

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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	[2009/12/06 v1.6]	54
	[2009/12/07 v1.7]	55
	[2009/12/17 v1.8]	55
	[2010/03/30 v1.9]	55
	[2010/04/03 v1.10]	55
	[2010/04/04 v1.11]	55
	[2010/04/08 v1.12]	55
	[2010/07/23 v1.13]	55
	[2010/09/02 v1.14]	55
	[2010/09/25 v1.15]	55
	[2010/10/19 v1.16]	55
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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

<hr/>	
<code>\bookmarksetup</code>	Options can be given at four places:
<code>\bookmarksetupnext</code>	
<code>\bookmark</code>	
	<ol style="list-style-type: none"> 1. <code>\usepackage[<i><options></i>]{bookmark}</code> This is the only place for driver options and option <code>atend</code>. 2. <code>\bookmarksetup{<i><options></i>}</code> This command is just for setting options. 3. <code>\bookmarksetupnext{<i><options></i>}</code> The options are stored and called after the options of the next <code>\bookmark</code> command. 4. <code>\bookmark[<i><options></i>]{<i><title></i>}</code> 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 \LaTeX 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

The driver options are now all ignored. If \TeX is detected its driver file will be loaded. If not the package calls the \LaTeX command `\sys_ensure_backend:` to triggers is back-end detection and then inspects `\c_sys_backend_str`. This means that for `pdf \TeX` , `Lua \LaTeX` , `X \TeX` and \LaTeX with `dvips` you don't need to do anything at all. For `DVIPDFMx` should set the backend globally with one of the following options:

```
\DocumentMetadata{backend=dvipdfmx} %if \DocumentMetadata is used
\RequirePackage[backend=dvipdfmx]{pdfmanagement}%if the PDF management is used
\documentclass[dvipdfmx]{article} % otherwise
```

The current versions of the drivers use \LaTeX -hooks and test if the PDF management is active and so require 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. The recognized values are

- 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}`
- Color expressions like `color=red!50!white`. This requires that either the PDF management or the `xcolor` is loaded.

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 -TeX'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	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 \LaTeX 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` `\bookmarkdefinestyle{<name>}{<key value list>}`

The `<key value list>` of option settings is assigned the style `<name>`.

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 `\bookmark`.

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

`\bookmarkget` `\bookmarkget{<option>}`

Macro `\bookmarkget` extracts the value of the latest option setting of option `<option>`. In case of boolean options number one is returned, if the boolean option is enabled, otherwise the result is zero. The resulting numbers can directly be used in `\ifnum` or `\ifcase`. If you want to have the digits 0 and 1, then prefix `\bookmarkget` with `\number`. Macro `\bookmarkget` is expandable. In case of unsupported options an empty string is returned. Supported boolean options are

`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`:

<code>hyperref</code>	<code>bookmark</code>
<code>bookmarksdepth</code>	<code>depth</code>
<code>bookmarksopen</code>	<code>open</code>
<code>bookmarksopenlevel</code>	<code>openlevel</code>
<code>bookmarksnumbered</code>	<code>numbered</code>

The following commands are also available:

<code>\pdfbookmark</code>	<code>\pdfbookmark[<i><level></i>]{<i><text></i>}{<i><name></i>}</code>
<code>\currentpdfbookmark</code>	<code>\currentpdfbookmark{<i><text></i>}{<i><name></i>}</code>
<code>\subpdfbookmark</code>	<code>\subpdfbookmark{<i><text></i>}{<i><name></i>}</code>
<code>\belowpdfbookmark</code>	<code>\belowpdfbookmark{<i><text></i>}{<i><name></i>}</code>

They are documented in the `hyperref` documentation.

1.4 Adding bookmarks at the end

Package option `atend` enables the following macro:

<code>\BookmarkAtEnd</code>	<code>\BookmarkAtEnd{<i><stuff></i>}</code>
-----------------------------	---

Macro `\BookmarkAtEnd` puts *<stuff>* at the end of the document. *<stuff>* 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` (used by `pdfLATEX` and `LuaLATEX`) uses the hook `enddocument/afterlastpage`

The implementation of the other drivers (`dvipdfm`, `xetex`, `vtex`, `dvips`) depends on `\special` that does not have an effect after the last page. In this case the hook `shipout/lastpage` is used. Two `LATEX` runs are necessary at least, because the last page is detected by a reference.

- 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

```
\DocumentMetadata{tagging=on}
```

the outlines will also use structure destinations, these are destination bound not to a page but to a structure. This works only with `pdfLATEX`, `LuaLATEX` and `XYLATEX`.

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[
6   open,
7   openlevel=2,
8   atend
9 ]{bookmark}[2019/12/03]
10
11 \bookmarksetup{color=blue}
12
13 \BookmarkAtEnd{%

```

```

14 \bookmarksetup{startatroot}%
15 \bookmark[named=LastPage, level=0]{End/Last page}%
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}{}%
24 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" "O" "U" "a" "o" "u" ss}
34 \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,
73   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,
92   named=LastPage
93 ]{Last page (rellevel=1, keeplevel)}
94 \bookmark[named=PrevPage]{Previous page}
95 \end{document}
96 </example>

```

3 Implementation

3.1 Package

```

97 <*package>
98 \NeedsTeXFormat{LaTeX2e}
99 \ProvidesPackage{bookmark}%
100 [2026-05-21 v1.32 PDF bookmarks (HO)]%

```

3.1.1 Requirements

ϵ -TEX.

`\BKM@CalcExpr`

```

101 \begingroup\expandafter\expandafter\expandafter\endgroup
102 \expandafter\ifx\csname numexpr\endcsname\relax
103   \def\BKM@CalcExpr#1#2#3#4{%
104     \begingroup
105       \count@=#2\relax
106       \advance\count@ by#3#4\relax
107       \edef\x{\endgroup
108         \def\noexpand#1{\the\count@}%

```

```

109     }%
110     \x
111 }%
112 \else
113   \def\BKM@CalcExpr#1#2#3#4{%
114     \edef#1{%
115       \the\numexpr#2#3#4\relax
116     }%
117   }%
118 \fi

```

(End of definition for \BKM@CalcExpr. This function is documented on page ??.)

Escape features of pdfTeX.

\BKM@EscapeName

```

119 \def\BKM@EscapeName#1{%
120   \ifx#1\@empty
121   \else
122     \EdefEscapeName#1#1%
123   \fi
124 }%

```

(End of definition for \BKM@EscapeName. This function is documented on page ??.)

\BKM@EscapeString

```

125 \def\BKM@EscapeString#1{%
126   \ifx#1\@empty
127   \else
128     \EdefEscapeString#1#1%
129   \fi
130 }%

```

(End of definition for \BKM@EscapeString. This function is documented on page ??.)

\BKM@EscapeHex

```

131 \def\BKM@EscapeHex#1{%
132   \ifx#1\@empty
133   \else
134     \EdefEscapeHex#1#1%
135   \fi
136 }%

```

(End of definition for \BKM@EscapeHex. This function is documented on page ??.)

\BKM@UnescapeHex

```

137 \def\BKM@UnescapeHex#1{%
138   \EdefUnescapeHex#1#1%
139 }%

```

(End of definition for \BKM@UnescapeHex. This function is documented on page ??.)

Some helper commands Replaces some commands from ltxcmds:

```

\BKM@ReturnAfterFi
\BKM@space
\BKM@GlobalAppendToMacro
\BKM@LocalAppendToMacro
140 \ExplSyntaxOn
141 \let\BKM@LocalAppendToMacro\tl_put_right:Nn
142 \let\BKM@GlobalAppendToMacro\tl_gput_right:Nn
143 \ExplSyntaxOff
144 \def\BKM@space{ }
145 \long\def\BKM@ReturnAfterFi#1\fi{\fi#1}

```

(End of definition for \BKM@ReturnAfterFi and others. These functions are documented on page ??.)

Packages. Don't load packages loaded by hyperref

```

146 \RequirePackage{hyperref}[2010/06/18]

```

3.1.2 Package options

```

147 %\DeclareLocalOptions{%
148 %   atend,%
149 %   bold,%
150 %   color,%
151 %   depth,%
152 %   dest,%
153 %   draft,%
154 %   final,%
155 %   gotor,%
156 %   italic,%
157 %   keeplevel,%
158 %   level,%
159 %   named,%
160 %   numbered,%
161 %   open,%
162 %   openlevel,%
163 %   page,%
164 %   rawaction,%
165 %   rellevel,%
166 %   srcfile,%
167 %   srcline,%
168 %   startatroot,%
169 %   uri,%
170 %   view,%
171 %}

```

\bookmarksetup

```

172 \newcommand*{\bookmarksetup}{\SetKeys[BKM]}

```

(End of definition for \bookmarksetup. This function is documented on page 4.)

\BKM@setup

```

173 \def\BKM@setup#1{%
174   \bookmarksetup{#1}%
175   \ifx\BKM@HookNext\@empty
176   \else
177     \expandafter\bookmarksetup\expandafter{\BKM@HookNext}%

```

```

178     \BKM@HookNextClear
179   \fi
180   \BKM@hook
181   \ifBKM@keeplevel
182   \else
183     \xdef\BKM@currentlevel{\BKM@level}%
184   \fi
185 }

```

(End of definition for \BKM@setup. This function is documented on page ??.)

\bookmarksetupnext

```

186 \newcommand*{\bookmarksetupnext}[1]{%
187   \BKM@GlobalAppendToMacro\BKM@HookNext{,#1}%
188 }

```

(End of definition for \bookmarksetupnext. This function is documented on page 4.)

\BKM@HookNextClear

```

189 \def\BKM@HookNextClear{%
190   \global\let\BKM@HookNext\@empty
191 }

```

(End of definition for \BKM@HookNextClear. This function is documented on page ??.)

\BKM@HookNext

```

192 \BKM@HookNextClear

```

(End of definition for \BKM@HookNext. This function is documented on page ??.)

draft (*key*)

final (*key*)

```

193 \DeclareKeys[BKM]
194 {
195   ,draft.legacy_if_set:n = BKM@draft
196   ,final.legacy_if_set_inverse:n = BKM@draft
197   ,draft.usage:n = load
198   ,final.usage:n = load
199 }

```

open (*key*)

```

200 \DeclareKeys[BKM]
201 {
202   ,open.legacy_if_set:n = BKM@open
203   ,open.initial:e = \ifHy@bookmarksopen true\else false\fi
204 }

```

\bookmark@open

