

The documentmetadata-support code*

Frank Mittelbach, Ulrike Fischer, L^AT_EX Project

May 19, 2025

1 Introduction

The kernel command `\DocumentMetadata`, which can be used as the very first declaration in a document (i.e., before `\documentclass`), defines metadata and other configuration data that applies to the document as a whole (using a key/value syntax).

While the underlying functionality is still under development (e.g., further keys will be added over time and keys marked temporary may vanish again) the code for `\DocumentMetadata` is placed in a separate bundle, so that it is easier to update it without the need to build a full L^AT_EX release. Over time the functionality will move fully into the kernel.

`\DocumentMetadata` also loads and activates the new PDF management code from `pdfmanagement-testphase`. As this forces the loading of the `l3backend` files, a backend that can't be detected automatically like `dvipdfmx`, must be set in the first `\DocumentMetadata`.

From a process perspective `\DocumentMetadata` loads the `pdfmanagement-testphase` code the first time it is called and then redefines itself to only manage key/value pairs in case it is called more than once. In particular, this means that a document without a `\DocumentMetadata` declaration has no code available for extended management of PDF output as needed for various features developed as part of the multi-year “Tagged PDF” project [1].

2 The `\DocumentMetadata` command

<code>\DocumentMetadata</code>	<code>\DocumentMetadata{<key-value list>}</code>
--------------------------------	--

The command should be used as the first command in a document, before `\documentclass`. It takes a key-value argument.

3 Currently supported key/values

Currently the following keys are implemented for `\DocumentMetadata`:

backend Passes the backend name to `expl3`. This is needed only if the needed backend can't be automatically determined or if the workflow used requires a special backend.

*This file has version 1.0p dated 2025-04-28, © L^AT_EX Project.

pdfversion Sets the PDF version explicitly, e.g., `pdfversion=1.7`

uncompress (no value) Forces an uncompressed pdf — mainly for debugging purposes.

lang Explicitly sets the Lang entry in the Catalog, e.g., `lang=de-DE`. If not given the default value used is `en-US`.

pdfstandard Choice key to set the pdf standard. Currently A-1b, A-2a, A-2b, A-2u, A-3a, A-3b, A-3u, A-4, A-4E and A-4F are accepted as A-standard. values. The casing is irrelevant, `a-1b` works too. Note that using this key doesn't mean that the document actually follows the standard. L^AT_EX can neither ensure nor check all requirements of a standard, and not everything it can do theoretically has already been implemented. When setting an A-standard a color profile is included and the `/OutputIntent` is set and any javascript action in hyperref are suppressed. The u variants do not enforce unicode, but they will pass the information to hyperref. The a variants do *not* enforce (or even test) a tagged pdf yet.

Beside the A-standards it is also possible to use the values X-4, X-4p, X-5g, X-5n, X-5pg, X-6, X-6n, X-6p for a PDF/X and UA-1 and UA-2 for PDF/UA standard. UA-2 should only be used together with PDF 2.0. Currently these keys set *only* the relevant XMP-metadata. They do not validate or enforce special requirements (e.g., the UA standards do not automatically activate tagging).

`pdfstandard` can be used more than once to set overlapping standards, e.g: `pdfstandard=A-2b,pdfstandard=X-4,pdfstandard=UA-1`. It is also possible to pass a list like `pdfstandard={UA-2,A-4F}`.

If XMP-metadata are added (see the following key `xmp`) the necessary conformance markers for the standards are set.

