{pdftex}
                        635 \BKM@DefineDriverKey{dvips}
                        636 \BKM@DefineDriverKey{dvipdfm}
                        637 \BKM@DefineDriverKey{dvipdfmx}
                        638 \BKM@DefineDriverKey{xetex}
                        639 \BKM@DefineDriverKey{vtex}
                        640 \define@key{BKM}{dvipdfmx-outline-open}[true]{%
                            \PackageWarning{bookmark}{Option 'dvipdfmx-outline-open' is obsolete
                              and ignored}{}}
      \bookmark@driver
                        643 \def\bookmark@driver{\BKM@driver}
                        644 \InputIfFileExists{bookmark.cfg}{}{}
\BookmarkDriverDefault
```

645 \providecommand*{\BookmarkDriverDefault}{dvips}

```
\BKM@driver LuaTFX and pdfTFX share driver.
              646 \ifpdf
                   \def\BKM@driver{pdftex}%
                   \ifx\pdfoutline\@undefined
              649
                     \ifx\pdfextension\@undefined\else
              650
                        \protected\def\pdfoutline{\pdfextension outline }
                     \fi
              651
                   \fi
              652
              653 \ensuremath{\setminus} \texttt{else}
              654
                  \ifxetex
                     \def\BKM@driver{dvipdfm}%
              655
              656
                   \else
              657
                     \ifvtex
              658
                       \def\BKM@driver{vtex}%
              659
                     \else
              660
                        \edef\BKM@driver{\BookmarkDriverDefault}%
                     \fi
              661
                  \fi
              662
              663\fi
             Process options.
              664 \ProcessKeyvalOptions*
              665 \BKM@DisableOptions
             Option draft
              666 \ifBKM@draft
                   \PackageWarningNoLine{bookmark}{Draft mode on}%
              667
                   \let\bookmarksetup\@gobble
              668
                   \let\BookmarkAtEnd\@gobble
              669
                  \let\bookmarkdefinestyle\@gobbletwo
                   \let\bookmarkget\@gobble
              671
              672
                   \let\pdfbookmark\@undefined
              673
                   \newcommand*{\pdfbookmark}[3][]{}%
              674
                   \let\currentpdfbookmark\@gobbletwo
                   \let\subpdfbookmark\@gobbletwo
              675
                   \let\belowpdfbookmark\@gobbletwo
              676
                   \newcommand*{\bookmark}[2][]{}%
              677
                   \renewcommand*{\Hy@writebookmark}[5]{}%
              678
                   \let\ReadBookmarks\relax
              679
                   \let\BKM@DefGotoNameAction\@gobbletwo % package 'hypdestopt'
              680
                   \expandafter\endinput
              682 \fi
             Driver validation and loading.
              683 \def\BKM@temp{dvipdfmx}%
              684 \ifx\BKM@temp\BKM@driver
             685 \def\BKM@driver{dvipdfm}%
              686 \fi
              687 \def\BKM@temp{pdftex}%
              688 \ifpdf
              689
                   \ifx\BKM@temp\BKM@driver
              690
              691
                     \PackageWarningNoLine{bookmark}{%
              692
                        Wrong driver '\BKM@driver', using 'pdftex' instead%
              693
              694
                     \let\BKM@driver\BKM@temp
              695
                   \fi
              696 \ensuremath{\setminus} else
                   \ifx\BKM@temp\BKM@driver
              697
                     \PackageError{bookmark}{%
              698
                        Wrong driver, pdfTeX is not running in PDF mode.\MessageBreak
              699
```

```
701
                              \expandafter\expandafter\expandafter\endinput
                      702
                      703
                      704
                            \def\BKM@temp{dvipdfm}%
                      705
                           \ifxetex
                      706
                              \ifx\BKM@temp\BKM@driver
                      707
                              \else
                                \PackageWarningNoLine{bookmark}{%
                      708
                                  Wrong driver '\BKM@driver',\MessageBreak
                      709
                                  using 'dvipdfm' for XeTeX instead%
                      710
                                }%
                      711
                                \let\BKM@driver\BKM@temp
                      712
                             \fi
                      713
                      714
                           \else
                              \def\BKM@temp{vtex}%
                      715
                      716
                              \ifvtex
                                \ifx\BKM@temp\BKM@driver
                      717
                      718
                                \else
                      719
                                  \PackageWarningNoLine{bookmark}{%
                                    Wrong driver '\BKM@driver',\MessageBreak
                      720
                                    using 'vtex' for VTeX instead%
                      721
                      722
                                  }%
                                  \let\BKM@driver\BKM@temp
                      723
                                \fi
                      724
                      725
                              \else
                      726
                                \ifx\BKM@temp\BKM@driver
                      727
                                  \PackageError{bookmark}{%
                      728
                                    Wrong driver, VTeX is not running in PDF mode.\MessageBreak
                                    Package loading is aborted%
                      729
                      730
                      731
                                  \expandafter\expandafter\expandafter\endinput
                      732
                                \fi
                              \fi
                      733
                           \fi
                      734
                      735 \fi
                      736 \InputIfFileExists{bkm-\BKM@driver.def}{}{%
                      737
                           \PackageError{bookmark}{%
                      738
                             Unsupported driver '\BKM@driver'.\MessageBreak
                      739
                             Package loading is aborted%
                      740
                           \ \ \@ehc
                      741
                           \endinput
                      742 }
                     3.1.9
                             Compatibility for hyperref
       \pdfbookmark
                      743 \ \text{let}\ \text{gundefined}
                      744 \newcommand*{\pdfbookmark}[3][0]{%
                           \bookmark[level=#1,dest={#3.#1}]{#2}%
                      746
                           \hyper@anchorstart{#3.#1}\hyper@anchorend
                      747 }
\currentpdfbookmark
                      748 \def\currentpdfbookmark{%}
                           \pdfbookmark[\BKM@currentlevel]%
                      749
                      750 }
    \subpdfbookmark
                      751 \def\subpdfbookmark{%
                           \BKM@CalcExpr\BKM@CalcResult\BKM@currentlevel+1%
                           \verb|\expandafter| pdfbookmark| expandafter[\BKM@CalcResult]||%
                      753
                      754 }
```

Package loading is aborted%

```
\belowpdfbookmark
                   755 \def\belowpdfbookmark#1#2{%
                         \xdef\BKM@gtemp{\number\BKM@currentlevel}%
                         \subpdfbookmark{#1}{#2}%
                   757
                         \global\let\BKM@currentlevel\BKM@gtemp
                   759 }
                      Section number, text, label, level, file
\Hy@writebookmark
                   760 \def\Hy@writebookmark#1#2#3#4#5{%
                         762
                         \else
                   763
                           \edef\BKM@type{#5}%
                   764
                           \ifx\BKM@type\Hy@bookmarkstype
                             \begingroup
                   765
                               \ifBKM@numbered
                   766
                                 \let\numberline\Hy@numberline
                   767
                                 \let\booknumberline\Hy@numberline
                   768
                   769
                                 \let\partnumberline\Hy@numberline
                                 \let\chapternumberline\Hy@numberline
                   770
                   771
                               \else
                   772
                                 \let\numberline\@gobble
                   773
                                 \let\booknumberline\@gobble
                   774
                                 \let\partnumberline\@gobble
                   775
                                 \let\chapternumberline\@gobble
                   776
                               \bookmark[level=#4,dest={\HyperDestNameFilter{#3}}]{#2}%
                   777
                   778
                             \endgroup
                   779
                           \fi
                   780
                         \fi
                   781 }
   \ReadBookmarks
                   782 \let\ReadBookmarks\relax
                   783 \langle /package \rangle
                   3.2
                         Driver for dvipdfm
                   784 (*dvipdfm)
                   785 \NeedsTeXFormat{LaTeX2e}
                   786 \ProvidesFile{bkm-dvipdfm.def}%
                         [2023-12-10 v1.31 bookmark driver for dvipdfm (HO)]%
          \BKM@id
                   788 \newcount\BKM@id
                   789 \BKM@id=\z@
           \BKM@O
                   790 \@namedef{BKM@0}{000}
        \ifBKM@sw
                   791 \newif\ifBKM@sw
 \BKM@struct@dest Support for structure destinations in the outline.
                   792 \newcommand\BKM@struct@dest{}
                   793 \ExplSyntaxOn
                   794 \IfDocumentMetadataTF
                   795
                           \tag_if_active:T
                   796
                            {
                   797
```

