xbmks: Cross-document bookmarks

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Contents

1 Description 1
2 Drivers and options 2
3 Process the options 2
4 Requirements 2
5 Extending bookmarks to arbitrary actions 5
6 Driver dependent code 8
   6.1 The pdfmark driver 8
   6.2 Code for pdftex/luatex driver 10
   6.3 Code for xetex driver 12

1 \% Begin package
2 \langle*package\rangle
3 \texttt{\Package{\texttt{xkeyval}}}
4 \texttt{\Package{\texttt{ifpdf}}}[2006/02/20]
5 \texttt{\Package{\texttt{ifxetex}}}[2006/08/21]

1 Description

More than a couple decades ago (counting back from 2018), I wrote two mathematics tutorials: \textit{eCalculus} and \textit{Algebra Review in Ten Lessons}. The tutorials consisted of a number of lessons, each in a separate PDF. The bookmarks of each lesson contained the table of contents for the whole tutorial. A student, in theory, could then jump from one lesson to another by selecting an entry of interest from the bookmarks. In the intervening years I have not seen a \LaTeX{} package for merging the table of contents of a set of PDFs and merge them in this each member of the set. This package attempts to do just that.

1
2 Drivers and options

We support the drivers \texttt{dvips} (and \texttt{dvipsone}), \texttt{pdflatex}, \texttt{lualatex}, and \texttt{xelatex}; these options are then named \texttt{dvipsone}, \texttt{dvips}, \texttt{pdftex}, \texttt{luatex}, and \texttt{xetex}.

\begin{verbatim}
def\xbmk\@driver{xbmks-pdfmark.def}
\DeclareOptionX{dvipsone}{\def\xbmk\@driver{xbmks-pdfmark.def}}
\DeclareOptionX{dvips}{\def\xbmk\@driver{xbmks-pdfmark.def}}
\DeclareOptionX{pdftex}{\def\xbmk\@driver{xbmks-pdfmark.def}}
\DeclareOptionX{luatex}{\def\xbmk\@driver{xbmks-pdfmark.def}}
\DeclareOptionX{xetex}{\def\xbmk\@driver{xbmks-xetex.def}}
\end{verbatim}

3 Process the options

\begin{verbatim}
\ifpdf\ExecuteOptionsX{pdftex}\else\fi\let\ExecuteOptions@SAVE\ExecuteOptions\let\ExecuteOptions\ExecuteOptionsX\InputIfFileExists{web.cfg}{}
{\@ifundefined{l@tex@@@@driver}{\ExecuteOptionsX{dvips}}{\ExecuteOptionsX{dvipsone}}}\let\ExecuteOptions\ExecuteOptions@SAVE
\fi\fi\ProcessOptionsX
\end{verbatim}

4 Requirements

The minimal requirement is \texttt{hyperref} and its built-in bookmark system. It is important to note that the \texttt{bookmark} package is not supported.

\begin{verbatim}
\RequirePackage{hyperref}
\xbmksetup
\end{verbatim}

Set the cross-document options:

\begin{verbatim}
\xbmksetup{
  docbundle=\{\langle doc_1 \rangle, \langle doc_2 \rangle, \ldots, \langle doc_n \rangle \},
  colors=\{int=\langle color \rangle, ext=\langle color \rangle \},
  styles=\{intbf, extbf, intit, extit \}
}
\end{verbatim}

This command must appear in one and only one of the document bundle, perhaps one of the documents you are calling the ‘main file’. It writes the key-values to the file \texttt{xbmks.cfg} which is then read back in by the other members of the document bundle, as specified by the \texttt{dobundle} key. The base names of the document bundle must match the name given to it by \texttt{\jobname}, exact spelling, case sensitive.
Key-values for `\xbmksetup`. The keys belonging to the `xbmksetup` family: `docbundle`, `colors`, and `styles`.

```latex
\define@key{xbmksetup}{docbundle}
\{\def\x@bmks@docs{\#1}\}
\let\x@bmks@docs\@empty
\define@key{xbmksetup}{colors}
\{\def\x@bmks@colors{\#1}\}
\let\x@bmks@colors\@empty
\define@key{xbmksetup}{styles}
\{\def\x@bmks@styles{\#1}\}
\let\x@bmks@styles\@empty
```