More information can be found in the documentation of `l3pdfmeta`.

xmp A boolean, if set to false no XMP metadata are added to the PDF. The initial value is true. Details are described in the documentation of `l3pdfmeta`.

colorprofiles This allows to load icc-colorprofiles. Details are described in the documentation of `l3pdfmeta`.

tagging This key allows to activate, deactivate or partially deactivate the tagging support. It accepts the three values `on`, `off` and `draft`. When used, the key loads the `tagpdf` package and all modules that are loaded with `testphase=latest`. `tagging=off` deactivates then in the `class/before` hook the tagging commands. `tagging=draft` leaves the tagging commands active but it deactivates the writing of the structure tree at the end of the compilation. This can save time when drafting a longer document but preserves, e.g., MC-content marker in the PDF stream and warnings and errors from `tagpdf` if the structure is faulty.

tagging-setup This key allows to configure the tagging. It accepts all keys that can also be used in `\tagpdfsetup`; see the `tagpdf` documentation. Additionally, it accepts two keys to change the list of testphase modules loaded:

modules With this key it is possible to overwrite the list of modules loaded with by the `tagging` key. It will always load the `phase-II` module, so `modules={block,title}` does the same as `testphase={phase-II,block,title}`. Using this key is generally not needed, but if used the `tagging` key should only

be used before the `tagging-setup` key to avoid that it resets the list of modules to the `latest set` again.

extra-modules This key allows to load modules that haven't been added to the `latest set` yet.

testphase This key is used to load testphase code. With the introduction of the `tagging` and `tagging-setup` keys it is no longer necessary for a user to specify the `testphase` key; it is only retained for internal testing and to support documents written during the early days of the tagging project.

The `testphase` key can only be used in the first `\DocumentMetadata`. The values it accepts and their effect will change over time, when testphase packages are added or removed or when the code is moved into the kernel. The key accepts a list of values and it can be used more than once.

The value `latest` loads all modules that we recommend so that it is not necessary to specify individual modules.

The `phase` keys bundle testphase modules. They also all activate tagging.

phase-I This value loads code implementing the first phase of the project [1], i.e., it will load the `tagpdf` package. It will also activate tagging by issuing `\tagpdfsetup{activate,activate/spaces}`. This phase is frozen.

phase-II It differs from `phase-I` only in one point: It will additionally activate tagging of paragraphs with `\tagpdfsetup{para/tagging}`. In the upcoming months it will also enable automatic tagging of other basic document elements.

phase-III This is the current development phase. It differs from `phase-II` *a lot*: It will load new code for the tagging of lists, sectioning commands, table of contents and similar lists, graphics, minipages and floats. As it redefines many internals it is currently restricted to the use of standard classes (article, report, and book) and it supports only a limited number of add-on packages.

The various testphase modules can also be loaded individually (at least in theory, there can be hidden dependencies). If loaded like this, the `tagpdf` package is not loaded and tagging is not activated! The list of modules will change over time.

new-or-1 This patches a few commands related to the output routine. The patches are needed for the tagging of paragraphs, for the tagging of header and footer and to allow the PDF management to insert code which avoids that links happening at page breaks spills into the header and footer. This code is automatically loaded if the `testphase` values `phase-I`, `phase-II` or `new-or` are used.

new-or This loads more changes to the output routine required for the tagging. It is not compatible with every class! The code is also loaded by the `phase-II` value.

sec This adapts commands related to sectioning to make them tagging aware. The `sec` module is loaded by `phase-III`.

toc This adapts commands related to the table of contents and similar list to make them tagging aware. The `toc` module is loaded by `phase-III`.

graphic This enables tagging support for the `\includegraphics` command and the `picture` environment. This code is also loaded by the `phase-III` key.

