


```

124 }\else
125 \ifx\fitr@driver\fitr@dviptionsone@driver
    For the dviptionsone driver
126 \def\AT@ThrBbox#1#2{%
127   currentpoint 2 copy %
128   \the\fitr@depth\space add #2\space PDFtoTeX add      % y1
129   exch #1\space PDFtoTeX sub exch                      % x1
130   4 2 roll exch
131   \the\fitr@width\space add #1\space PDFtoTeX add exch % x2
132   \the\fitr@height\space sub #2\space PDFtoTeX sub}    % y2
133 \else
134 \ifx\fitr@driver\fitr@dviptions@driver
    For the dviptions driver
135 \def\AT@ThrBbox#1#2{% Uses \fitr@bbox
136   currentpoint 2 copy %
137   \the\fitr@depth\space SPToDviptions add
138     #2\space BPToDviptions add                        % y1
139   exch #1\space BPToDviptions sub exch                % x1
140   4 2 roll exch
141   \the\fitr@width\space SPToDviptions add
142     #1\space BPToDviptions add exch                   % x2
143   \the\fitr@height \space SPToDviptions sub
144     #2\space BPToDviptions sub}                       % y2
145 \fi\fi\fi\fi

```

Code to set the thread The `\setThread` macros are driver dependent.

`\setThread{<add-wd>{<add-ht>}}` This macro strips out the dimensions of its arguments (10bp becomes 10) and passes these new arguments to `\set@rtThrd`.

```

146 \def\setThread#1#2{%
147   \fitr@defaultbp{\aWd}{#1}\fitr@defaultbp{\aHt}{#2}%
148   \edef\tmp@exp{\noexpand\set@rtThrd{\aWd}{\aHt}}\tmp@exp}
149 \if@fitr@dviptions

```

`\set@rtThrd{<add-wd>{<add-ht>}}` The definition of `\set@rtThrd` depends on the driver. The arguments are dimensionless numbers, representing Adobe points.

For the xelatex and friends

```

150 \def\set@rtThrd#1#2{\AT@ThrBbox{#1}{#2}%
151   \smash{\raisebox[-\fitr@xetex@view@height+#2bp]{%
152     {\makebox[0pt][l]{\hspace*{#1bp}}%
153     \@pdfm@mark{thread @artthrd\CntArt\space
154     width \fitr@xetex@view@width\space
155     height \fitr@xetex@view@height\space
156     depth \fitr@xetex@view@depth\space
157     << /Title (\threadTitle)
158     \ifnewarticle
159     /Author (\threadAuthor)
160     /Subject (\threadSubject)
161     /Keywords (\threadKeywords)\fi >>}}}}}\else

```

```

162 \ifpdf
    For pdftex and friends
163 \def\set@rtThrd#1#2{\AT@ThrBbox{#1}{#2}%
164 \makebox[0pt][l]{\hspace*{-#1bp}%
165 \pdfthread
166 width \fitr@pdftex@view@width\space
167 height \fitr@pdftex@view@height\space
168 depth \fitr@pdftex@view@depth\space
169 name {\threadTitle}}\else
    For drivers that use PostScript and the pdfmark.
170 \def\set@rtThrd#1#2{\literalps@out{\artM@rk
171 /Rect [\AT@ThrBbox{\artthrd@addt@w}{\artthrd@addt@h}]
172 /Title (\threadTitle)
173 \ifnewarticle
174 /Author (\threadAuthor)
175 /Subject (\threadSubject)
176 /Keywords (\threadKeywords)\fi
177 /ARTICLE pdfmark}}
178 \fi\fi

```

3.4 Some navigation commands

```
179 \let\threadTitle\@empty
```

`\Thread{<thread-title>}` The action to start read a thread whose title is `<thread-title>`.
For example, `\setLink[\A{\Thread{Lipsum}}]{Read Lipsum}`

```
180 \providecommand{\Thread}[1]{/S/Thread/D(#1)}
```

```

\shArticlesPaneActn Actions for show/hid articles pane and to just show articles pane (The named
\sArticlesPaneActn action ArticleThreads is undocumented, don't remember show I got this name.)
\shArticlesPaneReadActn In addition to these two, we combine them with read thread actions:
\sArticlesPaneReadActn 181 \def\shArticlesPaneActn{\Named{ShowHideArticles}}
182 \def\sArticlesPaneActn{\Named{ArticleThreads}}
183 \def\shArticlesPaneReadActn{\shArticlesPaneActn
184 \Next{\Thread{\threadTitle}}}
185 \def\sArticlesPaneReadActn{\sArticlesPaneActn
186 \Next{\Thread{\threadTitle}}}