```

205 \def\bookmark@open{%
206   \ifBKM@open\@ne\else\z@\fi
207 }

```

(End of definition for \bookmark@open. This function is documented on page ??.)

openlevel (*key*)

```

208 \DeclareKeys[BKM]
209 {
210   ,openlevel.tl_set:N = \BKM@openlevel
211   ,openlevel.initial:e = \number\@bookmarksopenlevel
212 }

```

\BKM@depth

```

213 \@ifundefined{Hy@bookmarksdepth}{%
214   \def\BKM@depth{\c@tocdepth}%
215 }{%
216   \let\BKM@depth\Hy@bookmarksdepth
217 }

```

(End of definition for \BKM@depth. This function is documented on page ??.)

depth (*key*)

```

218 \DeclareKeys[BKM]
219 {
220   ,depth.code:n =
221   {%
222     \edef\BKM@param{#1}%
223     \ifx\BKM@param\@empty
224       \def\BKM@depth{\c@tocdepth}%
225     \else
226       \@ifundefined{toclevel@\BKM@param}{%
227         \@onelevel@sanitize\BKM@param
228         \edef\BKM@temp{\expandafter\@car\BKM@param\@nil}%
229         \ifcase 0\expandafter\ifx\BKM@temp-1\fi
230           \expandafter\ifnum\expandafter`\BKM@temp>47 %
231             \expandafter\ifnum\expandafter`\BKM@temp<58 %
232               1%
233             \fi
234             \fi
235             \relax
236           \PackageWarning{bookmark}{%
237             Unknown document division name (\BKM@param)\MessageBreak
238             for option `depth'%
239           }%
240         \else
241           \BKM@SetDepthOrLevel\BKM@depth\BKM@param
242         \fi
243       }{%
244         \BKM@SetDepthOrLevel\BKM@depth{%
245           \csname toclevel@\BKM@param\endcsname
246         }%
247       }%
248     \fi
249   }
250 }

```

\bookmark@depth

```

251 \def\bookmark@depth{\BKM@depth}

```

(End of definition for \bookmark@depth. This function is documented on page ??.)

\BKM@SetDepthOrLevel

```

252 \def\BKM@SetDepthOrLevel#1#2{%
253   \begingroup
254     \setbox\z@=\hbox{%
255       \count@=#2\relax
256     \expandafter
257   }%
258 \expandafter\endgroup
259 \expandafter\def\expandafter#1\expandafter{\the\count@}%
260 }

```

(End of definition for \BKM@SetDepthOrLevel. This function is documented on page ??.)

\BKM@set@level

```

261 \newcommand\BKM@set@level[1]{%
262   \edef\BKM@param{#1}%
263   \ifx\BKM@param\BKM@MacroCurrentLevel
264     \let\BKM@level\BKM@param
265   \else
266     \ifundefined{toclevel@\BKM@param}{%
267       \@onelevel@sanitize\BKM@param
268       \edef\BKM@temp{\expandafter\@car\BKM@param\@nil}%
269       \ifcase 0\expandafter\ifx\BKM@temp-1\fi
270         \expandafter\ifnum\expandafter`\BKM@temp>47 %
271           \expandafter\ifnum\expandafter`\BKM@temp<58 %
272             1%
273           \fi
274         \fi
275       \relax
276       \PackageWarning{bookmark}{%
277         Unknown document division name (\BKM@param)\MessageBreak
278         for option `level'%
279       }%
280     \else
281       \BKM@SetDepthOrLevel\BKM@level\BKM@param
282     \fi
283   }{%
284     \BKM@SetDepthOrLevel\BKM@level{%
285       \csname toclevel@\BKM@param\endcsname
286     }%
287   }%
288 \fi
289 }

```

(End of definition for \BKM@set@level. This function is documented on page ??.)

\BKM@level

```

290 \def\BKM@level{\BKM@currentlevel}

```

(End of definition for \BKM@level. This function is documented on page ??.)

level (*key*)

```
291 \DeclareKeys[BKM]
292 {
293   ,level.code:n      = \BKM@set@level{#1}
294   ,level.default:n = \BKM@currentlevel
295 }
```

\BKM@MacroCurrentLevel

```
296 \def\BKM@MacroCurrentLevel{\BKM@currentlevel}
```

(End of definition for \BKM@MacroCurrentLevel. This function is documented on page ??.)

keeplevel (*key*)

startatroot (*key*)

```
297 \DeclareKeys[BKM]
298 {
299   ,keeplevel.legacy_if_set:n = BKM@keeplevel
300   ,startatroot.legacy_if_set:n = BKM@startatroot
301 }
```

\BKM@startatrootfalse

```
302 \def\BKM@startatrootfalse{%
303   \global\let\ifBKM@startatroot\iffalse
304 }
```

(End of definition for \BKM@startatrootfalse. This function is documented on page ??.)

\BKM@startatroottrue

```
305 \def\BKM@startatroottrue{%
306   \global\let\ifBKM@startatroot\iftrue
307 }
```

(End of definition for \BKM@startatroottrue. This function is documented on page ??.)

rellevel (*key*)

```
308 \DeclareKeys[BKM]
309 {
310   ,rellevel.code:n = {\BKM@CalcExpr\BKM@level{#1}+\BKM@currentlevel}
311 }
```

\bookmark@level

```
312 \def\bookmark@level{\BKM@level}
```

(End of definition for \bookmark@level. This function is documented on page ??.)

\BKM@currentlevel

```
313 \def\BKM@currentlevel{0}
```

(End of definition for \BKM@currentlevel. This function is documented on page ??.)

`numbered` (*key*) Make bookmark's option `numbered` an alias for `hyperref`'s `bookmarksnumbered`.

```

314 \DeclareKeys[BKM]
315 {
316   ,numbered.legacy_if_set:n = BKM@numbered
317   ,numbered.initial:e = \ifHy@bookmarksnumbered true\else false\fi
318 }
319 \g@addto@macro\BKM@numberedtrue{%
320   \let\ifHy@bookmarksnumbered\iftrue
321 }
322 \g@addto@macro\BKM@numberedfalse{%
323   \let\ifHy@bookmarksnumbered\iffalse
324 }
325 \g@addto@macro\Hy@bookmarksnumberedtrue{%
326   \let\ifBKM@numbered\iftrue
327 }
328 \g@addto@macro\Hy@bookmarksnumberedfalse{%
329   \let\ifBKM@numbered\iffalse
330 }

```

`\bookmark@numbered`

```

331 \def\bookmark@numbered{%
332   \ifBKM@numbered\@ne\else\z@\fi
333 }

```

(End of definition for \bookmark@numbered. This function is documented on page ??.)

Redefinitions `hyperref`'s options

`\BKM@PatchHyperrefOption`

```

334 \def\BKM@PatchHyperrefOption#1{%
335   \expandafter\BKM@@PatchHyperrefOption\csname KV@Hyp@#1\endcsname%
336 }

```

(End of definition for \BKM@PatchHyperrefOption. This function is documented on page ??.)

`\BKM@@PatchHyperrefOption`

```

337 \def\BKM@@PatchHyperrefOption#1{%
338   \expandafter\BKM@@@PatchHyperrefOption#1{##1}\BKM@nil#1%
339 }

```

(End of definition for \BKM@@PatchHyperrefOption. This function is documented on page ??.)

`\BKM@@@PatchHyperrefOption`

```

340 \def\BKM@@@PatchHyperrefOption#1\BKM@nil#2#3{%
341   \def#2##1{%
342     #1%
343     \bookmarksetup{#3={##1}}%
344   }%
345 }

```

(End of definition for \BKM@@@PatchHyperrefOption. This function is documented on page ??.)

```

346 \BKM@PatchHyperrefOption{bookmarksopen}{open}
347 \BKM@PatchHyperrefOption{bookmarksopenlevel}{openlevel}
348 \BKM@PatchHyperrefOption{bookmarksdepth}{depth}

```

Font style options. Caution: Package bitset is zero-based, the PDF specifications starts with one.

```

italic (key)
bold (key)
349 \bitsetReset{BKM@FontStyle}%
350 \DeclareKeys[BKM]
351 {
352   ,italic.code:n =
353   {
354     \expandafter\ifx\csname if#1\endcsname\iftrue
355     \bitsetSet{BKM@FontStyle}{0}%
356     \else
357     \bitsetClear{BKM@FontStyle}{0}%
358     \fi
359   }
360   ,italic.default:n = true
361   ,bold.code:n =
362   {
363     \expandafter\ifx\csname if#1\endcsname\iftrue
364     \bitsetSet{BKM@FontStyle}{1}%
365     \else
366     \bitsetClear{BKM@FontStyle}{1}%
367     \fi
368   }
369   ,bold.default:n = true
370 }

```

\bookmark@italic

```

371 \def\bookmark@italic{%
372   \ifnum\bitsetGet{BKM@FontStyle}{0}=1 \@ne\else\z@\fi
373 }

```

(End of definition for \bookmark@italic. This function is documented on page ??.)

\bookmark@bold

```

374 \def\bookmark@bold{%
375   \ifnum\bitsetGet{BKM@FontStyle}{1}=1 \@ne\else\z@\fi
376 }

```

(End of definition for \bookmark@bold. This function is documented on page ??.)

\BKM@PrintStyle

```

377 \def\BKM@PrintStyle{%
378   \bitsetGetDec{BKM@FontStyle}%
379 }%

```

(End of definition for \BKM@PrintStyle. This function is documented on page ??.)

Options for color. If the PDF management is loaded we make use of l3color commands for color expressions, without it they only work if xcolor has been loaded.

`_BKM_color_set:nn` Color keys need to parse color expressions. Two input types are supported: `color=[rgb]{1,0,.5}` and `color=red!50!blue`.