- block** This reimplements lists and blocks environments and add tagging support. This code is also loaded by the `phase-III` key.
- minipage** This adds tagging support to `minipage` and `\parbox`. This code is also loaded by the `phase-III` key.
- float** This adds tagging support to floats. This code is also loaded by the `phase-III` key.
- bib** This adds tagging support to citations and bibliographies. This code is also loaded by the `phase-III` key.
- text** This module adds tagging support to the `LATEX` logo and to the `\emph` command. This code is also loaded by the `phase-III` key.
- marginpar** This module adds tagging support to the `\marginpar` command. This code is also loaded by the `phase-III` key.
- title** This module add tagging support to the `\maketitle` command if a standard class is used. It also enhances the `\title` and `\author` commands to fill the XMP-metadata and set the window title. It is not compatible with packages and classes which redefine these commands too. The module is currently not loaded by any `phase` key.
- math** This adapts math for tagging. This is only a prototype. The module is currently not loaded by any `phase` key.
- table** This provides basic tagging for `tabular`, `longtable` and similar table environments. The module is currently not loaded by any `phase` key. Its use and restrictions is documented in `latex-lab-table.pdf`.
- firstaid** This contains small adjustments to external packages. The module is currently not loaded by any `phase` key.
- debug** This key activates some debug options. It takes a list of key-values as value. Currently the following keys are known:
- para** with the default and only value `show`. It will activate the `paratagging-show` option of `tagpdf`,
 - log** with the values as described in the documentation `tagpdf`,
 - uncompress** which does the same as `uncompress` as main key
 - pdfmanagement** a boolean which allows to deactivate the pdfmanagement.
 - firstaidoff** This accepts a comma lists of keywords and disables the patches related to them. More information can be found in the documentation of `pdfmanagement-firstaid`.
 - xmp-export** This will export the XMP-metadata to a file `\jobname.xmpi`. with `debug={xmp-export=filename}` the file name can be changed. More information can be found in the documentation of `l3pdfmeta` of the `pdfmanagement-testphase` bundle.
 - tagpdf** This loads the package `tagpdf-debug` which enhances various commands from `tagpdf` with additional debugging options. This can slow down the compilation!
 - BBox** This helps to debug BBox values of graphics, see the documentation of `latex-lab-graphic`. It does nothing if the graphic `testphase` module is not loaded.

References

- [1] Frank Mittelbach and Chris Rowley: *L^AT_EX Tagged PDF—A blueprint for a large project*. <https://latex-project.org/publications/indexbyyear/2020/>

4 The Implementation

```
1 <@@=pdfmanagement>
2 <*code>
3
4 \RequirePackage{pdfmanagement-testphase}
5 \ExplSyntaxOn\makeatletter
```

4.1 Variables

These variable definitions are currently also done in `ltdocinit`. They can be removed from there once latex-lab has been updated to provide them too.

```
\g__pdfmanagement_firstaidoff_clist A list to store the firstaid code which should be disabled
6 \clist_if_exist:NF \g__pdfmanagement_firstaidoff_clist
7   { \clist_new:N \g__pdfmanagement_firstaidoff_clist }
(End of definition for \g__pdfmanagement_firstaidoff_clist.)
```

```
\g__pdfmanagement_testphase_tl a tl to store the testphase loading code so that we can load them at the end of the
command.
8 \tl_if_exist:NF \g__pdfmanagement_testphase_tl
9   { \tl_new:N \g__pdfmanagement_testphase_tl }
(End of definition for \g__pdfmanagement_testphase_tl.)
```

4.2 Kernel changes with `\DocumentMetadata`

```
\@kernel@before@DocumentMetadata
10 \cs_new_protected:Npn \@kernel@before@DocumentMetadata
11   {
12     \ifx\Umathcode\@undefined
13       \fontencoding{T1}
14       \renewcommand\encodingdefault{T1}
15     \fi
16   }
(End of definition for \@kernel@before@DocumentMetadata. This function is documented on page ??.)
```

4.3 `\DocumentMetadata`

```
\DocumentMetadata \DocumentMetadata should not be used after \documentclass so we error in this case.
It can be used more than once but follow-up calls should not do the initialization code.
17 \cs_set_protected:Npn \DocumentMetadata #1
18   {
19     \cs_if_eq:NNTF \documentclass \@twoclasseserror
20     { \msg_error:nn { meta } { after-class } }
21     {
```

Load general format changes

```
22      \@kernel@before@DocumentMetadata
```

The wanted backend must be detected first, we read the init key and then force the loading of the backend. The backend can contain management commands, so the boolean should be set to true first.

```
23      \bool_gset_true:N \g__pdfmanagement_active_bool
24      \keys_set_groups:nnn { document / metadata } {init}{ #1 }
25      %if no backend has been loaded force it now:
26      \str_if_exist:NF \c_sys_backend_str
27      {
28          \sys_load_backend:n {}
29      }
```