Values for the key `colors`. The value recognized are

```
colors={int=(color), ext=(color)}
```

If the value of `int` or `ext` is empty, then the PDF viewer’s default colors are using (black).

```latex
\define@key{xbmk@colors}{int}
\{\HyColor@BookmarkColor{\#1}{\x@bmks@intC}{xbmks}{int}\}
\ifx\x@bmks@intC\@empty\else
  \edef\x@bmks@intC{/C[\x@bmks@intC]}\fi
\let\x@bmks@intC\@empty
\define@key{xbmk@colors}{ext}
\{\HyColor@BookmarkColor{\#1}{\x@bmks@extC}{xbmks}{ext}\}
\ifx\x@bmks@extC\@empty\else
  \edef\x@bmks@extC{/C[\x@bmks@extC]}\fi
\let\x@bmks@extC\@empty
```

Values for the key `styles`. The value recognized are

```
styles={intbf, intit, extbf, extit}
```

These are valueless keys (Boolean keys, actually). `intbf` means the interior document bookmarks are set in bold while `intbf, intit` creates bold and italic font.

```latex
\define@boolkey{xbmk@styles}{intbf}
\{true\}
\define@boolkey{xbmk@styles}{extbf}
\{true\}
\define@boolkey{xbmk@styles}{intit}
\{true\}
\define@boolkey{xbmk@styles}{extit}
\{true\}
```

We evaluate the values of `\xbmksetup` by getting the values of the `xbmksetup` family.

```latex
\newcommand{\xbmksetup}[1]{\setkeys{xbmksetup}{docbundle, #1}}
```

If there is no `docbundle` is specified, we use `\jobname` as its value.

```latex
\PackageInfo{xbmks}{The docbundle key of \string\xbmksetup\space}
\ifx\x@bmks@docs\@empty
  I will give it a value of `\jobname', \MessageBreak
```

3
We write the key-values of $\texttt{xbmksetup}$ to the hard drive in the file $\texttt{xbmks.cfg}$, this is $\texttt{xbmksetupi}\{\langle KVPairs \rangle\}$. $\texttt{xbmksetupi}$ is defined below, it is the command that actually does the heavy lifting in processing the key-values.

$\texttt{xbmksetupi}$ is an internal command that sets the key-values across all files in the docbundle.

$\texttt{\@docbundle}$ is a comma-delimited list of document base names:

$\texttt{$\backslash @docbundle\{(doc_1),(doc_2),\ldots,(doc_n)\}$}$

This command is called internally by $\texttt{xbmksetupi}$.
Because we are bringing in multiple outline files, there may be duplicate anchor
names. We assign each file in the document bundle a unique ID ‘x1\(\text{\textlangle anchor\rangle}\),
‘x2\(\text{\textlangle anchor\rangle}\), etc. The IDs are ultimately assigned through \texttt{pdfbookmarkx}.

\newcommand{\xbmk@docID}[1]{%  
\xbmkcsarg{x\texttt{\jobname}}{x\texttt{\the\count0}}%}

5 Extending bookmarks to arbitrary actions

It is possible to create bookmarks with arbitrary actions, just as the \texttt{bookmark} package, does. Here we try to use hyperref’s native bookmark support. The \texttt{hyperref} commands \texttt{pdfbookmark}, \texttt{currentbookmark}, \texttt{subpdfbookmark}, and \texttt{belowpdfbookmark} are modified.

\texttt{pdfbookmarks }\left[\langle level\rangle\right]\{\langle text\rangle}\left[\langle xbmkskeys-kvp\rangle\right]\{\langle name\rangle\}

Defines a bookmark at \texttt{\langle level\rangle}. If \texttt{\langle level\rangle} is not provided, the level 1 is assumed.