```

380 \ExplSyntaxOn
381 \cs_new_protected:Npn \_BKM_color_set:nn #1 #2
382 {
383   \tl_if_head_eq_charcode:nNTF {#2}[ %]
384   {
385     \_BKM_color_set_aux:nwn { #1 } #2
386   }
387   {
388     \color_set:nn {#1} {#2}
389   }
390 }
391
392 \cs_new_protected:Npn \_BKM_color_set_aux:nwn #1 [#2] #3
393 {
394   \color_set:nnn {#1}{#2}{#3}
395 }
396
397 \cs_generate_variant:Nn \_BKM_color_set:nn {ne}
398 \str_new:N\g__BKM_colormodel_str

```

(End of definition for `_BKM_color_set:nn` and `_BKM_color_set_aux:nwn`.)

`colormodel (key)`

```

399 \keys_define:nn { BKM }
400 {
401   ,colormodel .choices:nn =
402     {rgb,cmyk}
403     { \str_gset:Nn \g__BKM_colormodel_str {space-sep-#1}}
404   ,colormodel .initial:n ={rgb}
405 }

```

If the PDF management is active, we use the `l3color` export function.

`color (key)`

```

406 \IfPDFManagementActiveTF
407 {
408   \DeclareKeys[BKM]
409   {
410     ,color.code:n =
411     {
412       \tl_if_blank:nTF {#1}
413       { \cs_set_eq:NN\BKM@color\@empty }
414       {
415         \_BKM_color_set:ne {_BKM/tmpa}{#1}
416         \color_export:nVN
417           {_BKM/tmpa}
418           \g__BKM_colormodel_str
419           \BKM@color
420       }
421     }
422   }
423 }

```

```

424 {
425   \DeclareKeys[BKM]
426   {
427     ,color.code:n =
428     {\HyColor@BookmarkColor{#1}\BKM@color{bookmark}{color}}
429   }
430 }
431 \ExplSyntaxOff

```

`\BKM@color`

```

432 \let\BKM@color\@empty

```

(End of definition for \BKM@color. This function is documented on page ??.)

`\bookmark@color`

```

433 \def\bookmark@color{\BKM@color}

```

(End of definition for \bookmark@color. This function is documented on page ??.)

3.1.3 Action options

```

dest (key)
named (key) 434 \ExplSyntaxOn
uri (key)    435 \def\BKM@temp#1{%
gotor (key)  436   \DeclareKeys[BKM]{#1.tl_set:c = BKM@#1}%
rawaction (key) 437   \expandafter\edef\csname bookmark@#1\endcsname{%
438     \expandafter\noexpand\csname BKM@#1\endcsname
439   }%
440 }
441 \ExplSyntaxOff

```

`\bookmark@dest`

```

442 \BKM@temp{dest}

```

(End of definition for \bookmark@dest. This function is documented on page ??.)

`\bookmark@named`

```

443 \BKM@temp{named}

```

(End of definition for \bookmark@named. This function is documented on page ??.)

`\bookmark@uri`

```

444 \BKM@temp{uri}

```

(End of definition for \bookmark@uri. This function is documented on page ??.)

`\bookmark@gotor`

```

445 \BKM@temp{gotor}

```

(End of definition for \bookmark@gotor. This function is documented on page ??.)

`\bookmark@rawaction`

```

446 \BKM@temp{rawaction}

```

(End of definition for \bookmark@rawaction. This function is documented on page ??.)

page (*key*)

```
447 \DeclareKeys[BKM]
448 {
449   ,page.code:n =
450   {%
451     \def\BKM@page{#1}%
452     \ifx\BKM@page\@empty
453     \else
454     \edef\BKM@page{\number\BKM@page}%
455     \ifnum\BKM@page>\z@
456     \else
457     \PackageError{bookmark}{Page must be positive}\@ehc
458     \def\BKM@page{1}%
459     \fi
460     \fi
461   }
462 }
```

\BKM@page

```
463 \let\BKM@page\@empty
```

(End of definition for \BKM@page. This function is documented on page ??.)

\bookmark@page

```
464 \def\bookmark@page{\BKM@page}
```

(End of definition for \bookmark@page. This function is documented on page ??.)

view (*key*)

```
465 \DeclareKeys[BKM]
466 {
467   ,view.code:n = {\BKM@CheckView{#1}}
468 }
```

\BKM@view

```
469 \let\BKM@view\@empty
```

(End of definition for \BKM@view. This function is documented on page ??.)

\bookmark@view

```
470 \def\bookmark@view{\BKM@view}
```

(End of definition for \bookmark@view. This function is documented on page ??.)

\BKM@CheckView

```
471 \def\BKM@CheckView#1{%
472   \BKM@CheckViewType#1 \@nil
473 }
```

(End of definition for \BKM@CheckView. This function is documented on page ??.)

\BKM@CheckViewType

```

474 \def\BKM@CheckViewType#1 #2\@nil{%
475   \def\BKM@type{#1}%
476   \@onelevel@sanitize\BKM@type
477   \BKM@TestViewType{Fit}{}%
478   \BKM@TestViewType{FitB}{}%
479   \BKM@TestViewType{FitH}{%
480     \BKM@CheckParam#2 \@nil{top}%
481   }%
482   \BKM@TestViewType{FitBH}{%
483     \BKM@CheckParam#2 \@nil{top}%
484   }%
485   \BKM@TestViewType{FitV}{%
486     \BKM@CheckParam#2 \@nil{bottom}%
487   }%
488   \BKM@TestViewType{FitBV}{%
489     \BKM@CheckParam#2 \@nil{bottom}%
490   }%
491   \BKM@TestViewType{FitR}{%
492     \BKM@CheckRect{#2}{ }%
493   }%
494   \BKM@TestViewType{XYZ}{%
495     \BKM@CheckXYZ{#2}{ }%
496   }%
497   \@car{%
498     \PackageError{bookmark}{%
499       Unknown view type `BKM@type',\MessageBreak
500       using `FitH' instead%
501     } \@ehc
502     \def\BKM@view{FitH}%
503   }%
504   \@nil
505 }

```

(End of definition for \BKM@CheckViewType. This function is documented on page ??.)

\BKM@TestViewType

```

506 \def\BKM@TestViewType#1{%
507   \def\BKM@temp{#1}%
508   \@onelevel@sanitize\BKM@temp
509   \ifx\BKM@type\BKM@temp
510     \let\BKM@view\BKM@temp
511     \expandafter\@car
512   \else
513     \expandafter\@gobble
514   \fi
515 }

```

(End of definition for \BKM@TestViewType. This function is documented on page ??.)

\BKM@CheckParam

```

516 \def\BKM@CheckParam#1 #2\@nil#3{%
517   \def\BKM@param{#1}%
518   \ifx\BKM@param\@empty
519     \PackageWarning{bookmark}{%

```

```

520     Missing parameter (#3) for '\BKM@type',\MessageBreak
521     using 0%
522   }%
523   \def\BKM@param{0}%
524 \else
525   \BKM@CalcParam
526 \fi
527 \edef\BKM@view{\BKM@view\space\BKM@param}%
528 }

```

(End of definition for \BKM@CheckParam. This function is documented on page ??.)

\BKM@CheckRect

```

529 \def\BKM@CheckRect#1#2{%
530   \BKM@@CheckRect#1#2#2#2\@nil
531 }

```

(End of definition for \BKM@CheckRect. This function is documented on page ??.)

\BKM@@CheckRect

```

532 \def\BKM@@CheckRect#1 #2 #3 #4 #5\@nil{%
533   \def\BKM@temp{0}%
534   \def\BKM@param{#1}%
535   \ifx\BKM@param\@empty
536     \def\BKM@param{0}%
537     \def\BKM@temp{1}%
538   \else
539     \BKM@CalcParam
540   \fi
541   \edef\BKM@view{\BKM@view\space\BKM@param}%
542   \def\BKM@param{#2}%
543   \ifx\BKM@param\@empty
544     \def\BKM@param{0}%
545     \def\BKM@temp{1}%
546   \else
547     \BKM@CalcParam
548   \fi
549   \edef\BKM@view{\BKM@view\space\BKM@param}%
550   \def\BKM@param{#3}%
551   \ifx\BKM@param\@empty
552     \def\BKM@param{0}%
553     \def\BKM@temp{1}%
554   \else
555     \BKM@CalcParam
556   \fi
557   \edef\BKM@view{\BKM@view\space\BKM@param}%
558   \def\BKM@param{#4}%
559   \ifx\BKM@param\@empty
560     \def\BKM@param{0}%
561     \def\BKM@temp{1}%
562   \else
563     \BKM@CalcParam
564   \fi
565   \edef\BKM@view{\BKM@view\space\BKM@param}%
566   \ifnum\BKM@temp>\z@

```



```

567     \PackageWarning{bookmark}{Missing parameters for `\'BKM@type'}%
568     \fi
569 }

```

(End of definition for \BKM@@CheckRect. This function is documented on page ??.)

\BKM@CheckXYZ

```

570 \def\BKM@CheckXYZ#1#2{%
571     \BKM@@CheckXYZ#1#2#2\@nil
572 }

```

(End of definition for \BKM@CheckXYZ. This function is documented on page ??.)

\BKM@@CheckXYZ

```

573 \def\BKM@@CheckXYZ#1 #2 #3 #4\@nil{%
574     \def\BKM@param{#1}%
575     \let\BKM@temp\BKM@param
576     \@onelevel@sanitize\BKM@temp
577     \ifx\BKM@param\@empty
578         \let\BKM@param\BKM@null
579     \else
580         \ifx\BKM@temp\BKM@null
581             \else
582                 \BKM@CalcParam
583             \fi
584         \fi
585     \edef\BKM@view{\BKM@view\space\BKM@param}%
586     \def\BKM@param{#2}%
587     \let\BKM@temp\BKM@param
588     \@onelevel@sanitize\BKM@temp
589     \ifx\BKM@param\@empty
590         \let\BKM@param\BKM@null
591     \else
592         \ifx\BKM@temp\BKM@null
593             \else
594                 \BKM@CalcParam
595             \fi
596         \fi
597     \edef\BKM@view{\BKM@view\space\BKM@param}%
598     \def\BKM@param{#3}%
599     \ifx\BKM@param\@empty
600         \let\BKM@param\BKM@null
601     \fi
602     \edef\BKM@view{\BKM@view\space\BKM@param}%
603 }

```

(End of definition for \BKM@@CheckXYZ. This function is documented on page ??.)

\BKM@null

```

604 \def\BKM@null{null}
605 \@onelevel@sanitize\BKM@null

```

(End of definition for \BKM@null. This function is documented on page ??.)

\BKM@CalcParam

```

606 \def\BKM@CalcParam{%
607   \begingroup
608   \let\calc\@firstofone
609   \expandafter\BKM@@CalcParam\BKM@param\@empty\@empty\@nil
610 }

```

(End of definition for \BKM@CalcParam. This function is documented on page ??.)

\BKM@@CalcParam