Now we load the extra backend code:

```
30      \ExplSyntaxOn\makeatletter
31      \file_input:n {l3backend-testphase-\c_sys_backend_str.def}
32      \ExplSyntaxOff\makeatother
33      \pdf_version_gset:n { 2.0 }
```

Process the non-init keys and setup the generic driver.

```
34      \keys_set_exclude_groups:nnn { document / metadata } { init } { #1 }
35      \bool_if:NT \g__pdfmanagement_active_bool
36      {
37          \PassOptionsToPackage{customdriver=hgeneric-testphase}{hyperref}
```

Finally we setup the language default. This is done after the begindocument hook so that it can pick up settings from babel. If the Catalog dictionary already contains a lang value we do nothing, otherwise we use the value stored in \BCPdata, either the main language (if its exists) or the fall back language. Note: if babel is loaded without a language this gives the language und.

```
38      \g@addto@macro\@kernel@after@begindocument
39      {
40          \pdfdict_get:nnN {g__pdf_Core/Catalog}{Lang}\l__pdfmanagement_tmpa_tl
41          \quark_if_no_value:NT\l__pdfmanagement_tmpa_tl
42          {
43              \tl_if_empty:eTF { \BCPdata{main.language} }
44              { \tl_set:Ne \l__pdfmanagement_tmpb_tl { \BCPdata{language} } }
45              { \tl_set:Ne \l__pdfmanagement_tmpb_tl { \BCPdata{main.language} } }
46              \msg_warning:nne { meta } { lang-missing }{ \l__pdfmanagement_tmpb_tl }
47              \exp_last_unbraced:Ne
48              \AddToDocumentProperties{[document]{lang}{\l__pdfmanagement_tmpb_tl}}
49              \pdfmanagement_add:nne {Catalog} {Lang}{(\l__pdfmanagement_tmpb_tl)}
50          }
51      }
```

\pdfmanagement_add:nnn has collected values in this hook.

```
53      \hook_use_once:n {pdfmanagement/add}
```

Now we redefine \DocumentMetadata so that it only process the keys on any further calls.

We need to update the hyperref option if the active status changes.

```
54      \cs_set_protected:Npn \DocumentMetadata ##1
55      {
56          \keys_set_exclude_groups:nnn { document / metadata } { init } { ##1 }
```

```

57         \str_remove_all:cn {opt@hyperref.sty}{customdriver=hgeneric-testphase}
58         \bool_if:NT \g__pdfmanagement_active_bool
59         {
60             \PassOptionsToPackage{customdriver=hgeneric-testphase}{hyperref}
61         }
62     }

```

Load more modules, the testphase code and the firstaid code. The code is only loaded in the first \DocumentMetadata call!

```

63         \g__pdfmanagement_testphase_tl
64         \RequirePackage{pdfmanagement-firstaid}
65     }
66 }

```

(End of definition for \DocumentMetadata. This function is documented on page 1.)

4.4 \DocumentMetadata keys

```

67 \keys_define:nn { document / metadata }
68 {
69     backend .choices:nn =
70     { dvipdfmx , dvips , dvisvgm , luatex , pdftex , pdfmode , xdvipdfmx , xetex }
71     {
72         \sys_load_backend:n {#1}
73     },
74     backend .groups:n = { init } ,
75 }
76
77 \keys_define:nn { document / metadata }
78 {
79     ,pdfversion .code:n =
80     {
81         \pdf_version_gset:n { #1 }
82         \AddToDocumentProperties[document]{pdfversion}{#1}
83     }
84     ,uncompress .code:n =
85     {
86         \pdf_uncompress:
87     }
88     ,uncompress .value_forbidden:n = true
89     ,lang .code:n =
90     {
91         \pdfmanagement_add:nnn {Catalog} {Lang}{( #1 )}
92         \AddToDocumentProperties[document]{lang}{#1}
93     }
94     %,xmpmeta .bool_gset:N = \g_pdfmeta_xmp_bool %see pdfmeta unused and undefined for now!
95     % this uses internal command from pdfmeta, it should probably move there ...
96     ,pdfstandard .code:n =
97     {
98         \clist_map_inline:nn{#1}
99         {
100             \keys_set:ne {document / metadata} {_pdfstandard=\str_uppercase:n{##1}}
101         }
102     }
103     ,_pdfstandard .choices:nn =