We write to the outline file the action desired for this bookmark. \texttt{\currentAction} is defined below. We do not set an anchor; if the document author wants an anchor, he should use \texttt{pdfbookmark}. As with \texttt{pdfbookmark}, the \texttt{pdfbookmarks} should not normally be directly used.

\begin{itemize}
\item \textbf{action} Key-values for the ‘\ldots{\texttt{bookmarks}}’ commands. Recognized keys are \texttt{action}, \texttt{color}, and \texttt{style}. Note that these keys are singular, as opposed to \texttt{colors} and \texttt{color style} styles defined in the \texttt{xbmksetup} family. This is the \texttt{xbmkskeys} family.
\item \texttt{\define@key{xbmkskeys}{action}{...}}\%
\item \texttt{\let\x@bmks@action\@empty}
\item \texttt{\define@key{xbmkskeys}{color}{...}}\%
\item \texttt{\setkeys{xbmks@color}{...}}
\item \texttt{\ifx\x@bmks@C\@empty\else}
\item \texttt{\edef\x@bmks@C/C/\texttt{\x@bmks@C}}\fi
\item \texttt{\let\x@bmks@C\@empty}
\item \texttt{\define@key{xbmkskeys}{style}{...}}\%
\item \texttt{\edef\x\texttt{\noexpand\setkeys{xbmks@style}{...}}\texttt{\x}}
\end{itemize}
The style key takes zero, one, or two values, these are \texttt{bf} and \texttt{it}.

We finally arrive at \texttt{\pdfbookmarkx} command.

If there is no action, treat as a destination
The \texttt{action=} is raw PDF code, for example,
\begin{verbatim}
\currentpdfbookmarkx[/S/URI/URI(http://www.acrotex.net)]
{http://www.acrotex.net}{home}
\end{verbatim}

The command creates a bookmark at the current bookmark level in the outline tree and associates the specified \texttt{(action)}. The argument \texttt{(text)} appears in the bookmark panel. The \texttt{(name)} is used for identification purposes.

\begin{verbatim}
\newcommand{\currentpdfbookmarkx}[1][]{%
  @ifnextchar[{
    \currentpdfbookmarkx@i{#1}}
  {\currentpdfbookmarkx@i{#1}[]}}
\def\currentpdfbookmarkx@i#1[#2]#3{%}
  pdfbookmarkx[\Hy@currentbookmarklevel]{#1}{[#2]{#3}}
\end{verbatim}

\begin{verbatim}
\subpdfbookmarkx{\texttt{(text)}}[\{\texttt{zbmrkskeys-kup}\}]\{\texttt{(name)}\}
\end{verbatim}

Reduces the current bookmark level by one, then creates the bookmark at that level. The reduced level is the new current bookmark level.

\begin{verbatim}
\newcommand{\subpdfbookmarkx}[1][]{%
  @ifnextchar[{
    \subpdfbookmarkx@i{#1}}
  {\subpdfbookmarkx@i{#1}[]}}
\def\subpdfbookmarkx@i#1[#2]#3{%}
  @tempcnta\Hy@currentbookmarklevel
  \Hy@StepCount@tempcnta
  \expandafterpdfbookmarkx\expandafter[\the@tempcnta]{#1}{[#2]{#3}}%
  \advance@tempcnta by -1%
  \xdef\Hy@currentbookmarklevel{\the@tempcnta}
\end{verbatim}

\begin{verbatim}
\belowpdfbookmarkx{\texttt{(text)}}[\{\texttt{zbmrkskeys-kup}\}]\{\texttt{(name)}\}
\end{verbatim}

Creates a bookmark at one level below the current bookmark level without changing the value of the current bookmark level.

\begin{verbatim}
\newcommand{\belowpdfbookmarkx}[1][]{%
  @ifnextchar[{
    \belowpdfbookmarkx@i{#1}}
  {\belowpdfbookmarkx@i{#1}[]}}
\def\belowpdfbookmarkx@i#1[#2]#3{%}
  @tempcnta\Hy@currentbookmarklevel
  \Hy@StepCount\tempcnta
  \expandafterpdfbookmarkx\expandafter[\the@tempcnta]{#1}{[#2]{#3}}%
  \advance@tempcnta by -1%
  \xdef\Hy@currentbookmarklevel{\the@tempcnta}
\end{verbatim}

\begin{verbatim}
\nextAction@i{\texttt{(anchor.level)}}[\{\texttt{zbmrkskeys-kup}\}]
\end{verbatim}

This command is used internally, the document author need not do anything. The command \texttt{\nextAction} is \texttt{let} to \texttt{\nextAction@i} just prior to when the outline file is input; and is \texttt{let} to \texttt{@gobbletwo}, otherwise.

\begin{verbatim}
\def\nextAction@i#1#2{%}
\end{verbatim}
6 Driver dependent code

6.1 The pdfmark driver

We redefine/modify the \ReadBookmarks command of hyperref, this definition is driver dependent.