```

611 \def\BKM@@CalcParam#1#2#3\@nil{%
612   \ifx\calc#1%
613     \@ifundefined{calc@assign@dimen}{%
614       \@ifundefined{dimexpr}{%
615         \setlength{\dimen@}{#2}%
616       }{%
617         \setlength{\dimen@}{\dimexpr#2\relax}%
618       }%
619     }{%
620       \setlength{\dimen@}{#2}%
621     }%
622     \dimen@.99626\dimen@
623     \edef\BKM@param{\strip@pt\dimen@}%
624     \expandafter\endgroup
625     \expandafter\def\expandafter\BKM@param\expandafter{\BKM@param}%
626   \else
627     \endgroup
628   \fi
629 }

```

(End of definition for \BKM@@CalcParam. This function is documented on page ??.)

3.1.4 Option atend

atend (*key*)

```

630 \DeclareKeys[BKM]
631 {
632   ,atend.legacy_if_set:n = BKM@atend
633   ,atend.usage:n = load
634 }

```

3.1.5 Option style

\bookmarkdefinestyle

```

635 \newcommand*{\bookmarkdefinestyle}[2]{%
636   \@ifundefined{BKM@style@#1}{%
637     }{%
638       \PackageInfo{bookmark}{Redefining style `#1'}%
639     }%
640   \@namedef{BKM@style@#1}{#2}%
641 }

```

(End of definition for \bookmarkdefinestyle. This function is documented on page 7.)

style (*key*)

```
642 \DeclareKeys[BKM]
643 {
644   ,style.code:n = {\BKM@StyleCall{#1}}
645 }
646 \newif\ifBKM@ok
```

\BKM@StyleCall

```
647 \def\BKM@StyleCall#1{%
648   \@ifundefined{BKM@style@#1}{%
649     \PackageWarning{bookmark}{%
650       Ignoring unknown style `#1'%
651     }%
652   }{%
```

Check style stack.

```
653   \BKM@oktrue
654   \edef\BKM@StyleCurrent{#1}%
655   \@onelevel@sanitize\BKM@StyleCurrent
656   \let\BKM@StyleEntry\BKM@StyleEntryCheck
657   \BKM@StyleStack
658   \ifBKM@ok
659     \expandafter\@firstofone
660   \else
661     \PackageError{bookmark}{%
662       Ignoring recursive call of style `\'BKM@StyleCurrent'%
663     }\@ehc
664     \expandafter\@gobble
665   \fi
666   {%
```

Push current style on stack.

```
667   \let\BKM@StyleEntry\relax
668   \edef\BKM@StyleStack{%
669     \BKM@StyleEntry{\BKM@StyleCurrent}%
670     \BKM@StyleStack
671   }%
```

Call style.

```
672   \expandafter\expandafter\expandafter\bookmarksetup
673   \expandafter\expandafter\expandafter{%
674     \csname BKM@style@\BKM@StyleCurrent\endcsname
675   }%
```

Pop current style from stack.

```
676   \BKM@StyleStackPop
677   }%
678 }%
679 }
```

(End of definition for \BKM@StyleCall. This function is documented on page ??.)

`\BKM@StyleStackPop`

```
680 \def\BKM@StyleStackPop{%
681   \let\BKM@StyleEntry\relax
682   \edef\BKM@StyleStack{%
683     \expandafter\@gobbletwo\BKM@StyleStack
684   }%
685 }
```

(End of definition for \BKM@StyleStackPop. This function is documented on page ??.)

`\BKM@StyleEntryCheck`

```
686 \def\BKM@StyleEntryCheck#1{%
687   \def\BKM@temp{#1}%
688   \ifx\BKM@temp\BKM@StyleCurrent
689     \BKM@okfalse
690   \fi
691 }
```

(End of definition for \BKM@StyleEntryCheck. This function is documented on page ??.)

`\BKM@StyleStack`

```
692 \def\BKM@StyleStack{}
```

(End of definition for \BKM@StyleStack. This function is documented on page ??.)

3.1.6 Options for source file location

`srcline` (*key*)

`srcfile` (*key*)

```
693 \DeclareKeys[BKM]
694 {
695   ,srcline.tl_set:N = \BKM@srcline
696   ,srcfile.tl_set:N = \BKM@srcfile
697 }
```

3.1.7 Hook support

`\BKM@hook`

```
698 \def\BKM@hook{}
```

(End of definition for \BKM@hook. This function is documented on page ??.)

`addtohook` (*key*)

```
699 \DeclareKeys[BKM]
700 {
701   ,addtohook.code:n = {\BKM@LocalAppendToMacro\BKM@hook{#1}}
702 }
```

`\bookmarkget`

```
703 \newcommand*{\bookmarkget}[1]{%
704   \romannumeral0%
705   \@ifundefined{bookmark@#1}{%
706     \BKM@space
707   }{%
708     \expandafter\expandafter\expandafter\BKM@space
709     \csname bookmark@#1\endcsname
710   }%
711 }
```

(End of definition for `\bookmarkget`. This function is documented on page 7.)

3.1.8 Driver setup and loading

Driver detection.

`\BKM@DefineDriverKey`

```

712 \def\BKM@DefineDriverKey#1{%
713   \DeclareKeys[BKM]
714   {
715     ,#1.code:n =
716     {\def\BKM@driver{#1}%
717      \PackageWarning{bookmark}{Option '#1' is obsolete
718       and ignored}{}}
719   }
720 }
```

(End of definition for `\BKM@DefineDriverKey`. This function is documented on page ??.)

```

721 \BKM@DefineDriverKey{pdftex}
722 \BKM@DefineDriverKey{dvips}
723 \BKM@DefineDriverKey{dvipdfm}
724 \BKM@DefineDriverKey{dvipdfmx}
725 \BKM@DefineDriverKey{xetex}
726 \BKM@DefineDriverKey{vtex}
727 \DeclareKeys[BKM]
728 {
729   ,dvipdfmx-outline-open.code:n =
730   {%
731     \PackageWarning{bookmark}{Option 'dvipdfmx-outline-open' is obsolete
732      and ignored}{}}
733   }
734   ,dvipdfmx-outline-open.default:n=true
735 }

736 \InputIfFileExists{bookmark.cfg}{-}{-}
```

Process options.

```

737 \let\BKM@raw@classoptionlist\@raw@classoptionslist
738 \let\@raw@classoptionslist\relax
739 \ProcessKeyOptions[BKM]
740 \let\@raw@classoptionslist\BKM@raw@classoptionlist
```

Option draft

```

741 \ifBKM@draft
742   \PackageWarningNoLine{bookmark}{Draft mode on}%
743   \let\bookmarksetup\@gobble
744   \let\BookmarkAtEnd\@gobble
745   \let\bookmarkdefinestyle\@gobbletwo
746   \let\bookmarkget\@gobble
747   \let\pdfbookmark\@undefined
748   \newcommand*{\pdfbookmark}[3][{}]{%
749     \let\currentpdfbookmark\@gobbletwo
750     \let\subpdfbookmark\@gobbletwo
```

```

751 \let\belowpdfbookmark\@gobbletwo
752 \newcommand*{\bookmark}[2][{}]{%
753 \renewcommand*{\Hy@writebookmark}[5]{}%
754 \let\ReadBookmarks\relax
755 \let\BKM@DefGotoNameAction\@gobbletwo % package `hypdestopt'
756 \expandafter\endinput
757 \fi

```

Driver loading.

```

758 \ExplSyntaxOn
759 \ifvtex
760 \def\BKM@driver{vtex}
761 \else
762 \sys_ensure_backend:
763 \str_case:Nn \c_sys_backend_str
764 {
765   {pdftex} {\def\BKM@driver{pdftex}}
766   {luatex} {\def\BKM@driver{luatex}}
767   {xetex} {\def\BKM@driver{xetex}}
768   {dvipdfmx}{\def\BKM@driver{dvipdfmx}}
769   {dvips} {\def\BKM@driver{dvips}}
770 }
771 \fi
772 \ExplSyntaxOff
773 \InputIfFileExists{bkm-\BKM@driver.def}{-}{}

```

3.1.9 Compatibility for hyperref

`\pdfbookmark`

```

774 \let\pdfbookmark\@undefined
775 \newcommand*{\pdfbookmark}[3][0]{%
776 \bookmark[level=#1,dest={#3.#1}]{#2}%
777 \hyper@anchorstart{#3.#1}\hyper@anchorend
778 }

```

(End of definition for `\pdfbookmark`. This function is documented on page 8.)

`\currentpdfbookmark`

```

779 \def\currentpdfbookmark{%
780 \pdfbookmark[\BKM@currentlevel]%
781 }

```

(End of definition for `\currentpdfbookmark`. This function is documented on page 8.)

`\subpdfbookmark`

```

782 \def\subpdfbookmark{%
783 \BKM@CalcExpr\BKM@CalcResult\BKM@currentlevel+1%
784 \expandafter\pdfbookmark\expandafter[\BKM@CalcResult]%
785 }

```

(End of definition for `\subpdfbookmark`. This function is documented on page 8.)

`\belowpdfbookmark`

```
786 \def\belowpdfbookmark#1#2{%  
787   \xdef\BKM@gtmp{\number\BKM@currentlevel}%  
788   \subpdfbookmark{#1}{#2}%  
789   \global\let\BKM@currentlevel\BKM@gtmp  
790 }
```

(End of definition for \belowpdfbookmark. This function is documented on page 8.)

Section number, text, label, level, file

`\Hy@writebookmark`

```
791 \def\Hy@writebookmark#1#2#3#4#5{%  
792   \ifnum#4>\BKM@depth\relax  
793   \else  
794     \edef\BKM@type{#5}%  
795     \ifx\BKM@type\Hy@bookmarkstype  
796       \begingroup  
797         \ifBKM@numbered  
798           \let\numberline\Hy@numberline  
799           \let\booknumberline\Hy@numberline  
800           \let\partnumberline\Hy@numberline  
801           \let\chapternumberline\Hy@numberline  
802         \else  
803           \let\numberline\@gobble  
804           \let\booknumberline\@gobble  
805           \let\partnumberline\@gobble  
806           \let\chapternumberline\@gobble  
807         \fi  
808         \bookmark[level=#4,dest={\HyperDestNameFilter{#3}}]{#2}%  
809       \endgroup  
810     \fi  
811   \fi  
812 }
```

(End of definition for \Hy@writebookmark. This function is documented on page ??.)

`\ReadBookmarks`

```
813 \let\ReadBookmarks\relax
```

(End of definition for \ReadBookmarks.)