```

```

104 {A-1B,A-2A,A-2B,A-2U,A-3A,A-3B,A-3U,A-4}
105 {
106   \prop_gset_eq:Nc \g__pdfmeta_standard_prop { g__pdfmeta_standard_pdf/#1 _prop }
107   \AddToDocumentProperties [document]{pdfstandard}{#1}
108 }
109 ,_pdfstandard / A-4F .code:n =
110 {
111   \prop_gset_eq:Nc \g__pdfmeta_standard_prop { g__pdfmeta_standard_pdf/A-4F_prop }
112   \AddToDocumentProperties [document]{pdfstandard}{A-4F}
113 }
114 ,_pdfstandard / A-4E .code:n =
115 {
116   \prop_gset_eq:Nc \g__pdfmeta_standard_prop { g__pdfmeta_standard_pdf/A-4E_prop }
117   \AddToDocumentProperties [document]{pdfstandard}{A-4E}
118 }
119 ,_pdfstandard / unknown .code:n =
120 {
121   \msg_error:nnn{pdf}{unknown-standard}{#1}
122 }
123 ,testphase .multichoice:
124 ,testphase / latest .code:n =
125 {
126   \keys_set:nn
127   {document / metadata}
128   {testphase={phase-III,title,table,math,firstaid,tikz}}
129   \tl_gput_right:Nn\g__pdfmanagement_testphase_tl
130   {
131     \msg_note:nnn { meta } { testphase-latest-loading }
132     { phase-III,~title,~table,~math,~firstaid,~tikz }
133   }
134 }
135 ,testphase / tagpdf .code:n =
136 {
137   \tl_gput_right:Nn\g__pdfmanagement_testphase_tl
138   {
139     \file_if_exist_input:nF {tagpdf-latex-lab-testphase.ltx}
140     {
141       \RequirePackage{tagpdf}
142       \AddToDocumentProperties [document]{testphase/tagpdf}{loaded}
143       \tagpdfsetup{activate,para/tagging,activate/spaces}
144       \AddToDocumentProperties [document]{tagging}{active}
145       \AddToDocumentProperties [document]{tagging/para}{active}
146       \AddToDocumentProperties [document]{tagging/interwordspace}{active}
147     }
148   }
149 }
150 ,testphase / unknown .code:n =
151 {
152   \tl_gput_right:Nn\g__pdfmanagement_testphase_tl
153   {
154     \tl_if_empty:eT{\GetDocumentProperties{document/testphase/#1}}
155     {
156       \AddToDocumentProperties [document]{testphase/#1}{loaded}
157       \file_if_exist_input:nF {#1-latex-lab-testphase.ltx}