\def\ReadBookmarks{%
\pdf@ifdraftmode{}{%
\begin{group}
def\{\backslash\backslash\backslash\backslash\backslash\}
dps
\def\calc@bm@number##1{%\@tempcnta=\check@bm@number{##1}\relax
\advance\@tempcnta by 1%
\expandafter\edef\csname B_##1\endcsname{\the\@tempcnta}%
}
\def\do##1{%\ifnum\catcode'##1=\active
\@makeother##1%
\else
\ifnum\catcode'##1=6%
\@makeother##1%
\fi
\fi
\dospecials
\Hy@safe@activestrue
\escapechar='\%
\ifx\WriteBookmarks\relax
\global\let\WriteBookmarks\relax
\fi
\begingroup
\def\WriteBookmarks{0}%
\end{group}
\count\z@=0\relax
\edef\xbmk@J\jobname
@whilenum \count\z@<\xbmk@cnt\relax\do{
\advance\count\z@ by 1
\edef\xbmk@thisdoc{xbmk@doc\the\count\z@}
\edef\xbmk@filename{@nameuse{\xbmk@thisdoc}}
@onelevel@sanitize\xbmk@filename
\bgroup
\def\@@BOOKMARK[##1][##2]##3##4##5{%\allowbreak
\calc@bm@number{##5}%
}\let\nextAction\@gobbletwo
\InputIfFileExists{\xbmk@filename.out}{}{\x@outWarningMsg}%
\def\@@BOOKMARK[##1][##2]##3##4##5{%\allowbreak
\def\Hy@temp{##4}\If 'X\_##3' is undefined (\relax), it is a normal bookmark.
\xbmkcsarg\ifx{X\_##3}\relax
\ifx\xbmk@J\xbmk@filename
\pdfmark{\allowbreak
pdfmark=/OUT,\%\allowbreak
Count={##2\check@bm@number{##3}},\%\allowbreak
Raw={\xbmk@intC\xbmk@intF},\%\allowbreak
Dest={##3},\%
Title=\expandafter\strip@prefix\meaning\Hy@temp\%\allowbreak
}\else\allowbreak
\pdfmark{\allowbreak
pdfmark=/OUT,\%\allowbreak
Count={##2\check@bm@number{##3}},\%\allowbreak
Raw={/Action<<\@nameuse{X\_##3}>>\thisCol\thisF},\%\allowbreak
Action=/GoToR,\%
File={\xbmk@filename.pdf},\%\allowbreak
Dest={##3},\%
Title=\expandafter\strip@prefix\meaning\Hy@temp\%\allowbreak
}\fi\allowbreak
\else\allowbreak
\pdfmark{\allowbreak
pdfmark=/OUT,\%\allowbreak
Count={##2\check@bm@number{##3}},\%\allowbreak
Raw={\xbmk@extC\xbmk@extF},\%\allowbreak
Action=/GoToR,\%
File={\xbmk@filename.pdf},\%\allowbreak
Dest={##3},\%
Title=\expandafter\strip@prefix\meaning\Hy@temp\%\allowbreak
}\else\allowbreak
\pdfmark{%\allowbreak
pdfmark=/OUT,\%\allowbreak
Count={##2\check@bm@number{##3}},\%\allowbreak
Raw={/Action<<\@nameuse{X\_##3}>>\thisCol\thisF},\%\allowbreak
Title=\expandafter\strip@prefix\meaning\Hy@temp\%\allowbreak
}\fi\allowbreak
\else\allowbreak
The anchor has an 'X\_' definition, it is a bookmark created from one of the 'bookmarkx' commands. We treat this as a separate case.
\x@rollCFIntoActionBmrk{##3}\%\allowbreak
\pdfmark{%\allowbreak
pdfmark=/OUT,\%\allowbreak
Count={##2\check@bm@number{##3}},\%\allowbreak
Raw={/Action<<\@nameuse{X\_##3}>>\thisCol\thisF},\%\allowbreak
Title=\expandafter\strip@prefix\meaning\Hy@temp\%\allowbreak
}\fi\allowbreak
\fi\allowbreak
\}%, bookmark
\let\nextAction\nextAction@i
6.2 Code for pdftex/luatex driver