```
\def\BKM@struct@dest{/SD~@pdf.SDest.\BKM@dest}
           798
           799
           800
           801
                }{}
           802 \ExplSyntaxOff
\bookmark
           803 \newcommand*{\bookmark}[2][]{%
                \if@filesw
           804
                   \begingroup
           805
                     \def\bookmark@text{#2}%
           806
                     \BKM@setup{#1}%
           807
                     \edef\BKM@prev{\the\BKM@id}%
           808
                     \global\advance\BKM@id\@ne
           809
           810
                     \BKM@swtrue
           811
                     \@whilesw\ifBKM@sw\fi{%
           812
                       \def\BKM@abslevel{1}%
                       \ifnum\ifBKM@startatroot\z@\else\BKM@prev\fi=\z@
           813
                         \BKM@startatrootfalse
           814
                         \expandafter\xdef\csname BKM@\the\BKM@id\endcsname{%
           815
                           O{\BKM@level}\BKM@abslevel
           816
                         }%
           817
                         \BKM@swfalse
           818
                       \else
           819
                         \expandafter\expandafter\BKM@getx
           820
                             \csname BKM@\BKM@prev\endcsname
           822
                         \ifnum\BKM@level>\BKM@x@level\relax
                           \BKM@CalcExpr\BKM@abslevel\BKM@x@abslevel+1%
           823
           824
                           \expandafter\xdef\csname BKM@\the\BKM@id\endcsname{%
                             {\BKM@prev}{\BKM@level}\BKM@abslevel
           825
                           }%
           826
                           \BKM@swfalse
           827
           828
                         \else
           829
                           \let\BKM@prev\BKM@x@parent
                         \fi
           830
           831
                       \fi
                     }%
           832
                     \csname HyPsd@XeTeXBigCharstrue\endcsname
           833
           834
                     \pdfstringdef\BKM@title{\bookmark@text}%
                     \edef\BKM@FLAGS{\BKM@PrintStyle}%
           835
                     \let\BKM@action\@empty
           836
                     \ifx\BKM@gotor\@empty
           837
                       \ifx\BKM@dest\@empty
           838
           839
                         \ifx\BKM@named\@empty
           840
                           \ifx\BKM@rawaction\@empty
           841
                             \ifx\BKM@uri\@empty
                               \ifx\BKM@page\@empty
           843
                                  \PackageError{bookmark}{Missing action}\Cehc
           844
                                  \edef\BKM@action{/Dest[@page1/Fit]}%
                               \else
           845
                                  \ifx\BKM@view\@empty
           846
                                    \def\BKM@view{Fit}%
           847
                                 \fi
           848
                                 \edef\BKM@action{/Dest[@page\BKM@page/\BKM@view]}%
           849
                               \fi
           850
           851
           852
                               \BKM@EscapeString\BKM@uri
           853
                               \edef\BKM@action{%
           854
                                 /A<<%
                                    /S/URI%
           855
                                    /URI(\BKM@uri)%
           856
           857
                                 >>%
                               }%
           858
```

```
\fi
859
                \else
860
                  \edef\BKM@action{/A<<\BKM@rawaction>>}%
861
                \fi
862
863
              \else
864
                \BKM@EscapeName\BKM@named
865
                \edef\BKM@action{%
                  /A <</S/Named/N/\BKM@named>>%
866
                }%
867
              \fi
868
            \else
869
              \BKM@EscapeString\BKM@dest
870
              \edef\BKM@action{%
871
                /A<<%
872
                  /S/GoTo%
873
874
                  /D(\BKM@dest)%
                  \BKM@struct@dest
875
                >>%
876
              }%
877
878
            \fi
          \else
879
            \ifx\BKM@dest\@empty
880
              \ifx\BKM@page\@empty
881
                \def\BKM@page{0}%
882
883
                \BKM@CalcExpr\BKM@page\BKM@page-1%
885
              \fi
              \ifx\BKM@view\@empty
886
887
                \def\BKM@view{Fit}%
              \fi
888
              \edef\BKM@action{/D[\BKM@page/\BKM@view]}%
889
890
              \BKM@EscapeString\BKM@dest
891
              \edef\BKM@action{/D(\BKM@dest)}%
892
893
            \BKM@EscapeString\BKM@gotor
894
895
            \edef\BKM@action{%
              /A<<%
896
                /S/GoToR%
897
                /F(\BKM@gotor)%
898
                \BKM@action
899
              >>%
900
           }%
901
902
903
          \special{pdf:%
904
           out
905
906
                  \ifBKM@open
907
                    \ifnum\BKM@level<%
908
                         \expandafter\@firstofone\expandafter
                         {\number\BKM@openlevel} %
909
                    \else
910
                       -%
911
                    \fi
912
                   \else
913
914
                    -%
915
                  \fi
916
                  ] %
                \BKM@abslevel
917
            <<%
918
              /Title(\BKM@title)%
919
              \ifx\BKM@color\@empty
920
```

```
921
                                                                         \else
                                                                              /C[\BKM@color]%
                                922
                                923
                                 924
                                                                         \ifnum\BKM@FLAGS>\z@
                                 925
                                                                               /F \BKM@FLAGS
                                 926
                                                                         \fi
                                 927
                                                                         \BKM@action
                                                                  >>%
                                 928
                                                            }%
                                 929
                                                      \endgroup
                                 930
                                 931
                                                \fi
                                932 }
\BKM@getx
                                 933 \def\BKM@getx#1#2#3{%
                                              \def\BKM@x@parent{#1}%
                                                \def\BKM@x@level{#2}%
                                 935
                                                \def\BKM@x@abslevel{#3}%
                                 936
                                937 }
                                938 \langle / \mathsf{dvipdfm} \rangle
                                                 Driver for VT<sub>F</sub>X
                              3.3
                                939 \langle *vtex \rangle
                                940 \NeedsTeXFormat\{LaTeX2e\}
                                941 \ProvidesFile{bkm-vtex.def}%
                                              [2023-12-10 v1.31 bookmark driver for VTeX (HO)]%
                                943 \setminus ifvtexpdf
                                944 \else
                                             \PackageWarningNoLine{bookmark}{%
                                945
                                                      The VTeX driver only supports PDF mode%
                                946
                                947 }%
                                948 \fi
     \BKM@id
                                 949 \newcount\BKM@id
                                 950 \BKM@id=\z@
        \BKM@O
                                 951 \@namedef{BKM@0}{00}
\ifBKM@sw
                                 952 \newif\ifBKM@sw
\bookmark
                                 953 \newcommand*{\bookmark}[2][]{%
                                               \if@filesw
                                954
                                                       \begingroup
                                 955
                                                             \def\bookmark@text{#2}%
                                 956
                                 957
                                                             \BKM@setup{#1}%
                                                             \edef\BKM@prev{\the\BKM@id}%
                                 958
                                                             \global\advance\BKM@id\@ne
                                 959
                                                             \BKM@swtrue
                                 960
                                 961
                                                             \@whilesw\ifBKM@sw\fi{%
                                 962
                                                                   \ifnum\ifBKM@startatroot\z@\else\BKM@prev\fi=\z@
                                 963
                                                                         \BKM@startatrootfalse
                                                                         \def\BKM@parent{0}%
                                 964
                                                                         \verb|\expandafter\xdef\csname| BKM@\the\BKM@id\endcsname{%}| % $$ \column{2.5cm} \
                                 965
                                                                              O{\BKM@level}%
                                 966
                                                                        }%
                                 967
                                                                         \BKM@swfalse
                                 968
```