```

```

158         {
159             \msg_warning:nnn{meta}{latex-lab-pkg-missing}{#1}
160             \AddToDocumentProperties [document]{testphase/#1}{missing}
161         }
162     }
163 }
164 }
165 ,tagging .choice:,
166 ,tagging / on .code:n =
167 {
168     \keys_set:nn { document / metadata }{ testphase=latest }
169 }
170 ,tagging / off .code:n =
171 {
172     \keys_set:nn { document / metadata }{ testphase=latest }
173     \AddToHook{class/before}
174     {
175         \tagpdfsetup{activate/mc=false,activate/tree=false,
176                     activate/struct=false,activate/socket=false,
177                     para/tagging=false,math/setup=}
178         \AddToDocumentProperties [document]{tagging}{inactive}
179         \AddToDocumentProperties [document]{tagging/para}{inactive}
180         % perhaps, need to test
181         %\tag_suspend:n {global}
182         %\cs_set_eq:NN\tag_suspend:n\use_none:n
183         %\cs_set_eq:NN\tag_resume:n \use_none:n
184         %\cs_new_protected:Npn \tag_mc_begin:n #1 { \__tag_whatsits: \int_gincr:N \c@g__tag_
185         %\cs_new_protected:Nn \tag_mc_end:{ \__tag_whatsits: }
186         %\cs_new_protected:Npn \tag_struct_begin:n #1 {\int_gincr:N \c@g__tag_struct_abs_i
187         %\cs_new_protected:Npn \tag_struct_end:{}
188     }
189 }
190 ,tagging / draft .code:n =
191 {
192     \keys_set:nn { document / metadata }{ testphase=latest }
193     \AddToHook{shipout/lastpage}{tagging-setup}{\tagpdfsetup{activate/tree=false}}
194     \DeclareHookRule{shipout/lastpage}{tagging-setup}{before}{tagpdf}
195 }
196 ,tagging-setup .code:n =
197 {
198     \tl_gclear:N\g__pdfmanagement_testphase_tl
199     \keys_set:nn { document / metadata }{ testphase=latest }
200     \keys_set_groups:nnn{__tag/setup}{load}{#1}
201     \AddToHook{class/before}
202     {\keys_set_exclude_groups:nnn {__tag/setup}{load}{#1}}
203 }
204 ,debug .code:n =
205 {
206     \keys_set:nn { document / metadata / debug } {#1}
207 }
208 ,debug / para .code:n =
209 {
210     \AddToHook
211     {

```

```

212         package/tagpdf/after
213     }
214     {
215         \tagpdfsetup{debug/show=para}
216     }
217 }
218 ,debug / log .code:n =
219 {
220     \AddToHook
221     {
222         package/tagpdf/after
223     }
224     {
225         \tagpdfsetup{debug/log=#1}
226     }
227 }
228 ,debug / tagpdf .code:n =
229 {
230     \AddToHook
231     {
232         package/tagpdf/after
233     }
234     {
235         \RequirePackage{tagpdf-debug}
236     }
237 }
238 ,debug / uncompress .code:n =
239 {
240     \pdf_uncompress:
241 }
242 ,debug / pdfmanagement .bool_gset:N = \g__pdfmanagement_active_bool
243 ,debug / firstaidoff .clist_gset:N = \g__pdfmanagement_firstaidoff_clist
244 ,debug / BBox .code:n =
245 {
246     \AddToHook{package/latex-lab-testphase-graphic/after}
247     { \bool_set_true:N \l__tag_graphic_debug_bool}
248 }
249 }
250 \keys_define:nn{__tag/setup}
251 {
252     ,modules .code:n =
253     {
254         \tl_gclear:N\g__pdfmanagement_testphase_tl
255         \keys_set:nn { document / metadata }{testphase={phase-II,#1}}
256     }
257     ,modules .groups:n = { load }
258     ,extra-modules .code:n =
259     {
260         \keys_set:nn { document / metadata }{testphase={#1}}
261     }
262     ,extra-modules .groups:n = { load }
263 }

```

4.5 Messages

```

264 %Ufi is meta the right module name here?
265 \prop_gput:Nnn \g_msg_module_type_prop { meta } { LaTeX }
266 \prop_gput:Nnn \g_msg_module_name_prop { meta } { DocumentMetadata }
267
268 \msg_new:nnn { meta } { after-class }
269 {
270     \token_to_str:N \DocumentMetadata \c_space_tl
271     should-be-used-only-before-\token_to_str:N\documentclass
272 }
273 \msg_new:nnn { meta } { latex-lab-pkg-missing }
274 {
275     LaTeX-lab-package~'#1'~not~found.
276 }
277 \msg_new:nnn { meta } { lang-missing }
278 {
279     The~language~has~not~been~set~in~\token_to_str:N
280     \DocumentMetadata.\\Setting~it~to~'#1'~as~fallback.
281 }
282 \msg_new:nnn { meta } { testphase-latest-loading }
283 {
284     Loading~testphase~modules\\
285     #1
286 }
287 \ExplSyntaxOff\makeatother
288 </code>

```

Index

The italic numbers denote the pages where the corresponding entry is described, numbers underlined point to the definition, all others indicate the places where it is used.