```
814 \</package>
```

3.2 Driver for dvipdfm

```
815 <*dvipdfmx>  
816 \NeedsTeXFormat{LaTeX2e}  
817 \ProvidesFile{bkm-dvipdfmx.def}%  
818   [2026-05-21 v1.32 bookmark driver for dvipdfm (H0)]%  
819 </dvipdfmx>  
  
820 <*xetex>  
821 \NeedsTeXFormat{LaTeX2e}  
822 \ProvidesFile{bkm-xetex.def}%  
823   [2026-05-21 v1.32 bookmark driver for xetex (H0)]%  
824 </xetex>
```

```

825 < *dvipdfmx | xetex >

\BKM@id
826 \newcount\BKM@id
827 \BKM@id=\z@
(End of definition for \BKM@id.)

\BKM@O
828 \@namedef{BKM@O}{000}
(End of definition for \BKM@O.)

\ifBKM@sw
829 \newif\ifBKM@sw
(End of definition for \ifBKM@sw.)

\BKM@struct@dest Support for structure destinations in the outline.
830 \newcommand\BKM@struct@dest{}
831 \ExplSyntaxOn
832 \IfDocumentMetadataTF
833 {
834   \tag_if_active:T
835   {
836     \def\BKM@struct@dest{/SD~@pdf.SDest.\BKM@dest}
837   }
838 }
839 {}
840 \ExplSyntaxOff
(End of definition for \BKM@struct@dest.)

\bookmark
841 \newcommand*{\bookmark}[2][{}]{%
842   \if@filesw
843     \begingroup
844     \def\bookmark@text{#2}%
845     \BKM@setup{#1}%
846     \edef\BKM@prev{\the\BKM@id}%
847     \global\advance\BKM@id\@ne
848     \BKM@swtrue
849     \@whilesw\ifBKM@sw\fi{%
850       \def\BKM@abslevel{1}%
851       \ifnum\ifBKM@startatroot\z@\else\BKM@prev\fi=\z@
852         \BKM@startatrootfalse
853       \expandafter\xdef\csname BKM@\the\BKM@id\endcsname{%
854         0{\BKM@level}\BKM@abslevel
855       }%
856       \BKM@swfalse
857     }
858     \expandafter\expandafter\expandafter\BKM@getx
859       \csname BKM@\BKM@prev\endcsname
860     \ifnum\BKM@level>\BKM@x@level\relax
861       \BKM@CalcExpr\BKM@abslevel\BKM@x@abslevel+1%

```



```

862         \expandafter\xdef\csname BKM@\the\BKM@id\endcsname{%
863             {\BKM@prev}{\BKM@level}\BKM@abslevel
864         }%
865         \BKM@swfalse
866     \else
867         \let\BKM@prev\BKM@x@parent
868     \fi
869 \fi
870 }%
871 \csname HyPsd@XeTeXBigCharstrue\endcsname
872 \pdfstringdef\BKM@title{\bookmark@text}%
873 \edef\BKM@FLAGS{\BKM@PrintStyle}%
874 \let\BKM@action\@empty
875 \ifx\BKM@goto\@empty
876     \ifx\BKM@dest\@empty
877         \ifx\BKM@named\@empty
878             \ifx\BKM@rawaction\@empty
879                 \ifx\BKM@uri\@empty
880                     \ifx\BKM@page\@empty
881                         \PackageError{bookmark}{Missing action}\@ehc
882                         \edef\BKM@action{/Dest[@page1/Fit]}%
883                     \else
884                         \ifx\BKM@view\@empty
885                             \def\BKM@view{Fit}%
886                         \fi
887                         \edef\BKM@action{/Dest[@page\BKM@page/\BKM@view]}%
888                     \fi
889                 \else
890                     \BKM@EscapeString\BKM@uri
891                     \edef\BKM@action{%
892                         /A<<%
893                         /S/URI%
894                         /URI(\BKM@uri)%
895                         >>%
896                     }%
897                 \fi
898             \else
899                 \edef\BKM@action{/A<<\BKM@rawaction>>}%
900             \fi
901         \else
902             \BKM@EscapeName\BKM@named
903             \edef\BKM@action{%
904                 /A<</S/Named/N/\BKM@named>>%
905             }%
906         \fi
907     \else
908         \BKM@EscapeString\BKM@dest
909         \edef\BKM@action{%
910             /A<<%
911             /S/GoTo%
912             /D(\BKM@dest)%
913             \BKM@struct@dest
914             >>%
915         }%

```

```

916     \fi
917 \else
918     \ifx\BKM@dest\@empty
919     \ifx\BKM@page\@empty
920     \def\BKM@page{0}%
921     \else
922     \BKM@CalcExpr\BKM@page\BKM@page-1%
923     \fi
924     \ifx\BKM@view\@empty
925     \def\BKM@view{Fit}%
926     \fi
927     \edef\BKM@action{/D[\BKM@page/\BKM@view]}}%
928 \else
929     \BKM@EscapeString\BKM@dest
930     \edef\BKM@action{/D(\BKM@dest)}}%
931 \fi
932 \BKM@EscapeString\BKM@gotor
933 \edef\BKM@action{%
934     /A<<%
935     /S/GoToR%
936     /F(\BKM@gotor)%
937     \BKM@action
938     >>%
939 }%
940 \fi
941 \special{pdf:%
942     out
943     [%
944     \ifBKM@open
945     \ifnum\BKM@level<%
946     \expandafter\@firstofone\expandafter
947     {\number\BKM@openlevel} %
948     \else
949     -%
950     \fi
951     \else
952     -%
953     \fi
954     ] %
955     \BKM@abslevel
956     <<%
957     /Title(\BKM@title)%
958     \ifx\BKM@color\@empty
959     \else
960     /C[\BKM@color]%
961     \fi
962     \ifnum\BKM@FLAGS>\z@
963     /F \BKM@FLAGS
964     \fi
965     \BKM@action
966     >>%
967 }%
968 \endgroup
969 \fi

```

```
970 }
```

(End of definition for \bookmark. This function is documented on page 4.)

\BKM@getx

```
971 \def\BKM@getx#1#2#3{%
972   \def\BKM@x@parent{#1}%
973   \def\BKM@x@level{#2}%
974   \def\BKM@x@abslevel{#3}%
975 }
```

(End of definition for \BKM@getx.)

```
976 </dvipdfmx | xetex>
```

3.3 Driver for VTeX

```
977 <*vtex>
978 \NeedsTeXFormat{LaTeX2e}
979 \ProvidesFile{bkm-vtex.def}%
980   [2026-05-21 v1.32 bookmark driver for VTeX (HO)]%

981 \ifvtexpdf
982 \else
983   \PackageWarningNoLine{bookmark}{%
984     The VTeX driver only supports PDF mode%
985   }%
986 \fi
```

\BKM@id

```
987 \newcount\BKM@id
988 \BKM@id=\z@
```

(End of definition for \BKM@id.)

\BKM@O

```
989 \@namedef{BKM@O}{00}
```

(End of definition for \BKM@O.)

\ifBKM@sw

```
990 \newif\ifBKM@sw
```

(End of definition for \ifBKM@sw.)

\bookmark

```
991 \newcommand*{\bookmark}[2][]{%
992   \if@filesw
993     \begingroup
994       \def\bookmark@text{#2}%
995       \BKM@setup{#1}%
996       \edef\BKM@prev{\the\BKM@id}%
997       \global\advance\BKM@id\@ne
998       \BKM@swtrue
999       \@whilesw\ifBKM@sw\fi{%
1000         \ifnum\ifBKM@startatroot\z@\else\BKM@prev\fi=\z@
```

```

1001         \BKM@startatrootfalse
1002         \def\BKM@parent{0}%
1003         \expandafter\xdef\csname BKM@\the\BKM@id\endcsname{%
1004             0{\BKM@level}%
1005         }%
1006         \BKM@swfalse
1007     \else
1008         \expandafter\expandafter\expandafter\BKM@getx
1009             \csname BKM@\BKM@prev\endcsname
1010         \ifnum\BKM@level>\BKM@x@level\relax
1011             \let\BKM@parent\BKM@prev
1012             \expandafter\xdef\csname BKM@\the\BKM@id\endcsname{%
1013                 {\BKM@prev}{\BKM@level}%
1014             }%
1015             \BKM@swfalse
1016         \else
1017             \let\BKM@prev\BKM@x@parent
1018         \fi
1019     \fi
1020 }%
1021 \pdfstringdef\BKM@title{\bookmark@text}%
1022 \BKM@vtex@title
1023 \edef\BKM@FLAGS{\BKM@PrintStyle}%
1024 \let\BKM@action\@empty
1025 \ifx\BKM@goto\@empty
1026     \ifx\BKM@dest\@empty
1027         \ifx\BKM@named\@empty
1028             \ifx\BKM@rawaction\@empty
1029                 \ifx\BKM@uri\@empty
1030                     \ifx\BKM@page\@empty
1031                         \PackageError{bookmark}{Missing action}\@ehc
1032                         \def\BKM@action{!}%
1033                     \else
1034                         \edef\BKM@action{!\BKM@page}%
1035                     \fi
1036                 \else
1037                     \BKM@EscapeString\BKM@uri
1038                     \edef\BKM@action{%
1039                         <u=%
1040                         /S/URI%
1041                         /URI(\BKM@uri)%
1042                         >%
1043                     }%
1044                 \fi
1045             \else
1046                 \edef\BKM@action{<u=\BKM@rawaction>}%
1047             \fi
1048         \else
1049             \BKM@EscapeName\BKM@named
1050             \edef\BKM@action{%
1051                 <u=%
1052                 /S/Named%
1053                 /N/\BKM@named
1054                 >%

```