```
\else
 969
               \expandafter\expandafter\BKM@getx
 970
                   \csname BKM@\BKM@prev\endcsname
 971
               \ifnum\BKM@level>\BKM@x@level\relax
 972
 973
                 \let\BKM@parent\BKM@prev
                 \expandafter\xdef\csname BKM@\the\BKM@id\endcsname{%
 974
 975
                   {\BKM@prev}{\BKM@level}%
                 }%
 976
                 \BKM@swfalse
 977
               \else
 978
                 \let\BKM@prev\BKM@x@parent
 979
               \fi
 980
            \fi
 981
          }%
 982
          \pdfstringdef\BKM@title{\bookmark@text}%
 983
 984
          \BKM@vtex@title
          \edef\BKM@FLAGS{\BKM@PrintStyle}%
 985
          \let\BKM@action\@empty
 986
          \ifx\BKM@gotor\@empty
 987
 988
            \ifx\BKM@dest\@empty
               \ifx\BKM@named\@empty
 989
                 \ifx\BKM@rawaction\@empty
 990
                   \ifx\BKM@uri\@empty
 991
                     \ifx\BKM@page\@empty
 992
                       \PackageError{bookmark}{Missing action}\@ehc
 993
 994
                       \def\BKM@action{!1}%
 995
                     \else
                       \edef\BKM@action{!\BKM@page}%
 996
 997
                     \fi
                   \else
 998
                     \BKM@EscapeString\BKM@uri
999
1000
                     \edef\BKM@action{%
1001
                       <u=%
                          /S/URI%
1002
1003
                          /URI(\BKM@uri)%
1004
                       >%
1005
                     }%
                   \fi
1006
1007
                 \else
                   \edef\BKM@action{<u=\BKM@rawaction>}%
1008
                 \fi
1009
1010
               \else
                 \BKM@EscapeName\BKM@named
1011
1012
                 \edef\BKM@action{%
1013
                   <u=%
1014
                     /S/Named%
1015
                     /N/\BKM@named
1016
                   >%
1017
                 }%
               \fi
1018
            \else
1019
1020
               \BKM@EscapeString\BKM@dest
               \edef\BKM@action{\BKM@dest}%
1021
            \fi
1022
          \else
1023
1024
             \ifx\BKM@dest\@empty
1025
               \ifx\BKM@page\@empty
1026
                 \def\BKM@page{1}%
1027
               \fi
               \ifx\BKM@view\@empty
1028
                 \def\BKM@view{Fit}%
1029
1030
               \fi
```

```
\else
                                                                                                       1032
                                                                                                                                                                               \BKM@EscapeString\BKM@dest
                                                                                                       1033
                                                                                                       1034
                                                                                                                                                                               \edef\BKM@action{/D(\BKM@dest)}%
                                                                                                       1035
                                                                                                                                                                    \fi
                                                                                                       1036
                                                                                                                                                                    \BKM@EscapeString\BKM@gotor
                                                                                                                                                                    \verb|\edef\BKM@action{||}|
                                                                                                       1037
                                                                                                                                                                             <u=%
                                                                                                       1038
                                                                                                                                                                                         /S/GoToR%
                                                                                                       1039
                                                                                                                                                                                         /F(\BKM@gotor)%
                                                                                                       1040
                                                                                                                                                                                         \BKM@action
                                                                                                       1041
                                                                                                       1042
                                                                                                                                                                             >>%
                                                                                                                                                                   }%
                                                                                                       1043
                                                                                                       1044
                                                                                                                                                          \fi
                                                                                                       1045
                                                                                                                                                          \ifx\BKM@color\@empty
                                                                                                       1046
                                                                                                                                                                    \let\BKM@RGBcolor\@empty
                                                                                                       1047
                                                                                                                                                          \else
                                                                                                                                                                     \expandafter\BKM@toRGB\BKM@color\@nil
                                                                                                       1048
                                                                                                                                                          \fi
                                                                                                       1049
                                                                                                       1050
                                                                                                                                                          \special{%
                                                                                                                                                                     !outline \BKM@action;%
                                                                                                       1051
                                                                                                                                                                    p=\BKM@parent,%
                                                                                                       1052
                                                                                                                                                                    i=\number\BKM@id,%
                                                                                                       1053
                                                                                                                                                                    s=%
                                                                                                       1054
                                                                                                       1055
                                                                                                                                                                               \ifBKM@open
                                                                                                                                                                                         \ifnum\BKM@level<\BKM@openlevel
                                                                                                       1056
                                                                                                       1057
                                                                                                                                                                                                  ٥%
                                                                                                                                                                                         \else
                                                                                                       1058
                                                                                                                                                                                                  с%
                                                                                                       1059
                                                                                                                                                                                         \fi
                                                                                                       1060
                                                                                                                                                                               \else
                                                                                                       1061
                                                                                                       1062
                                                                                                                                                                                         с%
                                                                                                       1063
                                                                                                                                                                               \fi,%
                                                                                                                                                                    \ifx\BKM@RGBcolor\@empty
                                                                                                       1064
                                                                                                       1065
                                                                                                       1066
                                                                                                                                                                               c=\BKM@RGBcolor,%
                                                                                                       1067
                                                                                                                                                                    \fi
                                                                                                                                                                    \int BKM@FLAGS>\z@
                                                                                                       1068
                                                                                                       1069
                                                                                                                                                                             f=\BKM@FLAGS,%
                                                                                                                                                                    \fi
                                                                                                       1070
                                                                                                                                                                   t=\BKM@title
                                                                                                       1071
                                                                                                                                                         }%
                                                                                                       1072
                                                                                                       1073
                                                                                                                                                \endgroup
                                                                                                       1074
                                                                                                                                     \fi
                                                                                                       1075 }
                                                    \BKM@getx
                                                                                                       1076 \ensuremath{\mbox{\sc 1076}}\ensuremath{\mbox{\sc 1
                                                                                                       1077 \def\BKM@x@parent{#1}%
                                                                                                                                     1078
                                                                                                       1079 }
                                               \BKM@toRGB
                                                                                                       1080 \ensuremath{\mbox{\mbox{$1$}}} 1080 \ensuremath{\mbox{\mbox{$4$}}} 1080 \ensuremath{\mbox{$4$}} 
                                                                                                                                   \let\BKM@RGBcolor\@empty
                                                                                                       1081
                                                                                                       1082
                                                                                                                                     \BKM@toRGBComponent{#1}%
                                                                                                       1083
                                                                                                                                     \BKM@toRGBComponent{#2}%
                                                                                                                                     \BKM@toRGBComponent{#3}%
                                                                                                       1084
                                                                                                       1085 }
\BKM@toRGBComponent
                                                                                                       1086 \def\BKM@toRGBComponent#1{%
```

\edef\BKM@action{/D[\BKM@page/\BKM@view]}%