```

`\readArticle{<thread-title>}` is a macro intended to be passed to a push button action through the `\cmd` key. For example,

```
\showArticlePaneRead[\cmd{\readArticle{more Lipsum}}]{11bp}
```

It should be used with `\toggleArticlePaneRead` and `\showArticlePaneRead` (push buttons). Alternatively, these actions can be done through a link:

```

\setLink[\cmd{\readArticle{Lipsum}}
\A{\shArticlesPaneReadActn}]{Lipsum}

```

```

187 \def\readArticle#1{\Hy@unicodedefalse
188 \pdfstringdef\AT@x{#1}\edef\threadTitle{\AT@x}}
189 \def\chkThreadName{%
190 \ifx\threadTitle\@empty
191 \global\let\isThrTtl\ef@NO
192 \def\readArtPresets{\cmd{\let\Next@gobble}}\else
193 \global\let\isThrTtl\ef@YES
194 \let\readArtPresets\@empty
195 \fi
196 }
197 \def\readThreadMsg{\ifx\isThrTtl\ef@NO
198 \PackageWarning{artthreads}{No thread title specified to read}\fi}

\toggleArticlePane[⟨KV-pairs⟩]{⟨wd⟩}{⟨ht⟩} A push button whose action toggles the Articles pane
open and closed.
199 \newcommand{\toggleArticlePane}[3][\stepcounter{@rtBtnCnt}]%
200 \pushButton[\CA{Article}\TU{Toggle Articles Pane}#1
201 \A{\shArticlesPaneActn}
202 ]{TAPBtn\the@rtBtnCnt}{#2}{#3}}

\toggleArticlePaneRead[⟨KV-pairs⟩]{⟨wd⟩}{⟨ht⟩} A push button whose action us to toggle the Articles
pane state (show/hide) and to begin reading the thread titled \threadTitle. If
this command is placed after the \setThreadInfo command, then \threadTitle
is the title set by the title key of \setThreadInfo.
203 \def\tooltipTogglePaneRead#1{\def\ttToggleP@neRead{#1}}
204 \tooltipTogglePaneRead{Toggle Articles pane and read
205 the article \threadTitle}
206 \newcommand{\toggleArticlePaneRead}[3][\begingroup
207 \stepcounter{@rtBtnCnt}\pushButton[\CA{Article}#1
208 \TU{\ttToggleP@neRead}\cmd{\chkThreadName}
209 \presets{\readArtPresets}\A{\shArticlesPaneReadActn}
210 ]{TAPRBtn\the@rtBtnCnt}{#2}{#3}\readThreadMsg\endgroup}

\showArticlePane[⟨KV-pairs⟩]{⟨wd⟩}{⟨ht⟩} A push button whose action is to show the Articles pane.
211 \newcommand{\showArticlePane}[3][\stepcounter{@rtBtnCnt}]%
212 \pushButton[\CA{Article}\TU{Show Articles Pane}#1
213 \A{\sArticlesPaneActn}
214 ]{SAPBtn\the@rtBtnCnt}{#2}{#3}}

\showArticlePaneRead[⟨KV-pairs⟩]{⟨wd⟩}{⟨ht⟩} A push button whose action is to show the Articles and
to begin reading the thread titled \threadTitle. If this command is placed after
the \setThreadInfo command, then \threadTitle is the title set by the title key
of \setThreadInfo.
215 \def\tooltipShowPaneRead#1{\def\ttShowP@neRead{#1}}
216 \tooltipShowPaneRead{Show Articles pane and read
217 the article \threadTitle}
218 \newcommand{\showArticlePaneRead}[3][\begingroup
219 \stepcounter{@rtBtnCnt}\pushButton[\CA{Article}#1
220 \TU{\ttShowP@neRead}\cmd{\chkThreadName}
221 \presets{\readArtPresets}\A{\sArticlesPaneReadActn}
222 ]{SAPRBtn\the@rtBtnCnt}{#2}{#3}\readThreadMsg\endgroup}