We redefine/modify the \ReadBookmarks command of hyperref, this definition is driver dependent.

\pdfmark{\begin{verbatim}
def\ReadBookmarks{% 
\pdf@ifdraftmode{% 
\begingroup\def\\{\@backslashchar\@backslashchar}\relax 
\def\calc@bm@number##1{% 
\@tempcnta=\check@bm@number{##1}\relax 
\advance\@tempcnta by 1 
\expandafter\edef\csname B_##1\endcsname{\the\@tempcnta}% 
} 
\def\Hy@OutlineName##1##2##3##4{% 
\@rgi{##1} 
\expandafter\pdfoutline\ifx\@rgi\@empty\else 
attr {##1} 
user {##2} count##3{##4} 
\fi 
\fi 
\fi 
\fi 
\expandafter\do##1{% 
\ifnum\catcode'##1=6 
\@makeother##1% 
\else 
\fi 
\fi 
\expandafter\dospecials 
\Hy@safe@activestrue 
\end{verbatim}}\endgroup 
\if\writeBookmarks\relax\else 
\if@filesw 
\newwrite\@outlinefile 
\Hy@OutlineRerunCheck 
\immediate\openout\@outlinefile=jobname.out\relax 
\ifHy@typexml 
\immediate\write\@outlinefile{<relaxxml>\relax}% 
\fi 
\fi 
\fi 
\fi 
\fi 
\fi 
\fi }{
\escapechar='\%\n\ifx\WriteBookmarks\relax
\global\let\WriteBookmarks\relax\n\fi\n\begingroup\ndef\WriteBookmarks{0}\n\count\z@=0\relax\nedef\xbmk@J{\jobname}\n@whilenum \count\z@<\xbmk@cnt\relax\do{\n \advance\count\z@ by 1 \n \edef\xbmk@thisdoc{xbmk@doc\the\count\z@}\n \edef\xbmk@filename{\@nameuse{\xbmk@thisdoc}}\n \@onelevel\@sanitize\xbmk@filename
 \bgroup\ndef\@BOOKMARK[#1][#2][#3][#4][#5]{\n \calc@bm@number{#5}\n \let\nextAction\@gobbletwo\n \InputIfFileExists{\xbmk@filename.out}{}{\x@outWarningMsg}\n \gdef\@BOOKMARK[#1][#2][#3][#4][#5]{\n \def\Hy@temp{#4}\n \Hy@pstringdef\Hy@pstringName{\HyperDestNameFilter{#3}}\n \xbmkcsarg\ifx{X}_{#3}\relax
 Ordinary bookmark\n \Hy@OutlineName{\xbmks@intC\xbmks@intF}{<</S/GoTo%/\n /D(\Hy@pstringName)>>}{%\n \check@bm@number{\Hy@pstringName}\n }{%\n \expandafter\strip@prefix\meaning\Hy@temp\n }\n \else\n \Hy@OutlineName{\xbmks@extC\xbmks@extF}{<</S/GoTo%/\n /F(\xbmk@filename.pdf)/D(\Hy@pstringName)>>}{%\n \check@bm@number{#3}\n }{%\n \expandafter\strip@prefix\meaning\Hy@temp\n }\n \fi\n \else\n Bookmark created by one of the ‘...bookmarkx commands\n \x@rollCFIntoActionBmrk[#3]\n \Hy@OutlineName{thisCol\thisF}{%\n \check@bm@number{\Hy@pstringName}\n }{%\n \expandafter\strip@prefix\meaning\Hy@temp\n }\n \fi\n\nOrdinary bookmark
\ifx\xbmk@J\xbmk@filename
 \Hy@OutlineName{\xbmks@intC\xbmks@intF}{<</S/GoTo%/\n /D(\Hy@pstringName)>>}{%\n \check@bm@number{\Hy@pstringName}\n }{%\n \expandafter\strip@prefix\meaning\Hy@temp\n }\n \else\n \Hy@OutlineName{\xbmks@extC\xbmks@extF}{<</S/GoTo%/\n /F(\xbmk@filename.pdf)/D(\Hy@pstringName)>>}{%\n \check@bm@number{#3}\n }{%\n \expandafter\strip@prefix\meaning\Hy@temp\n }\n \fi
6.3 Code for xetex driver