```
\dimen@=#1pt\relax
                     1087
                           \ifdim\dimen@>\z@
                     1088
                              \ifdim\dimen@<\p@
                     1089
                                \dimen@=255\dimen@
                     1090
                     1091
                                \advance\dimen@ by 32768sp\relax
                     1092
                                \divide\dimen@ by 65536\relax
                     1093
                                \dimen@ii=\dimen@
                                \divide\dimen@ii by 16\relax
                     1094
                                \edef\BKM@RGBcolor{%
                     1095
                                  \BKM@RGBcolor
                     1096
                                  \BKM@toHexDigit\dimen@ii
                     1097
                                }%
                     1098
                                \dimen@ii=16\dimen@ii
                     1099
                                \advance\dimen@-\dimen@ii
                     1100
                     1101
                                \edef\BKM@RGBcolor{%
                     1102
                                  \BKM@RGBcolor
                     1103
                                  \BKM@toHexDigit\dimen@
                               }%
                     1104
                              \else
                     1105
                     1106
                                \edef\BKM@RGBcolor{\BKM@RGBcolor FF}%
                              \fi
                     1107
                           \else
                     1108
                              \edef\BKM@RGBcolor{\BKM@RGBcolor00}%
                     1109
                     1110
                     1111 }
    \BKM@toHexDigit
                     1112 \def\BKM@toHexDigit#1{%
                           \ifcase\expandafter\@firstofone\expandafter{\number#1} %
                     1113
                     1114
                             0\or 1\or 2\or 3\or 4\or 5\or 6\or 7\or
                             8\or 9\or A\or B\or C\or D\or E\or F%
                     1115
                     1116
                           \fi
                     1117 }
                     1118 \begingroup
                           \catcode'\|=0 %
                           \catcode'\\=12 %
                     1120
    \BKM@vtex@title
                           |gdef|BKM@vtex@title{%
                     1121
                     1122
                              |@onelevel@sanitize|BKM@title
                              |edef|BKM@title{|expandafter|BKM@vtex@leftparen|BKM@title\(|@nil}%
                     1123
                     1124
                              |edef|BKM@title{|expandafter|BKM@vtex@rightparen|BKM@title\)|@nil}%
                     1125
                              |edef|BKM@title{|expandafter|BKM@vtex@zero|BKM@title\0|@nil}%
                     1126
                              |edef|BKM@title{|expandafter|BKM@vtex@one|BKM@title\1|@nil}%
                              |edef|BKM@title{|expandafter|BKM@vtex@two|BKM@title\2|@nil}%
                     1127
                              | \verb|edef|| BKM@title{||expandafter||BKM@vtex@three||BKM@title\\3||@nil}\% | \\
                     1128
                     1129
                           }%
\BKM@vtex@leftparen
                     1130
                           |gdef|BKM@vtex@leftparen#1\(#2|@nil{%
                     1131
                             #1%
                              |ifx||#2||%
                     1132
                             |else
                     1133
                     1134
                                |BKM@ReturnAfterFi{%
                     1135
                     1136
                                  |BKM@vtex@leftparen#2|@nil
                     1137
                               }%
                     1138
                              lfi
                           }%
                     1139
```

\BKM@vtex@rightparen

```
|gdef|BKM@vtex@rightparen#1\)#2|@nil{%
                 1140
                 1141
                 1142
                          |ifx||#2||%
                 1143
                          |else
                 1144
                            )%
                 1145
                            |BKM@ReturnAfterFi{%
                 1146
                              |BKM@vtex@rightparen#2|@nil
                            }%
                 1147
                          |fi
                 1148
                       }%
                 1149
 \BKM@vtex@zero
                        |gdef|BKM@vtex@zero#1\0#2|@nil{%
                 1150
                 1151
                          #1%
                          |ifx||#2||%
                 1152
                          |else
                 1153
                            |noexpand|hv@pdf@char0%
                 1154
                            |BKM@ReturnAfterFi{%
                 1155
                              |BKM@vtex@zero#2|@nil
                 1156
                            }%
                 1157
                 1158
                          |fi
                 1159
                        }%
  \BKM@vtex@one
                        |gdef|BKM@vtex@one#1\1#2|@ni1{%
                 1160
                 1161
                          #1%
                 1162
                          |ifx||#2||%
                 1163
                          |else
                 1164
                            |noexpand|hv@pdf@char1%
                 1165
                            |BKM@ReturnAfterFi{%
                 1166
                              |BKM@vtex@one#2|@nil
                 1167
                            }%
                          |fi
                 1168
                       }%
                 1169
  \BKM@vtex@two
                 1170
                        |gdef|BKM@vtex@two#1\2#2|@nil{%
                 1171
                          #1%
                 1172
                          |ifx||#2||%
                          |else
                 1173
                            |noexpand|hv@pdf@char2%
                 1174
                            |BKM@ReturnAfterFi{%
                 1175
                              |BKM@vtex@two#2|@nil
                 1176
                 1177
                            }%
                 1178
                          lfi
                 1179
                        }%
\BKM@vtex@three
                        |gdef|BKM@vtex@three#1\3#2|@ni1{%
                 1180
                          #1%
                 1181
                          |ifx||#2||%
                 1182
                          lelse
                 1183
                            |noexpand|hv@pdf@char3%
                 1184
                            |BKM@ReturnAfterFi{%
                 1185
                               |BKM@vtex@three#2|@nil
                 1186
                            }%
                 1187
                 1188
                          |fi
                       }%
                 1189
                 1190 | endgroup
                 1191 (/vtex)
```

3.4 Driver for pdfTEX

```
1192 (*pdftex)
              1193 \NeedsTeXFormat{LaTeX2e}
              1194 \ProvidesFile{bkm-pdftex.def}%
                     [2023-12-10 v1.31 bookmark driver for pdfTeX and luaTeX (HO)]%
\BKM@DO@entry
              1196 \def\BKM@DO@entry#1#2{%
              1197
                    \begingroup
                       \kvsetkeys{BKM@DO}{#1}%
              1198
              1199
                       \def\BKM@DO@title{#2}%
              1200
                       \ifx\BKM@DO@srcfile\@empty
              1201
                      \else
                        \BKM@UnescapeHex\BKM@DO@srcfile
              1202
                       \fi
              1203
                       \BKM@UnescapeHex\BKM@DO@title
              1204
                       \expandafter\expandafter\expandafter\BKM@getx
              1205
              1206
                           \csname BKM@\BKM@DO@id\endcsname\@empty\@empty
              1207
                       \let\BKM@attr\@empty
              1208
                       \ifx\BKM@DO@flags\@empty
              1209
                       \else
                         \edef\BKM@attr{\BKM@attr/F \BKM@DO@flags}%
              1210
              1211
                       \fi
                       \ifx\BKM@DO@color\@empty
              1212
              1213
                       \else
                         \edef\BKM@attr{\BKM@attr/C[\BKM@DO@color]}%
              1214
                       \fi
              1215
              1216
                       \ifx\BKM@attr\@empty
              1217
                       \else
                         \edef\BKM@attr{attr{\BKM@attr}}%
              1218
              1219
              1220
                       \let\BKM@action\@empty
              1221
                       \ifx\BKM@DO@gotor\@empty
              1222
                         \ifx\BKM@DO@dest\@empty
                           \ifx\BKM@DO@named\@empty
              1223
                             \ifx\BKM@DO@rawaction\@empty
              1224
                               \ifx\BKM@DO@uri\@empty
              1225
                                 \ifx\BKM@DO@page\@empty
              1226
              1227
                                   \PackageError{bookmark}{%
                                      Missing action\BKM@SourceLocation
              1228
              1229
                                   }\@ehc
                                   \edef\BKM@action{goto page1{/Fit}}%
              1230
              1231
                                 \else
                                   \ifx\BKM@DO@view\@empty
              1232
                                      \def\BKM@DO@view{Fit}%
              1233
                                   \fi
              1234
                                   \edef\BKM@action{goto page\BKM@DO@page{/\BKM@DO@view}}%
              1235
                                 \fi
              1236
              1237
                               \else
              1238
                                 \BKM@UnescapeHex\BKM@DO@uri
                                 \BKM@EscapeString\BKM@DO@uri
              1239
              1240
                                 \edef\BKM@action{user{<</S/URI/URI(\BKM@DO@uri)>>}}%
              1241
                               \fi
              1242
                             \else
                               \BKM@UnescapeHex\BKM@DO@rawaction
              1243
                               \edef\BKM@action{%
              1244
                                 user{%
              1245
                                   <<%
              1246
              1247
                                      \BKM@DO@rawaction
              1248
                                   >>%
                                 }%
              1249
                               }%
              1250
```