```

1055         }%
1056     \fi
1057 \else
1058     \BKM@EscapeString\BKM@dest
1059     \edef\BKM@action{\BKM@dest}%
1060 \fi
1061 \else
1062     \ifx\BKM@dest\@empty
1063         \ifx\BKM@page\@empty
1064             \def\BKM@page{1}%
1065         \fi
1066         \ifx\BKM@view\@empty
1067             \def\BKM@view{Fit}%
1068         \fi
1069         \edef\BKM@action{/D[\BKM@page/\BKM@view]]}%
1070 \else
1071     \BKM@EscapeString\BKM@dest
1072     \edef\BKM@action{/D(\BKM@dest)]}%
1073 \fi
1074 \BKM@EscapeString\BKM@gotor
1075 \edef\BKM@action{%
1076     <u=%
1077         /S/GoToR%
1078         /F(\BKM@gotor)%
1079         \BKM@action
1080     >>%
1081 }%
1082 \fi
1083 \ifx\BKM@color\@empty
1084     \let\BKM@RGBcolor\@empty
1085 \else
1086     \expandafter\BKM@toRGB\BKM@color\@nil
1087 \fi
1088 \special{%
1089     !outline \BKM@action;%
1090     p=\BKM@parent,%
1091     i=\number\BKM@id,%
1092     s=%
1093     \ifBKM@open
1094         \ifnum\BKM@level<\BKM@openlevel
1095             o%
1096         \else
1097             c%
1098         \fi
1099     \else
1100         c%
1101     \fi,%
1102     \ifx\BKM@RGBcolor\@empty
1103     \else
1104         c=\BKM@RGBcolor,%
1105     \fi
1106     \ifnum\BKM@FLAGS>\z@
1107         f=\BKM@FLAGS,%
1108     \fi

```

```

1109         t=\BKM@title
1110     }%
1111 \endgroup
1112 \fi
1113 }

```

(End of definition for \bookmark. This function is documented on page 4.)

`\BKM@getx`

```

1114 \def\BKM@getx#1#2{%
1115     \def\BKM@x@parent{#1}%
1116     \def\BKM@x@level{#2}%
1117 }

```

(End of definition for \BKM@getx.)

`\BKM@toRGB`

```

1118 \def\BKM@toRGB#1 #2 #3@nil{%
1119     \let\BKM@RGBcolor\@empty
1120     \BKM@toRGBComponent{#1}%
1121     \BKM@toRGBComponent{#2}%
1122     \BKM@toRGBComponent{#3}%
1123 }

```

(End of definition for \BKM@toRGB.)

`\BKM@toRGBComponent`

```

1124 \def\BKM@toRGBComponent#1{%
1125     \dimen@=#1pt\relax
1126     \ifdim\dimen@>\z@
1127         \ifdim\dimen@<\p@
1128             \dimen@=255\dimen@
1129             \advance\dimen@ by 32768sp\relax
1130             \divide\dimen@ by 65536\relax
1131             \dimen@ii=\dimen@
1132             \divide\dimen@ii by 16\relax
1133             \edef\BKM@RGBcolor{%
1134                 \BKM@RGBcolor
1135                 \BKM@toHexDigit\dimen@ii
1136             }%
1137             \dimen@ii=16\dimen@ii
1138             \advance\dimen@-\dimen@ii
1139             \edef\BKM@RGBcolor{%
1140                 \BKM@RGBcolor
1141                 \BKM@toHexDigit\dimen@
1142             }%
1143         \else
1144             \edef\BKM@RGBcolor{\BKM@RGBcolor FF}%
1145         \fi
1146     \else
1147         \edef\BKM@RGBcolor{\BKM@RGBcolor00}%
1148     \fi
1149 }

```

(End of definition for \BKM@toRGBComponent.)

\BKM@toHexDigit

```
1150 \def\BKM@toHexDigit#1{%
1151   \ifcase\expandafter\@firstofone\expandafter{\number#1} %
1152     0\or 1\or 2\or 3\or 4\or 5\or 6\or 7\or
1153     8\or 9\or A\or B\or C\or D\or E\or F%
1154   \fi
1155 }
```

(End of definition for \BKM@toHexDigit.)

```
1156 \begingroup
1157   \catcode`\|=0 %
1158   \catcode`\|=12 %
```

\BKM@vtex@title

```
1159 |gdef|BKM@vtex@title{%
1160   |@onelevel@sanitize|BKM@title
1161   |edef|BKM@title{|expandafter|BKM@vtex@leftparen|BKM@title\(|@nil}%
1162   |edef|BKM@title{|expandafter|BKM@vtex@rightparen|BKM@title\)|@nil}%
1163   |edef|BKM@title{|expandafter|BKM@vtex@zero|BKM@title\0|@nil}%
1164   |edef|BKM@title{|expandafter|BKM@vtex@one|BKM@title\1|@nil}%
1165   |edef|BKM@title{|expandafter|BKM@vtex@two|BKM@title\2|@nil}%
1166   |edef|BKM@title{|expandafter|BKM@vtex@three|BKM@title\3|@nil}%
1167 }%
```

(End of definition for \BKM@vtex@title.)

\BKM@vtex@leftparen

```
1168 |gdef|BKM@vtex@leftparen#1\(#2|@nil{%
1169   #1%
1170   |ifx||#2||%
1171   |else
1172     (%
1173       |BKM@ReturnAfterFi{%
1174         |BKM@vtex@leftparen#2|@nil
1175       }%
1176     |fi
1177   }%
```

(End of definition for \BKM@vtex@leftparen.)

\BKM@vtex@rightparen

```
1178 |gdef|BKM@vtex@rightparen#1\)#2|@nil{%
1179   #1%
1180   |ifx||#2||%
1181   |else
1182     )%
1183     |BKM@ReturnAfterFi{%
1184       |BKM@vtex@rightparen#2|@nil
1185     }%
1186   |fi
1187 }%
```

(End of definition for \BKM@vtex@rightparen.)

\BKM@vtex@zero

```
1188 |gdef|BKM@vtex@zero#1\0#2|@nil{%  
1189   #1%  
1190   |ifx||#2||%  
1191   |else  
1192     |noexpand|hv@pdf@char0%  
1193     |BKM@ReturnAfterFi{%  
1194     |BKM@vtex@zero#2|@nil  
1195   }%  
1196   |fi  
1197 }%
```

(End of definition for \BKM@vtex@zero.)

\BKM@vtex@one

```
1198 |gdef|BKM@vtex@one#1\1#2|@nil{%  
1199   #1%  
1200   |ifx||#2||%  
1201   |else  
1202     |noexpand|hv@pdf@char1%  
1203     |BKM@ReturnAfterFi{%  
1204     |BKM@vtex@one#2|@nil  
1205   }%  
1206   |fi  
1207 }%
```

(End of definition for \BKM@vtex@one.)

\BKM@vtex@two

```
1208 |gdef|BKM@vtex@two#1\2#2|@nil{%  
1209   #1%  
1210   |ifx||#2||%  
1211   |else  
1212     |noexpand|hv@pdf@char2%  
1213     |BKM@ReturnAfterFi{%  
1214     |BKM@vtex@two#2|@nil  
1215   }%  
1216   |fi  
1217 }%
```

(End of definition for \BKM@vtex@two.)

\BKM@vtex@three

```
1218 |gdef|BKM@vtex@three#1\3#2|@nil{%  
1219   #1%  
1220   |ifx||#2||%  
1221   |else  
1222     |noexpand|hv@pdf@char3%  
1223     |BKM@ReturnAfterFi{%  
1224     |BKM@vtex@three#2|@nil  
1225   }%  
1226   |fi  
1227 }%
```

(End of definition for \BKM@vtex@three.)

1228 |endgroup

1229 </vtex>

3.4 Driver for pdfTeX

1230 <*pdfTeX>
1231 \NeedsTeXFormat{LaTeX2e}
1232 \ProvidesFile{bkm-pdfTeX.def}%
1233 [2026-05-21 v1.32 bookmark driver for pdfTeX (HO)]%
1234 </pdfTeX>

1235 <*luaTeX>
1236 \NeedsTeXFormat{LaTeX2e}
1237 \ProvidesFile{bkm-luaTeX.def}%
1238 [2026-05-21 v1.32 bookmark driver for luaTeX (HO)]%
1239 </luaTeX>

1240 <*pdfTeX | luaTeX>

\BKM@DO@entry

1241 \def\BKM@DO@entry#1#2{%
1242 \begingroup
1243 \SetKeys[BKM@DO]{#1}%
1244 \def\BKM@DO@title{#2}%
1245 \ifx\BKM@DO@srcfile\@empty
1246 \else
1247 \BKM@UnescapeHex\BKM@DO@srcfile
1248 \fi
1249 \BKM@UnescapeHex\BKM@DO@title
1250 \expandafter\expandafter\expandafter\BKM@getx
1251 \csname BKM@\BKM@DO@id\endcsname\@empty\@empty
1252 \let\BKM@attr\@empty
1253 \ifx\BKM@DO@flags\@empty
1254 \else
1255 \edef\BKM@attr{\BKM@attr/F \BKM@DO@flags}%
1256 \fi
1257 \ifx\BKM@DO@color\@empty
1258 \else
1259 \edef\BKM@attr{\BKM@attr/C[\BKM@DO@color]}%
1260 \fi
1261 \ifx\BKM@attr\@empty
1262 \else
1263 \edef\BKM@attr{attr{\BKM@attr}}%
1264 \fi
1265 \let\BKM@action\@empty
1266 \ifx\BKM@DO@goto\@empty
1267 \ifx\BKM@DO@dest\@empty
1268 \ifx\BKM@DO@named\@empty
1269 \ifx\BKM@DO@rawaction\@empty
1270 \ifx\BKM@DO@uri\@empty
1271 \ifx\BKM@DO@page\@empty
1272 \PackageError{bookmark}{%
1273 Missing action\BKM@SourceLocation

```

1274         }\@ehc
1275         \edef\BKM@action{goto page1{/Fit}}}%
1276     \else
1277         \ifx\BKM@D0@view\@empty
1278             \def\BKM@D0@view{Fit}%
1279         \fi
1280         \edef\BKM@action{goto page\BKM@D0@page{/BKM@D0@view}}}%
1281     \fi
1282 \else
1283     \BKM@UnescapeHex\BKM@D0@uri
1284     \BKM@EscapeString\BKM@D0@uri
1285     \edef\BKM@action{user{<</S/URI/URI(\BKM@D0@uri)>>}}}%
1286 \fi
1287 \else
1288     \BKM@UnescapeHex\BKM@D0@rawaction
1289     \edef\BKM@action{%
1290         user{%
1291             <<%
1292                 \BKM@D0@rawaction
1293             >>%
1294         }%
1295     }%
1296 \fi
1297 \else
1298     \BKM@EscapeName\BKM@D0@named
1299     \edef\BKM@action{%
1300         user{<</S/Named/N/\BKM@D0@named>>}}}%
1301     }%
1302 \fi
1303 \else
1304     \BKM@UnescapeHex\BKM@D0@dest
1305     \BKM@DefGotoNameAction\BKM@action\BKM@D0@dest
1306 \fi
1307 \else
1308     \ifx\BKM@D0@dest\@empty
1309         \ifx\BKM@D0@page\@empty
1310             \def\BKM@D0@page{0}%
1311         \else
1312             \BKM@CalcExpr\BKM@D0@page\BKM@D0@page-1%
1313         \fi
1314         \ifx\BKM@D0@view\@empty
1315             \def\BKM@D0@view{Fit}%
1316         \fi
1317         \edef\BKM@action{/D[\BKM@D0@page/\BKM@D0@view]}%
1318     \else
1319         \BKM@UnescapeHex\BKM@D0@dest
1320         \BKM@EscapeString\BKM@D0@dest
1321         \edef\BKM@action{/D(\BKM@D0@dest)}%
1322     \fi
1323     \BKM@UnescapeHex\BKM@D0@gotor
1324     \BKM@EscapeString\BKM@D0@gotor
1325     \edef\BKM@action{%
1326         user{%
1327             <<%

```