We redefine/modify the \ReadBookmarks command of hyperref, this definition is
driver dependent.
\def\ReadBookmarks{%
 pdf@ifdraftmode{%
 \begingroup\def\backslashchar\backslashchar\% dps
 \def\calc@bm@number##1{%
 \@tempcnta=\check@bm@number{##1}\relax
 \advance\@tempcnta by 1%
 \expandafter\edef\csname B_##1\endcsname{\the\@tempcnta}%
 }%
 \def\do##1{%
 \ifnum\catcode'##1=\active
 \@makeother##1
 \else
 \ifnum\catcode'##1=6 
 \@makeother##1
 \fi
 \fi
 \fi
 %}
 \dospecs
 \Hy@safe@activestrue
 \escapechar='\%
 \ife\WriteBookmarks\relax
 \global\let\WriteBookmarks\relax
 \fi
\begingroup
\def\WriteBookmarks{0}\relax
\edef\xbmk@J{\jobname}\relax
@whilenum \count\z@<\xbmk@cnt\relax\do{
\advance\count\z@ by 1 \relax
\edef\xbmk@thisdoc{xbmk@doc\the\count\z@}\relax
\edef\xbmk@filename{\@nameuse{\xbmk@thisdoc}}\relax
@onelevel@sanitize\xbmk@filename
@group
\def\@OB@O\BOOKMARK[##1][##2][##3][##4][##5]{
\calc@bm@number{##5}\relax
\let\nextAction\@gobbletwo\relax
\InputIfFileExists{\xbmk@filename.out}{}{}\relax
\let\nextAction\nextAction@i\relax
\InputIfFileExists{\xbmk@filename.out}{}{}\relax
}
\let\thisC\@empty\let\thisF\@empty
\let\nextAction\nextAction@i\relax
\InputIfFileExists{\xbmk@filename.out}{}{}\relax
\\egroup

Ordinary bookmark
\ifs\xbmk@J\xbmk@filename
/A<<%\relax
/S/GoTo%
/D(\Hy@pstringName)%
>>%\relax
\else
/A<<%\relax
/S/GoToR/F(\xbmk@filename.pdf)%
/D(\Hy@pstringName)%
>>%\relax
\fi
\else
/thisCol\thisF
>>%\relax
@pdfm@mark
\let\thisC\@empty\let\thisF\@empty
@\relax
\fi
\else

Bookmark created by one of the \...bookmarkx commands
/A<<@nameuse(X_#3)>>\relax
\fi
\fi
\let\nextAction\nextAction@i\relax
\InputIfFileExists{\xbmk@filename.out}{}{}\relax
\\egroup

13
\ifx\WriteBookmarks\relax
\else
\if@filesw
\newwrite\@outlinefile
\Hy@OutlineRerunCheck
\immediate\openout\@outlinefile=\jobname.out
\ifHy@typexml
\immediate\write\@outlinefile{<relaxxml>\relax}%
\fi
\fi
\fi
\fi}
\InputIfFileExists{xbmks.cfg}{}{}\PackageWarningNoLine{xbmks}{The bookmark package is not supported; this package does nothing, as a result}}\InputIfFileExists{\xbmk@driver}{}{}\PackageWarningNoLine{xbmks}{The bookmark package is not supported; this package does nothing, as a result}}
\InputIfFileExists{\xbmk@driver}{}{}\PackageWarningNoLine{xbmks}{The bookmark package is not supported; this package does nothing, as a result}}
\InputIfFileExists{\xbmk@driver}{}{}\PackageWarningNoLine{xbmks}{The bookmark package is not supported; this package does nothing, as a result}}
7 Index

Numbers written in italic refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in roman refer to the code lines where the entry is used.