```
\else
                         1252
                                        \BKM@EscapeName\BKM@DO@named
                         1253
                                        \edef\BKM@action{%
                         1254
                         1255
                                          user{<</S/Named/N/\BKM@DO@named>>}%
                         1256
                                       }%
                         1257
                                     \fi
                        1258
                                   \else
                                     \BKM@UnescapeHex\BKM@DO@dest
                        1259
                                     \BKM@DefGotoNameAction\BKM@action\BKM@DO@dest
                        1260
                                   \fi
                        1261
                                 \else
                        1262
                                   \ifx\BKM@DO@dest\@empty
                        1263
                                     \ifx\BKM@DO@page\@empty
                        1264
                                        \def\BKM@DO@page{0}%
                        1265
                         1266
                                      \else
                                        \BKM@CalcExpr\BKM@DO@page\BKM@DO@page-1%
                         1267
                                      \fi
                        1268
                                      \ifx\BKM@DO@view\@empty
                        1269
                                        \def\BKM@DO@view{Fit}%
                        1270
                                      \fi
                        1271
                                      \edef\BKM@action{/D[\BKM@DO@page/\BKM@DO@view]}%
                        1272
                        1273
                                   \else
                                      \BKM@UnescapeHex\BKM@DO@dest
                        1274
                                      \BKM@EscapeString\BKM@DO@dest
                        1275
                         1276
                                      \edef\BKM@action{/D(\BKM@DO@dest)}%
                        1277
                                   \fi
                                   \BKM@UnescapeHex\BKM@DO@gotor
                         1278
                        1279
                                   \BKM@EscapeString\BKM@DO@gotor
                                   \edef\BKM@action{%
                        1280
                                     user{%
                        1281
                        1282
                                        <<%
                        1283
                                          /S/GoToR%
                                          /F(\BKM@DO@gotor)%
                        1284
                                          \BKM@action
                        1285
                         1286
                                        >>%
                         1287
                                     }%
                                   }%
                         1288
                         1289
                                 \fi
                                 \pdfoutline\BKM@attr\BKM@action
                        1290
                                              count\ifBKM@DO@open\else-\fi\BKM@x@childs
                        1291
                                              {\BKM@DO@title}%
                        1292
                        1293
                               \endgroup
                         1294 }
\BKM@DefGotoNameAction Macro \BKM@DefGotoNameAction is a hook for package hypdestopt.
                               \def\BKM@DefGotoNameAction#1#2{%
                         1295
                                 \BKM@EscapeString\BKM@DO@dest
                        1296
                        1297
                                 \edef#1{goto name{#2}}%
                        1298
                        If tagging is active we use also structure destinations. If hypdestopt is actually
                        used this will be overwritten again.
                         1299 \ExplSyntaxOn
                         1300 \IfDocumentMetadataTF
                        1301 {
                        1302
                                \tag_if_active:T
                        1303
                                    \def\BKM@DefGotoNameAction#1#2
                        1304
                        1305
                                       \BKM@EscapeString\BKM@DO@dest
                         1306
                                       \edef#1{goto~struct~name~{#2}~name~{#2}}%
                         1307
                         1308
```

\fi

```
1309
                     1310 }{}
                     1311 \ExplSyntaxOff
                     1312 (/pdftex)
                     1313 \langle *pdftex | pdfmark \rangle
\BKM@SourceLocation
                     1314 \def\BKM@SourceLocation{%
                     1315 \ifx\BKM@DO@srcfile\@empty
                             \ifx\BKM@DO@srcline\@empty
                     1316
                             \else
                     1317
                               .\MessageBreak
                     1318
                                Source: line \BKM@DO@srcline
                     1319
                     1320
                             \fi
                     1321
                           \else
                     1322
                             \ifx\BKM@DO@srcline\@empty
                     1323
                                .\MessageBreak
                                Source: file '\BKM@DO@srcfile'%
                     1324
                     1325
                             \else
                                .\MessageBreak
                     1326
                                Source: file '\BKM@DO@srcfile', line \BKM@DO@srcline
                     1327
                             \fi
                     1328
                           \fi
                     1329
                     1330 }
                     1331 (/pdftex | pdfmark)
                            Drivers with pdfmark specials
                     3.5
                     3.5.1
                            Driver dvips
                     The dvips driver uses PSfile to include the bookmark to resolve a clash with pgf,
                     see https://github.com/pgf-tikz/pgf/issues/944#issuecomment-723099952
                     1332 (*dvips)
                     1333 \NeedsTeXFormat{LaTeX2e}
                     1334 \ProvidesFile{bkm-dvips.def}%
                           [2023-12-10 v1.31 bookmark driver for dvips (HO)]%
  \BKM@PSHeaderFile
                     1336 \def\BKM@PSHeaderFile#1{%
                     1337
                           \special{PSfile=#1}%
                     1338 }
      \BKM@filename
                     1339 \def\BKM@filename{\jobname.out.ps}
                     1340 \AddToHook{shipout/lastpage}{%
                     1341
                           \BKM@pdfmark@out
                     1342
                           \BKM@PSHeaderFile\BKM@filename
                     1343
                     1344 (/dvips)
                     3.5.2 Common part
                     1345 \langle *pdfmark \rangle
   \BKM@pdfmark@out Do not use package rerunfilecheck here, because the file \BKM@filename is not read
                     during the T<sub>E</sub>X run.
                     1346 \def\BKM@pdfmark@out{%
                           \if@filesw
                     1347
```

\newwrite\BKM@file