```

1328         /S/GoToR%
1329         /F(\BKM@DO@goto)%
1330         \BKM@action
1331     >>%
1332 }%
1333 }%
1334 \fi
1335 <pdfTeX> \pdfoutline\BKM@attr\BKM@action
1336 <LaTeX> \pdfextension outline\BKM@attr\BKM@action
1337         count\ifBKM@DO@open\else-\fi\BKM@x@childs
1338         {\BKM@DO@title}%
1339 \endgroup
1340 }

```

(End of definition for \BKM@DO@entry.)

\BKM@DefGotoNameAction Macro \BKM@DefGotoNameAction is a hook for package hypdestopt.

```

1341 \def\BKM@DefGotoNameAction#1#2{%
1342     \BKM@EscapeString\BKM@DO@dest
1343     \edef#1{goto name{#2}}%
1344 }

```

If tagging is active we use also structure destinations. If hypdestopt is actually used this will be overwritten again.

```

1345 \ExplSyntaxOn
1346 \IfDocumentMetadataTF
1347 {
1348     \tag_if_active:T
1349     {
1350         \def\BKM@DefGotoNameAction#1#2
1351         {
1352             \BKM@EscapeString\BKM@DO@dest
1353             \edef#1{goto~struct~name~{#2}~name~{#2}}%
1354         }
1355     }
1356 }{}
1357 \ExplSyntaxOff

```

(End of definition for \BKM@DefGotoNameAction.)

```

1358 </pdfTeX | LaTeX>
1359 <*pdfTeX | LaTeX | pdfmark>

```

\BKM@SourceLocation

```

1360 \def\BKM@SourceLocation{%
1361     \ifx\BKM@DO@srcfile\@empty
1362         \ifx\BKM@DO@srcline\@empty
1363             \else
1364                 .\MessageBreak
1365                 Source: line \BKM@DO@srcline
1366             \fi
1367         \else
1368             \ifx\BKM@DO@srcline\@empty
1369                 .\MessageBreak

```

```

1370     Source: file `BKM@DO@srcfile'%
1371   \else
1372     .\MessageBreak
1373     Source: file `BKM@DO@srcfile', line BKM@DO@srcline
1374   \fi
1375 \fi
1376 }

```

(End of definition for BKM@SourceLocation.)

```

1377 </pdfTeX | luatex | pdfmark>

```

3.5 Drivers with pdfmark specials

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>

```

1378 <*dvips>
1379 \NeedsTeXFormat{LaTeX2e}
1380 \ProvidesFile{bkm-dvips.def}%
1381 [2026-05-21 v1.32 bookmark driver for dvips (H0)]%

```

BKM@PSHeaderFile

```

1382 \defBKM@PSHeaderFile#1{%
1383   \special{PSfile=#1}%
1384 }

```

BKM@filename

```

1385 \defBKM@filename{\jobname.out.ps}

1386 \AddToHook{shipout/lastpage}{%
1387   BKM@pdfmark@out
1388   BKM@PSHeaderFileBKM@filename
1389 }

```

(End of definition for BKM@PSHeaderFile and BKM@filename.)

```

1390 </dvips>

```

3.5.2 Common part

```

1391 <*pdfmark>

```

BKM@pdfmark@out

Do not use package rerunfilecheck here, because the file BKM@filename is not read during the T_EX run.

```

1392 \defBKM@pdfmark@out{%
1393   \if@filesw
1394     \newwriteBKM@file
1395     \immediate\openoutBKM@file=BKM@filename\relax
1396     \BKM@write{\@percentchar!}%
1397     \BKM@write{/pdfmark where{pop}}}%
1398     \BKM@write{%
1399       {%
1400         /globaldict where{pop globaldict}{userdict}ifelse%

```

```

1401         /pdfmark/cleartomark load put%
1402     }%
1403 }%
1404 \BKM@write{ifelse}%
1405 \else
1406     \let\BKM@write\@gobble
1407     \let\BKM@D0@entry\@gobbletwo
1408 \fi
1409 }

```

(End of definition for \BKM@pdfmark@out.)

\BKM@write

```

1410 \def\BKM@write#{%
1411     \immediate\write\BKM@file
1412 }

```

(End of definition for \BKM@write.)

\BKM@D0@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 be /C.

```

1413 \def\BKM@D0@entry#1#2{%
1414     \begingroup
1415     \SetKeys[BKM@D0]{#1}%
1416     \ifx\BKM@D0@srcfile\@empty
1417     \else
1418         \BKM@UnescapeHex\BKM@D0@srcfile
1419     \fi
1420     \def\BKM@D0@title{#2}%
1421     \BKM@UnescapeHex\BKM@D0@title
1422     \expandafter\expandafter\expandafter\BKM@getx
1423         \csname BKM@\BKM@D0@id\endcsname\@empty\@empty
1424     \let\BKM@attr\@empty
1425     \ifx\BKM@D0@flags\@empty
1426     \else
1427         \edef\BKM@attr{\BKM@attr/F \BKM@D0@flags}%
1428     \fi
1429     \ifx\BKM@D0@color\@empty
1430     \else
1431         \edef\BKM@attr{\BKM@attr/C[\BKM@D0@color]}%
1432     \fi
1433     \let\BKM@action\@empty
1434     \ifx\BKM@D0@goto\@empty
1435     \ifx\BKM@D0@dest\@empty
1436         \ifx\BKM@D0@named\@empty
1437         \ifx\BKM@D0@rawaction\@empty
1438         \ifx\BKM@D0@uri\@empty
1439         \ifx\BKM@D0@page\@empty
1440             \PackageError{bookmark}{%
1441                 Missing action\BKM@SourceLocation
1442             }\@ehc
1443         \edef\BKM@action{%
1444             /Action/GoTo%
1445             /Page 1%
1446             /View[/Fit]%

```

```

1447        }%
1448     \else
1449         \ifx\BKM@D0@view\@empty
1450             \def\BKM@D0@view{Fit}%
1451         \fi
1452         \edef\BKM@action{%
1453             /Action/GoTo%
1454             /Page \BKM@D0@page
1455             /View[/\BKM@D0@view]%
1456         }%
1457     \fi
1458 \else
1459     \BKM@UnescapeHex\BKM@D0@uri
1460     \BKM@EscapeString\BKM@D0@uri
1461     \edef\BKM@action{%
1462         /Action<<%
1463         /Subtype/URI%
1464         /URI(\BKM@D0@uri)%
1465     >>%
1466     }%
1467 \fi
1468 \else
1469     \BKM@UnescapeHex\BKM@D0@rawaction
1470     \edef\BKM@action{%
1471         /Action<<%
1472         \BKM@D0@rawaction
1473     >>%
1474     }%
1475 \fi
1476 \else
1477     \BKM@EscapeName\BKM@D0@named
1478     \edef\BKM@action{%
1479         /Action<<%
1480         /Subtype/Named%
1481         /N/\BKM@D0@named
1482     >>%
1483     }%
1484 \fi
1485 \else
1486     \BKM@UnescapeHex\BKM@D0@dest
1487     \BKM@EscapeString\BKM@D0@dest
1488     \edef\BKM@action{%
1489         /Action/GoTo%
1490         /Dest(\BKM@D0@dest)cvn%
1491     }%
1492 \fi
1493 \else
1494     \ifx\BKM@D0@dest\@empty
1495         \ifx\BKM@D0@page\@empty
1496             \def\BKM@D0@page{1}%
1497         \fi
1498         \ifx\BKM@D0@view\@empty
1499             \def\BKM@D0@view{Fit}%
1500         \fi

```

```

1501     \edef\BKM@action{%
1502         /Page \BKM@DO@page
1503         /View[/\BKM@DO@view]%
1504     }%
1505     \else
1506         \BKM@UnescapeHex\BKM@DO@dest
1507         \BKM@EscapeString\BKM@DO@dest
1508         \edef\BKM@action{%
1509             /Dest(\BKM@DO@dest)cvn%
1510         }%
1511     \fi
1512     \BKM@UnescapeHex\BKM@DO@gotor
1513     \BKM@EscapeString\BKM@DO@gotor
1514     \edef\BKM@action{%
1515         /Action/GoToR%
1516         /File(\BKM@DO@gotor)%
1517     \BKM@action
1518     }%
1519     \fi
1520     \BKM@write{[]}%
1521     \BKM@write{/Title(\BKM@DO@title)}%
1522     \ifnum\BKM@x@chlds>\z@
1523         \BKM@write{/Count \ifBKM@DO@open\else-\fi\BKM@x@chlds}%
1524     \fi
1525     \ifx\BKM@attr\@empty
1526     \else
1527         \BKM@write{\BKM@attr}%
1528     \fi
1529     \BKM@write{\BKM@action}%
1530     \BKM@write{/OUT pdfmark}%
1531 \endgroup
1532 }

```

(End of definition for \BKM@DO@entry.)