Symbols	C
\\ 280, 284	c@g internal commands:
	\c@g__tag_MCID_abs_int 184
	\c@g__tag_struct_abs_int 186
A	clist commands:
\AddToDocumentProperties 48, 82, 92, 107, 112, 117, 142, 144, 145, 146, 156, 160, 178, 179	\clist_if_exist:NTF 6
\AddToHook 173, 193, 201, 210, 220, 230, 246	\clist_map_inline:nn 98
\author 4	\clist_new:N 7
	colorprofiles (key) 1
B	cs commands:
backend (key) 1	\cs_if_eq:NNTF 19
\BCPdata 6, 43, 44, 45	\cs_new_protected:Nn 185
bool commands:	\cs_new_protected:Npn 10, 184, 186, 187
\bool_gset_true:N 23	\cs_set_eq:NN 182, 183
\bool_if:NTF 35, 58	\cs_set_protected:Npn 17, 54
\bool_set_true:N 247	D
	debug (key) 1
	\DeclareHookRule 194

\documentclass	1, 5, 19, 271	testphase	1
\DocumentMetadata	1, 3, 5–7, 17, 270, 280	uncompress	1
		xmp	1
E		msg commands:	
\emph	4	\msg_error:nn	20
\encodingdefault	14	\msg_error:nnn	121
exp commands:		\g_msg_module_name_prop	266
\exp_last_unbraced:Ne	47	\g_msg_module_type_prop	265
\ExplSyntaxOff	32, 287	\msg_new:nnn	268, 273, 277, 282
\ExplSyntaxOn	5, 30	\msg_note:nnn	131
		\msg_warning:nnn	46, 159
F		P	
\fi	15	\parbox	4
file commands:		\PassOptionsToPackage	37, 60
\file_if_exist_input:nTF	139, 157	pdf commands:	
\file_input:n	31	\pdf_uncompress:	86, 240
\fontencoding	13	\pdf_version_gset:n	33, 81
G		pdfdict commands:	
\GetDocumentProperties	154	\pdfdict_get:nnN	40
H		pdfmanagement commands:	
hook commands:		\pdfmanagement_add:nnn	6, 49, 91
\hook_use_once:n	53	pdfmanagement internal commands:	
I		\g_pdfmanagement_active_bool	...
\ifx	12	...	23, 35, 58, 242
\includegraphics	3	\g_pdfmanagement_firstaidoff_	...
int commands:		clist	6, 243
\int_gincr:N	184, 186	\g_pdfmanagement_testphase_tl	...
		...	8, 63, 129, 137, 152, 198, 254
K		\l_pdfmanagement_tmpa_tl	40, 41
keys commands:		\l_pdfmanagement_tmpb_tl	...
\keys_define:nn	67, 77, 250	...	44, 45, 46, 48, 49
\keys_set:nn	100,	pdfmeta commands:	
126, 168, 172, 192, 199, 206, 255, 260		\g_pdfmeta_xmp_bool	94
\keys_set_exclude_groups:nnn	...	pdfmeta internal commands:	
...	34, 56, 202	\g_pdfmeta_standard_prop	...
\keys_set_groups:nnn	24, 200	...	106, 111, 116
L		pdfstandard (key)	1
lang (key)	1	pdfversion (key)	1
M		prop commands:	
\makeatletter	5, 30	\prop_gput:Nnn	265, 266
\makeatother	32, 287	\prop_gset_eq:NN	106, 111, 116
\maketitle	4	Q	
\marginpar	4	quark commands:	
metadata keys:		\quark_if_no_value:NTF	41
backend	1	R	
colorprofiles	1	\renewcommand	14
debug	1	\RequirePackage	4, 64, 141, 235
lang	1	S	
pdfstandard	1	str commands:	
pdfversion	1	\str_if_exist:NTF	26
		\str_remove_all:Nn	57