```
\immediate\openout\BKM@file=\BKM@filename\relax
               1349
                        \BKM@write{\@percentchar!}%
               1350
                        \BKM@write{/pdfmark where{pop}}%
               1351
                        \BKM@write{%
               1352
               1353
               1354
                            /globaldict where{pop globaldict}{userdict}ifelse%
               1355
                            /pdfmark/cleartomark load put%
                          }%
               1356
                        }%
               1357
                        \BKM@write{ifelse}%
               1358
               1359
                      \else
                        \let\BKM@write\@gobble
               1360
                        \let\BKM@DO@entry\@gobbletwo
               1361
               1362
               1363 }
   \BKM@write
               1364 \ensuremath{\mbox{M@write#{\mathcal{M}}}}
                     \immediate\write\BKM@file
               1365
               1366 }
\BKM@DD@entry The specification for pdfmark says that /Color is the name of the key for color,
               however ghostscript only passes the key into the PDF file, thus the key name must
               1367 \def\BKM@DO@entry#1#2{%
               1368
                     \begingroup
               1369
                        \kvsetkeys{BKM@DO}{#1}%
               1370
                        \ifx\BKM@DO@srcfile\@empty
               1371
                        \else
                          \BKM@UnescapeHex\BKM@DO@srcfile
               1372
                        \fi
               1373
                        \def\BKM@DO@title{#2}%
               1374
                        \BKM@UnescapeHex\BKM@DO@title
               1375
                        \expandafter\expandafter\expandafter\BKM@getx
               1376
                            \csname BKM@\BKM@DO@id\endcsname\@empty\@empty
               1377
                        \let\BKM@attr\@empty
               1378
                        \ifx\BKM@DO@flags\@empty
               1379
               1380
                        \else
                          \edef\BKM@attr{\BKM@attr/F \BKM@DO@flags}%
               1381
               1382
                        \fi
               1383
                        \ifx\BKM@DO@color\@empty
               1384
                        \else
                          \edef\BKM@attr{\BKM@attr/C[\BKM@DO@color]}%
               1385
                        \fi
               1386
                        \let\BKM@action\@empty
               1387
                        \ifx\BKM@DO@gotor\@empty
               1388
                          \ifx\BKM@DO@dest\@empty
               1389
                            \ifx\BKM@DO@named\@empty
               1390
               1391
                              \ifx\BKM@DO@rawaction\@empty
               1392
                                 \int Tx\BKM@DO@uri\@empty
                                   \ifx\BKM@DO@page\@empty
               1393
                                     \PackageError{bookmark}{%
               1394
                                       Missing action\BKM@SourceLocation
               1395
                                     }\@ehc
               1396
                                     \edef\BKM@action{%
               1397
                                       /Action/GoTo%
               1398
                                       /Page 1%
               1399
                                       /View[/Fit]%
               1400
                                     }%
               1401
               1402
                                   \else
                                     \ifx\BKM@DO@view\@empty
               1403
```

\def\BKM@DO@view{Fit}%

```
1405
                      \fi
                      \edef\BKM@action{%
1406
                        /Action/GoTo%
1407
                        /Page \BKM@DO@page
1408
1409
                        /View[/\BKM@DO@view]%
1410
                      }%
                    \fi
1411
1412
                 \else
                    \BKM@UnescapeHex\BKM@DO@uri
1413
                    \BKM@EscapeString\BKM@DO@uri
1414
                    \edef\BKM@action{%
1415
                      /Action<<%
1416
                        /Subtype/URI%
1417
1418
                        /URI(\BKM@DO@uri)%
1419
                      >>%
                    }%
1420
                 \fi
1421
               \else
1422
                  \BKM@UnescapeHex\BKM@DO@rawaction
1423
1424
                  \edef\BKM@action{%
                    /Action<<%
1425
                      \BKM@DO@rawaction
1426
                    >>%
1427
                 }%
1428
1429
               \fi
1430
             \else
               \BKM@EscapeName\BKM@DO@named
1431
               \edef\BKM@action{%
1432
1433
                  /Action<<%
                    /Subtype/Named%
1434
                    /N/\BKM@DO@named
1435
1436
                 >>%
               }%
1437
             \fi
1438
1439
           \else
1440
             \BKM@UnescapeHex\BKM@DO@dest
1441
             \BKM@EscapeString\BKM@DO@dest
             \verb|\edgf\BKM@action{||}|
1442
1443
               /Action/GoTo%
               /Dest(\BKM@DO@dest)cvn%
1444
             }%
1445
           \fi
1446
         \else
1447
           \ifx\BKM@DO@dest\@empty
1448
             \ifx\BKM@DO@page\@empty
1449
1450
               \def\BKM@DO@page{1}%
1451
             \fi
1452
             \ifx\BKM@DO@view\@empty
1453
               \def\BKM@DO@view{Fit}%
             \fi
1454
             \verb|\edef\BKM@action{||}|
1455
               /Page \BKM@DO@page
1456
               /{\tt View[/\backslash BKM@DO@view]\%}
1457
             }%
1458
1459
           \else
1460
             \BKM@UnescapeHex\BKM@DO@dest
1461
             \BKM@EscapeString\BKM@DO@dest
1462
             \edef\BKM@action{%
1463
               /Dest(\BKM@DO@dest)cvn%
             }%
1464
           \fi
1465
1466
           \BKM@UnescapeHex\BKM@DO@gotor
```

```
\BKM@EscapeString\BKM@DO@gotor
         1467
                    \edef\BKM@action{%
         1468
                     /Action/GoToR%
         1469
                     /File(\BKM@DO@gotor)%
          1470
          1471
                      \BKM@action
         1472
                   }%
         1473
                  \fi
         1474
                  \BKM@write{[}%
                  \BKM@write{/Title(\BKM@DO@title)}%
         1475
                  \ifnum\BKM@x@childs>\z@
         1476
                    \BKM@write{/Count \ifBKM@DO@open\else-\fi\BKM@x@childs}%
         1477
                  \fi
         1478
                  \ifx\BKM@attr\@empty
         1479
                  \else
         1480
                    \BKM@write{\BKM@attr}%
         1481
          1482
                 \BKM@write{\BKM@action}%
         1483
                  \BKM@write{/OUT pdfmark}%
         1484
               \endgroup
         1485
         1486 }
         1487 (/pdfmark)
                Common part for pdftex and pdfmark
          1488 (*pdftex | pdfmark)
         3.6.1
                Write auxiliary file
          1489 \AddToHook{begindocument}{%
          \BKM@id
          1491 \newcount\BKM@id
         1492 \BKM@id=\z@
  \BKM@O
         1493 \mbox{@namedef{BKM@0}{000}}
\ifBKM@sw
         1494 \newif\ifBKM@sw
\bookmark
          1495 \newcommand*{\bookmark}[2][]{%
         1496
               \if@filesw
         1497
                 \begingroup
                    \BKM@InitSourceLocation
         1498
                    \def\bookmark@text{#2}%
         1499
                   \BKM@setup{#1}%
         1500
         1501
                   \ifx\BKM@srcfile\@empty
         1502
                    \else
         1503
                     \BKM@EscapeHex\BKM@srcfile
         1504
                    \edef\BKM@prev{\the\BKM@id}%
         1505
                    \global\advance\BKM@id\@ne
         1506
         1507
                    \BKM@swtrue
                    \@whilesw\ifBKM@sw\fi{%
         1508
                     \ifnum\ifBKM@startatroot\z@\else\BKM@prev\fi=\z@
         1509
                        \BKM@startatrootfalse
         1510
                        \verb|\expandafter\xdef\csname| BKM@\the\BKM@id\endcsname{\%}|
         1511
         1512
                         O{\BKM@level}0%
         1513
                       }%
                        \BKM@swfalse
         1514
```