```

1533 </pdfmark>

```

3.6 Common part for pdftex and pdfmark

```

1534 <*pdftex | luatex | pdfmark>

```

3.6.1 Write auxiliary file

```

1535 \AddToHook{begindocument}{%
1536     \immediate\write\@mainaux{\string\providecommand\string\BKM@entry[2]{}}

```

\BKM@id

```

1537 \newcount\BKM@id
1538 \BKM@id=\z@

```

(End of definition for \BKM@id.)

\BKM@O

```

1539 \@namedef{BKM@O}{000}

```

(End of definition for \BKM@0.)

\ifBKM@sw

1540 \newif\ifBKM@sw

(End of definition for \ifBKM@sw.)

\bookmark

```
1541 \newcommand*{\bookmark}[2] [] {%
1542   \if@filesw
1543     \begingroup
1544       \BKM@InitSourceLocation
1545       \def\bookmark@text{#2}%
1546       \BKM@setup{#1}%
1547       \ifx\BKM@srcfile\@empty
1548       \else
1549         \BKM@EscapeHex\BKM@srcfile
1550       \fi
1551       \edef\BKM@prev{\the\BKM@id}%
1552       \global\advance\BKM@id\@ne
1553       \BKM@swtrue
1554       \@whiles\ifBKM@sw\fi{%
1555         \ifnum\ifBKM@startatroot\z@\else\BKM@prev\fi=\z@
1556           \BKM@startatrootfalse
1557           \expandafter\xdef\csname BKM@\the\BKM@id\endcsname{%
1558             O{\BKM@level}0%
1559           }%
1560           \BKM@swfalse
1561         \else
1562           \expandafter\expandafter\expandafter\BKM@getx
1563             \csname BKM@\BKM@prev\endcsname
1564           \ifnum\BKM@level>\BKM@x@level\relax
1565             \expandafter\xdef\csname BKM@\the\BKM@id\endcsname{%
1566               {\BKM@prev}{\BKM@level}0%
1567             }%
1568             \ifnum\BKM@prev>\z@
1569               \BKM@CalcExpr\BKM@CalcResult\BKM@x@childs+1%
1570               \expandafter\xdef\csname BKM@\BKM@prev\endcsname{%
1571                 {\BKM@x@parent}{\BKM@x@level}{\BKM@CalcResult}%
1572               }%
1573             \fi
1574             \BKM@swfalse
1575           \else
1576             \let\BKM@prev\BKM@x@parent
1577           \fi
1578         \fi
1579       }%
1580       \pdfstringdef\BKM@title{\bookmark@text}%
1581       \edef\BKM@FLAGS{\BKM@PrintStyle}%
1582       \csname BKM@HypDestOptHook\endcsname
1583       \BKM@EscapeHex\BKM@dest
1584       \BKM@EscapeHex\BKM@uri
1585       \BKM@EscapeHex\BKM@goto
1586       \BKM@EscapeHex\BKM@rawaction
```



```

1587 \BKM@EscapeHex\BKM@title
1588 \immediate\write\@mainaux{%
1589 \string\BKM@entry{%
1590 id=\number\BKM@id
1591 \ifBKM@open
1592 \ifnum\BKM@level<\BKM@openlevel
1593 ,open%
1594 \fi
1595 \fi
1596 \BKM@auxentry{dest}%
1597 \BKM@auxentry{named}%
1598 \BKM@auxentry{uri}%
1599 \BKM@auxentry{goto}%
1600 \BKM@auxentry{page}%
1601 \BKM@auxentry{view}%
1602 \BKM@auxentry{rawaction}%
1603 \BKM@auxentry{color}%
1604 \ifnum\BKM@FLAGS>\z@
1605 ,flags=\BKM@FLAGS
1606 \fi
1607 \BKM@auxentry{srcline}%
1608 \BKM@auxentry{srcfile}%
1609 }{\BKM@title}%
1610 }%
1611 \endgroup
1612 \fi
1613 }

```

(End of definition for \bookmark. This function is documented on page 4.)

\BKM@getx

```

1614 \def\BKM@getx#1#2#3{%
1615 \def\BKM@x@parent{#1}%
1616 \def\BKM@x@level{#2}%
1617 \def\BKM@x@childs{#3}%
1618 }

```

(End of definition for \BKM@getx.)

\BKM@auxentry

```

1619 \def\BKM@auxentry#1{%
1620 \expandafter\ifx\csname BKM@#1\endcsname\@empty
1621 \else
1622 ,#1={\csname BKM@#1\endcsname}%
1623 \fi
1624 }

```

(End of definition for \BKM@auxentry.)

\BKM@InitSourceLocation

```

1625 \def\BKM@InitSourceLocation{%
1626 \edef\BKM@srcline{\the\inputlineno}%
1627 \BKM@LuaTeX@InitFile
1628 \ifx\BKM@srcfile\@empty
1629 \ifundefined{currfilepath}{\{}%

```

```

1630     \edef\BKM@srcfile{\currfilepath}%
1631   }%
1632   \fi
1633 }

```

(End of definition for \BKM@InitSourceLocation.)

\BKM@LuaTeX@InitFile

```

1634 <luatex> \def\BKM@LuaTeX@InitFile{%
1635 <luatex>   \begingroup
1636 <luatex>     \toks@={}%
1637 <luatex>   \edef\x{\endgroup
1638 <luatex>     \def\noexpand\BKM@srcfile{%
1639 <luatex>       \the\expandafter\toks@
1640 <luatex>     \directlua{%
1641 <luatex>       if status and status.filename then %
1642 <luatex>         tex.settoks('toks@', status.filename)%
1643 <luatex>       end%
1644 <luatex>     }%
1645 <luatex>   }%
1646 <luatex> } \x
1647 <luatex> }%
1648 <pdfTeX | pdfmark> \let\BKM@LuaTeX@InitFile\relax
1649

```

(End of definition for \BKM@LuaTeX@InitFile.)

3.6.2 Read auxiliary data

```

1650 \DeclareKeys[BKM@DO]
1651 {
1652   ,id .tl_set:N=\BKM@DO@id
1653   ,id .initial:n = 0
1654   ,open .legacy_if_set:n = BKM@DO@open
1655   ,flags.tl_set:N=\BKM@DO@flags
1656   ,color.tl_set:N=\BKM@DO@color
1657   ,dest .tl_set:N=\BKM@DO@dest
1658   ,named.tl_set:N=\BKM@DO@named
1659   ,uri .tl_set:N=\BKM@DO@uri
1660   ,gotor.tl_set:N=\BKM@DO@gotor
1661   ,page .tl_set:N=\BKM@DO@page
1662   ,view .tl_set:N=\BKM@DO@view
1663   ,rawaction.tl_set:N=\BKM@DO@rawaction
1664   ,srcline.tl_set:N=\BKM@DO@srcline
1665   ,srcfile.tl_set:N=\BKM@DO@srcfile
1666 }

1667 \AtBeginDocument{%
1668   \let\BKM@entry\BKM@DO@entry
1669 }

1670 </pdfTeX | luatex | pdfmark>

```

3.7 Option `atend`

3.7.1 Hook

```
1671 <*package>

1672 \ifBKM@atend
1673 \else
```

\BookmarkAtEnd This is a dummy definition that generates a warning if option `atend` has not been given.

```
1674 \newcommand{\BookmarkAtEnd}[1]{%
1675   \PackageWarning{bookmark}{%
1676     Ignored, because option `atend' is missing%
1677   }%
1678 }
```

(End of definition for \BookmarkAtEnd. This function is documented on page 8.)

```
1679 \expandafter\endinput
1680 \fi
```

\BookmarkAtEnd

```
1681 \newcommand*{\BookmarkAtEnd}{%
1682   \g@addto@macro\BKM@EndHook
1683 }
```

(End of definition for \BookmarkAtEnd. This function is documented on page 8.)

```
1684 \let\BKM@EndHook\@empty
```

```
1685 </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.

```
1686 <*pdfTeX | luatex>
1687 \ifBKM@atend
1688   \AddToHook{enddocument/afterlastpage}{%
1689     \BKM@EndHook
1690   }%
1691 \fi
1692 </pdfTeX | luatex>
```

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 the last shipout page too to avoid conflicts with `pgf`.

```

1693 <*dvipdfmx | xetex | vtex | pdfmark>
1694 \ifBKM@atend
1695   \AddToHook{shipout/lastpage}{\BKM@EndHook}%
1696 \fi
1697 </dvipdfmx | xetex | vtex | pdfmark>

```

4 Installation

4.1 Download

Package. This package is available on CTAN¹:

[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):

<code>bookmark.sty</code>	→ <code>tex/latex/bookmark/bookmark.sty</code>
<code>bkm-dvipdfmx.def</code>	→ <code>tex/latex/bookmark/bkm-dvipdfmx.def</code>
<code>bkm-dvips.def</code>	→ <code>tex/latex/bookmark/bkm-dvips.def</code>
<code>bkm-pdftex.def</code>	→ <code>tex/latex/bookmark/bkm-pdftex.def</code>
<code>bkm-luatex.def</code>	→ <code>tex/latex/bookmark/bkm-luatex.def</code>
<code>bkm-xetex.def</code>	→ <code>tex/latex/bookmark/bkm-xetex.def</code>
<code>bkm-vtex.def</code>	→ <code>tex/latex/bookmark/bkm-vtex.def</code>
<code>bookmark.pdf</code>	→ <code>doc/latex/bookmark/bookmark.pdf</code>
<code>bookmark-example.tex</code>	→ <code>doc/latex/bookmark/bookmark-example.tex</code>
<code>bookmark.dtx</code>	→ <code>source/latex/bookmark/bookmark.dtx</code>

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 TeX distribution (TeX Live, MiKTeX, ...) relies on file name databases, you must refresh these. For example, TeX Live users run `texhash` or `mktexlsr`.

¹ [CTAN:pkg/bookmark](#)

Generating the documentation. You can use the `.dtx` to generate the documentation. As the documentation is now tagged, lua^AT_EX should be used and a current T_EX-system is required.

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

References

- [1] Sebastian Rahtz, Heiko Oberdiek, The L^AT_EX project: *The hyperref package*; 2026-04-24 v7.01q; [CTAN:pkg/hyperref](#)
- [2] Martin Scharrer: *The currfile package*; 2024/03/14 v1.0. [CTAN:pkg/currfile](#)

5 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-pdfT_EX users.

[2007/02/21 v0.3]

- Dependency from pdfT_EX 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 \LaTeX .

[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 $\text{\XeTeX} \geq 0.9995$ 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 -TeX is not used. (Bug found by Martin Münch.)
- Fix in documentation. Also layout options work without ε -TeX.

[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`.

[2026-05-21 v1.32]

- Driver options are now obsolete. The backend is detected automatically.
- Driver files have been renamed to follow the LaTeX kernel.
- The package uses now the LaTeX key-value system for the options to avoid option clash errors.
- The documentation is now tagged.

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