Symbols
\@@BOOKMARK .................. 233, 238, 329, 334, 416, 421
\@arg ........................................... 93, 95, 96
\@backslashchar .................... 202, 292, 385
\@makeother ................. 210, 213, 306, 309, 393, 396
\@onelevel@sanitize ......... 231, 327, 414
\@outlinefile .......................... 153, 279, 281, 283, 372, 374, 376, 460, 462, 464
\@pdfm@mark ......................... 425, 447
\@rgi ........................................ 298, 299
\@tmpexp ..................... 93, 94
\egroup .......................... 91, 232, 328, 415
\belowpdfbookmarkx .............. 174
\belowpdfbookmarkx@i .......... 176–178
\calc@bm@number .... 203, 234, 293, 330, 386, 417
\check@bm@number .... 204, 244, 252, 264, 294, 341, 348, 357, 387
\color (key) .................. 5
\colors (option) ....................... 3
\currentpdfbookmarkx .......... 159
\currentpdfbookmarkx@i .......... 161–163
\DeclareOptionX ................. 7–11
\define@boolkey ................ 42–45, 126, 127
\docbundle (option) ............. 3
\dospecials ..................... 217, 313, 400
\egroup .......................... 98, 272, 365, 452
\escapechar .................. 219, 315, 402
\ExecuteOptions ............ 14, 15, 19
\ExecuteOptions@SAVE ......... 14, 19
\ExecuteOptionsX .......... 12, 13, 15, 17, 18
\Hy@currentbookmarklevel .... 164, 170, 179, 184
\Hy@OutlineName ........... 298, 339, 346, 355
\Hy@OutlineRerunCheck .......... 280, 373, 461
\Hy@pstringdef .................. 336, 340, 341, 347, 357, 423, 434, 439
\Hy@pstringName ................. 218, 314, 401
\Hy@SafeActiveTrue ............. 218, 314, 401
\Hy@StepCount ..................... 171, 180
\Hy@temp 239, 247, 257, 266, 335, 343, 350, 359, 422, 429
\Hy@Writebookmark ............. 150, 156
\HyColor@BookmarkColor .......... 30, 36, 108
\Hyper@anchorend ............. 151
\Hyper@anchorstart ............. 151
\HyperDestNameFilter .......... 336, 423
\if@filesw ..................... 278, 371, 459
\ifHy@DvipdfmxOutlineOpen .......... 426
\ifHy@TypeXml 282, 375, 463
\ifKV@xbmk@styles@extbf ........ 81, 85
\ifKV@xbmk@styles@extit ........ 80
\ifKV@xbmk@styles@intbf ........ 72, 76
\ifKV@xbmk@styles@intit ........ 71
\ifKV@xbmks@style@bf .......... 117, 121
\ifKV@xbmks@style@it ........ 116
\ifpdf ................................. 12
\ifetext ......................... 13
\InputIfFileExists .......... 16, 237, 271, 333, 364, 420, 451, 471, 475
\keys:
\action ........................................ 5
\color ......................................... 5
\style ......................................... 5
\newwrite .......................... 57, 279, 372, 460
\nextAction .................. 154, 236, 270, 332, 363, 419, 450
\nextAction@i ..................... 185, 270, 363, 450
\openout ........................................ 57, 281, 374, 462
\options:
\colors ......................................... 3
\docbundle .................................... 3
\styles ......................................... 3
8 Change History

v1.1 (2018/06/13)
General: Fixed misspelling of drive command for pdfmark case .......................... 2
\xbmksetup: Allow an empty value of docbundle, its value is set to \jobname .............. 2

v2.0 (2018/06/21)
\pdfbookmarkx: Added \... bookmarkx commands ............................................ 5