```
\else
                         \expandafter\expandafter\BKM@getx
          1516
                             \csname BKM@\BKM@prev\endcsname
          1517
                         \ifnum\BKM@level>\BKM@x@level\relax
          1518
                           \expandafter\xdef\csname BKM@\the\BKM@id\endcsname{%
          1519
          1520
                             {\BKM@prev}{\BKM@level}0%
          1521
                           }%
          1522
                           \ifnum\BKM@prev>\z@
                             \BKM@CalcExpr\BKM@CalcResult\BKM@x@childs+1%
          1523
                             \expandafter\xdef\csname BKM@\BKM@prev\endcsname{%
          1524
                               {\BKM@x@parent}{\BKM@x@level}{\BKM@CalcResult}%
          1525
                             }%
          1526
          1527
                           \fi
                           \BKM@swfalse
          1528
          1529
                         \else
                           \let\BKM@prev\BKM@x@parent
          1530
          1531
                         \fi
                       \fi
          1532
                     }%
          1533
          1534
                     \pdfstringdef\BKM@title{\bookmark@text}%
                     \edef\BKM@FLAGS{\BKM@PrintStyle}%
          1535
                     \csname BKM@HypDestOptHook\endcsname
          1536
                     \BKM@EscapeHex\BKM@dest
          1537
                     \BKM@EscapeHex\BKM@uri
          1538
                     \BKM@EscapeHex\BKM@gotor
          1539
          1540
                     \BKM@EscapeHex\BKM@rawaction
          1541
                     \BKM@EscapeHex\BKM@title
          1542
                     \immediate\write\@mainaux{%
          1543
                       \string\BKM@entry{%
                         id=\number\BKM@id
          1544
                         \ifBKM@open
          1545
                           \ifnum\BKM@level<\BKM@openlevel
          1546
          1547
                              ,open%
          1548
                           \fi
                         \fi
          1549
          1550
                         \BKM@auxentry{dest}%
          1551
                         \BKM@auxentry{named}%
          1552
                         \BKM@auxentry{uri}%
          1553
                         \BKM@auxentry{gotor}%
                         \BKM@auxentry{page}%
          1554
                         \BKM@auxentry{view}%
          1555
                         \BKM@auxentry{rawaction}%
          1556
                         \BKM@auxentry{color}%
          1557
          1558
                         \ifnum\BKM@FLAGS>\z@
          1559
                           ,flags=\BKM@FLAGS
          1560
          1561
                         \BKM@auxentry{srcline}%
          1562
                         \BKM@auxentry{srcfile}%
          1563
                       }{\BKM@title}%
                     }%
          1564
                   \endgroup
          1565
          1566
                 \fi
          1567 }
\BKM@getx
          1568 \def\BKM@getx#1#2#3{%}
                \def\BKM@x@parent{#1}%
          1569
                \def\BKM@x@level{#2}%
          1570
                 \def\BKM@x@childs{#3}%
          1571
          1572 }
```

\BKM@auxentry

1515

```
1573 \def\BKM@auxentry#1{%
                               \expandafter\ifx\csname BKM@#1\endcsname\@empty
                         1574
                         1575
                               \else
                                  ,#1={\csname BKM@#1\endcsname}%
                         1576
                         1577
                               \fi
                         1578 }
\BKM@InitSourceLocation
                         1579 \def\BKM@InitSourceLocation{%
                               \edef\BKM@srcline{\the\inputlineno}%
                         1581
                               \BKM@LuaTeX@InitFile
                         1582
                               \ifx\BKM@srcfile\@empty
                                 \@ifundefined{currfilepath}{}{%
                         1583
                                   \edef\BKM@srcfile{\currfilepath}%
                         1584
                                 }%
                         1585
                         1586 \fi
                         1587 }
   \BKM@LuaTeX@InitFile
                         1588 \ifluatex
                                 \def\BKM@LuaTeX@InitFile{%
                         1589
                         1590
                                    \begingroup
                                      \text{toks@={}}%
                         1591
                                    \edef\x{\endgroup
                         1592
                                      \def\noexpand\BKM@srcfile{%
                         1593
                         1594
                                        \the\expandafter\toks@
                         1595
                                        \directlua{%
                         1596
                                           if status and status.filename then %
                                             tex.settoks('toks@', status.filename)%
                         1597
                         1598
                                           end%
                                       }%
                         1599
                                     }%
                         1600
                         1601
                                   }\x
                         1602
                         1603 \else
                         1604 \let\BKM@LuaTeX@InitFile\relax
                         1605 \fi
                         3.6.2 Read auxiliary data
                         1606 \SetupKeyvalOptions{family=BKM@DO,prefix=BKM@DO@}
                         1607 \DeclareStringOption[0]{id}
                         1608 \DeclareBoolOption{open}
                         1609 \DeclareStringOption{flags}
                         1610 \DeclareStringOption{color}
                         1611 \DeclareStringOption{dest}
                         1612 \DeclareStringOption{named}
                         1613 \DeclareStringOption{uri}
                         1614 \DeclareStringOption{gotor}
                         1615 \DeclareStringOption{page}
                         1616 \DeclareStringOption{view}
                         1617 \DeclareStringOption{rawaction}
                         1618 \DeclareStringOption{srcline}
                         1619 \DeclareStringOption{srcfile}
                         1620 \AtBeginDocument{%
                         1621 \let\BKM@entry\BKM@DO@entry
                         1622 }
                         1623 (/pdftex | pdfmark)
                                Option atend
                         3.7
```

3.7.1 Hook

```
1624 (*package)
                1625 \ifBKM@atend
                1626 \else
\BookmarkAtEnd This is a dummy definition that generates a warning if option atend has not been
                given.
                1627
                      \newcommand{\BookmarkAtEnd}[1]{%
                        \PackageWarning{bookmark}{%
                1628
                          Ignored, because option 'atend' is missing%
                1629
                1630
                1631
                      \expandafter\endinput
                1633 \fi
\BookmarkAtEnd
                1634 \newcommand*{\BookmarkAtEnd}{%
                      \g@addto@macro\BKM@EndHook
                1636 }
                1637 \let\BKM@EndHook\@empty
                1638 (/package)
```

3.7.2 Drivers using hooks at end of document

Driver pdftex use the LaTeX hook enddocument/afterlastpage (which is equivalent to the previously used \AfterLastShipout of atveryend's), because it still needs the .aux file. It uses \pdfoutline for the bookmarks that can be used after the last page.

• Driver pdftex uses \pdfoutline that can be used after the last page.

```
1639 \phipfitex\)
1640 \ifBKM@atend
1641 \AddToHook{enddocument/afterlastpage}{%
1642 \BKM@EndHook
1643 }%
1644 \fi
1645 \/pdftex\)
```

3.7.3 Drivers using shipout/lastpage

The other drivers implement \bookmark using \special commands. Thus the last bookmarks must be put on the last page, not afterwards. \AtEndDocument cannot be used, because it is too late, the last page can already be output. Therefore we use the LaTeX hook shipout/lastpage. At least two LaTeX runs are necessary. The postscript driver dvips use an external PostScript file for the bookmarks. The file writing has been moved to the last shipout page too to avoid conflicts with pgf.

4 Installation

4.1 Download

Package. This package is available on CTAN¹:

¹CTAN:pkg/bookmark

```
CTAN:macros/latex/contrib/bookmark/bookmark.dtx The source file.
```

CTAN: macros/latex/contrib/bookmark/bookmark.ins Installation driver.

CTAN:macros/latex/contrib/bookmark/bookmark.pdf Documentation.

4.2 Package installation

The easiest is to use the package manager from your TeX system. If you want to install manually:

Unpacking. The .dtx file is docstrip archive. The files are extracted from the .dtx by compiling the file with some TeX program.