```


223 \langle /package \rangle

4 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	
<code>\@pdfm@mark</code>	153
<code>!preview</code> (option)	<i>2</i>
<code>!viewMagWin</code> (option)	<i>2</i>
A	
<code>\A</code>	201, 209, 213, 221
<code>addtoh</code> (key)	<i>3</i>
<code>addtow</code> (key)	<i>3</i>
<code>\aHt</code>	147, 148
<code>\artM@rk</code>	26, 170
<code>\artthrd@@addtoh</code>	49, 50, 70, 72, 79, 88, 90, 171
<code>\artthrd@@addtow</code>	46, 47, 70, 72, 75, 83, 171
<code>\AT@ThrBbox</code>	5, 100, 113, 126, 135, 150, 163, 171
<code>\AT@x</code>	188
<code>author</code> (key)	<i>3</i>
<code>\aWd</code>	147, 148
B	
<code>\bArtErrMsg</code>	41, 54
<code>\bArticle</code>	<i>3</i> , 42, 52
<code>\Bbox</code>	62
C	
<code>\CA</code>	200, 207, 212, 219
<code>\cArticle</code>	<i>4</i> , 57
<code>\chkThreadName</code>	189, 208, 220
<code>\cmd</code>	192, 208, 220
<code>\CntArt</code>	23, 52, 53, 153
<code>\CntArtInfo</code>	23, 36, 40, 53
<code>\CurrentOption</code>	3–9, 11, 13, 15, 17, 18
D	
<code>\DeclareOptionX</code>	3–10, 12, 14, 16, 18
<code>dvipdfm</code> (option)	<i>2</i>
<code>dvipdfmx</code> (option)	<i>2</i>
<code>dvips</code> (option)	<i>2</i>
<code>dvipsone</code> (option)	<i>2</i>
E	
<code>\ef@Bbox</code>	63
<code>\ef@NO</code>	191, 197
<code>\ef@YES</code>	193
F	
<code>\fbox</code>	93
<code>\fboxsep</code>	73
<code>\fitr@height</code>	65, 66, 81, 82, 93
<code>\fitr@l^lift</code>	69, 86
<code>\fitr@r^efPt</code>	65, 87, 89, 93
<code>\fitr@^shift</code>	68, 84
<code>\fitr@^width</code>	65, 66, 77, 78, 94
<code>\fitr@artrect@argi</code>	58
<code>\fitr@b^box</code>	71, 103, 106, 109, 116, 119, 122, 135
<code>\fitr@defaultbp</code>	46, 49, 147
<code>\fitr@depth</code>	128, 137
<code>\fitr@driver</code>	125, 134
<code>\fitr@d^vips@driver</code>	134
<code>\fitr@d^vipsone@driver</code>	125
<code>\fitr@FLB@ction</code>	62, 63, 66
<code>\fitr@height</code>	132, 143
<code>\fitr@length</code>	75–86, 88, 90, 92, 101–110, 114–123
<code>\fitr@pdf^tex@view@depth</code>	123, 168
<code>\fitr@pdf^tex@view@height</code>	120, 167
<code>\fitr@pdf^tex@view@width</code>	117, 166
<code>\fitr@setBL</code>	61, 69, 86
<code>\fitr@curxury@fixup</code>	72
<code>\fitr@width</code>	131, 141
<code>\fitr@x^etex@view@depth</code>	110, 156
<code>\fitr@x^etex@view@height</code>	107, 151, 155
<code>\fitr@x^etex@view@width</code>	104, 154
G	
<code>\get@fitr@dimen</code>	64
H	
<code>\Hy@unicod^efalse</code>	27, 187
I	
<code>\if@fitr@d^vipdfm</code>	99, 149
<code>\ifluat^ex</code>	98
<code>\ifnewarticle</code>	21, 158, 173
<code>\ifpdf</code>	112, 162
<code>\ifviewMagWin</code>	74
<code>\inc@CntMacro</code>	24, 36, 52
<code>\isThrT^tl</code>	191, 193, 197
K	
<code>\kern</code>	66, 94
keys:	
<code>addtoh</code>	<i>3</i>

5 Change History

v1.1 (2016/04/09)		v1.3 (2020/07/03)	
General: Removed the Page key and dependence on the <code>recount</code> package	7	General: Add special definition for threads in the case of <code>lualatex</code>	5
v1.2 (2016/05/02)		Added <code>\Thread</code>	5
General: Modified documentation to reflect new DC thread icons.	1	Use <code>\ifpdf</code>	5, 7
		v1.3.1 (2020/07/09)	
		General: Require <code>fitr</code> package, dated 2020/07/09	2