```
pdflatex bookmark.dtx
```

TDS. Now the different files must be moved into the different directories in your installation TDS tree (also known as texmf tree):

```
bookmark.sty
                            → tex/latex/bookmark/bookmark.sty
bkm-dvipdfm.def
                            \rightarrow tex/latex/bookmark/bkm-dvipdfm.def
bkm-dvips.def
                            \rightarrow tex/latex/bookmark/bkm-dvips.def
bkm-pdftex.def
                            → tex/latex/bookmark/bkm-pdftex.def
bkm-vtex.def
                            → tex/latex/bookmark/bkm-vtex.def
{\tt bkm-dvipdfm-2019-12-03.def} \rightarrow {\tt tex/latex/bookmark/bkm-dvipdfm-2019-12-03.def}
bkm-dvips-2019-12-03.def \rightarrow tex/latex/bookmark/bkm-dvips-2019-12-03.def
{\tt bkm-pdftex-2019-12-03.def} \ \to {\tt tex/latex/bookmark/bkm-pdftex-2019-12-03.def}
bkm-vtex-2019-12-03.def
                            → tex/latex/bookmark/bkm-vtex-2019-12-03.def
bookmark.pdf
                            → doc/latex/bookmark/bookmark.pdf
bookmark-example.tex
                            → doc/latex/bookmark/bookmark-example.tex
bookmark.dtx
                            → source/latex/bookmark/bookmark.dtx
```

If you have a docstrip.cfg that configures and enables docstrip's TDS installing feature, then some files can already be in the right place, see the documentation of docstrip.

4.3 Refresh file name databases

If your T_EX distribution (T_EX Live, MiKT_EX, ...) relies on file name databases, you must refresh these. For example, T_EX Live users run texhash or mktexlsr.

Generating the documentation. You can use the .dtx to generate the documentation. The process can be configured by the configuration file ltxdoc.cfg. For instance, put this line into this file, if you want to have A4 as paper format:

```
\PassOptionsToClass{a4paper}{article}
```

An example follows how to generate the documentation with pdfIATEX:

```
pdflatex bookmark.dtx
makeindex -s gind.ist bookmark.idx
pdflatex bookmark.dtx
makeindex -s gind.ist bookmark.idx
pdflatex bookmark.dtx
```

5 References

- Sebastian Rahtz, Heiko Oberdiek: The hyperref package; 2011/04/17 v6.82g;
 CTAN:pkg/hyperref
- [2] Martin Scharrer: The currfile package; 2011/01/09 v0.4. CTAN:pkg/currfile

6 History

[2007/02/19 v0.1]

• First experimental version.

[2007/02/20 v0.2]

- Option startatroot added.
- Dummies for \pdf(un)escape... commands added to get the package basically work for non-pdfTeX users.

[2007/02/21 v0.3]

• Dependency from pdfTFX 1.30 removed by using package pdfescape.

[2007/02/22 v0.4]

• hyperref's bookmarkstype respected.

[2007/03/02 v0.5]

- Driver options vtex (PDF mode), dvipsone, and textures added.
- Implementation of option depth completed. Division names are supported, see hyperref's option bookmarksdepth.
- hyperref's options bookmarksopen, bookmarksopenlevel, and bookmarksdepth respected.

[2007/03/03 v0.6]

• Option numbered as alias for hyperref's bookmarksnumbered.

[2007/03/07 v0.7]

• Dependency from ε -TEX removed.

[2007/04/09 v0.8]

- Option atend added.
- Option rgbcolor removed. rgbcolor=<r> <g> can be replaced by color=[rgb]{<r>,<g>,}.
- Support of recent cvs version (2007-03-29) of dvipdfmx that extends the \special for bookmarks to specify open outline entries. Option dvipdfmx-outline-open or \SpecialDvipdfmxOutlineOpen notify the package.

[2007/04/25 v0.9]

• The syntax of \special of dvipdfmx, if feature dvipdfmx-outline-open is enabled, has changed. Now cvs version 2007-04-25 is needed.

[2007/05/29 v1.0]

• Bug fix in code for second parameter of XYZ.

[2007/07/13 v1.1]

• Fix for pdfmark with GoToR action.

[2007/09/25 v1.2]

• pdfmark driver respects \nofiles.

[2008/08/08 v1.3]

- Package flags replaced by package bitset. Now flags are also supported without ε -TeX.
- Hook for package hypdestopt added.

[2008/09/13 v1.4]

• Fix for bug introduced in v1.3, package flags is one-based, but package bitset is zero-based. Thus options bold and italic are wrong in v1.3. (Daniel Müllner)

[2009/08/13 v1.5]

• Except for driver options the other options are now local options. This resolves a problem with KOMA-Script v3.00 and its option open.

[2009/12/06 v1.6]

• Use of package atveryend for drivers pdftex and pdfmark.

[2009/12/07 v1.7]

• Use of package atveryend fixed.

[2009/12/17 v1.8]

• Support of hyperref 2009/12/17 v6.79v for XTFX.

[2010/03/30 v1.9]

• Package name in an error message fixed.

[2010/04/03 v1.10]

- Option style and macro \bookmarkdefinestyle added.
- Hook support with option addtohook added.
- \bookmarkget added.

[2010/04/04 v1.11]

• Bug fix (introduced in v1.10).

[2010/04/08 v1.12]

• Requires ltxcmds 2010/04/08.

[2010/07/23 v1.13]

• Support for memoir's \booknumberline added.

[2010/09/02 v1.14]

• (Local) options draft and final added.

[2010/09/25 v1.15]

- Fix for option dvipdfmx-outline-open.
- Option dvipdfmx-outline-open is set automatically, if XeTeX ≥ 0.9995 is detected.

[2010/10/19 v1.16]

- Option 'startatroot' now acts globally.
- Option 'level' also accepts names the same way as option 'depth'.

[2010/10/25 v1.17]

- \bookmarksetupnext added.
- Using \kvsetkeys of package kvsetkeys, because \setkeys of package keyval is not reentrant. This can cause problems (unknown keys) with older versions of hyperref that also uses \setkeys (found by GL).

[2010/11/05 v1.18]

• Use of \pdf@ifdraftmode of package pdftexcmds for the default of option draft.

[2011/03/20 v1.19]

- Use of \dimexpr fixed, if ε -T_EX is not used. (Bug found by Martin Münch.)
- Fix in documentation. Also layout options work without ε -T_FX.

[2011/04/13 v1.20]

• Bug fix: \BKM@SetDepth renamed to \BKM@SetDepthOrLevel.

[2011/04/21 v1.21]

• Some support for file name and line number in error messages at end of document (pdfTeX and pdfmark based drivers).

[2011/05/13 v1.22]

• Change of version 2010/11/05 v1.18 reverted, because otherwise draftmode disables some .aux file entries.

[2011/09/19 v1.23]

• Some \renewcommands changed to \def to avoid trouble if the commands are not defined, because hyperref stopped early.

[2011/12/02 v1.24]

• Small optimization in \BKM@toHexDigit.

[2016/05/16 v1.25]

• Documentation updates.

[2016/05/17 v1.26]

• define \pdfoutline to allow pdftex driver to be used with LuaTeX.

[2019/06/04 v1.27]

• unknown style options are ignored (issue 67)

[2019/12/03 v1.28]

- Documentation updates.
- adjust package loading (all required packages already loaded by hyperref).

[2020-11-06 v1.29]

- Adapted the dvips to avoid a clash with pgf. https://github.com/pgf-tikz/pgf/issues/944
- All drivers now use the new LaTeX hooks and so require a format 2020-10-01 or newer.
- Added support for destlabel option of hyperref, https://github.com/ho-tex/bookmark/issues/1
- Removed the dvipsone and textures driver.
- Removed the code for option dvipdfmx-outline-open and \SpecialDvipdfmxOutlineOpen. All dvipdfmx version should now support this out-of-the-box.

[2023-12-05 v1.30]

- Corrected support for option bookmarkstype of hyperref, https://github.com/ho-tex/bookmark/issues/4
- Added support for structure destinations, https://github.com/ho-tex/bookmark/issues/7

[2023-12-10 v1.31]

- Simplified the .dtx. It is no longer a self-extracting archive instead the newly added .ins should be used for installation. https://github.com/ho-tex/bookmark/issues/7
- Removed the now outdated frozen drivers.
- Removed the dependency to ltxcmds.

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