The ltdocinit package

The LaTeX3 Project[*]

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1 ltdocinit documentation

This small package defines `\DeclareDocumentMetadata` and the related keys. `\DeclareDocumentMetadata` loads the new PDF management code. This forces the loading of the backend files the backend. So it needs at least a key to set the backend is needed.

Currently the following keys are implemented

backend passes the backend name to expl3. This will probably be extended to pass the value also to packages.

pdfversion e.g. `pdfversion=1.7`

uncompress no value. Forces an uncompressed pdf.

lang to set the Lang entry in the Catalog. E.g. `lang=de-DE`.

standard Choice key to set the pdf standard. Currently A-1b, A-2b and A-3b are accepted as values, but the underlying code to ensure the requirements (as far as they can be ensured) is incomplete.

pdfmanagement Boolean. This activates/deactivates the core management code. By default the value is true.

2 ltdocinit implementation

```
1 ⟨*package⟩
2 \ProvidesExplPackage {ltdocinit} {2020-11-27} {0.2}
3   {Set document metadata}
```

3 Document metadata

Currently there is no dedicated location to declare settings concerning a document as a whole. Settings are placed somewhere in the preamble or with the class options. For some settings this can be too late, for example the pdf version can no longer be changed if a package has already opened the PDF. `\DeclareDocumentMetadata` as a new command should unify such settings in one place. It should always be the first command in a document. Beside loading the PDF management code `\DeclareDocumentMetadata`

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currently allows to set the PDF version, to set the PDF `/Lang`, to uncompress a pdf, to set the language and to declare a few PDF standards.

```
4 ⟨@@=document⟩
5 ⟨*package⟩
6 ⟨@@=pdfmanagement⟩
```

```
7  \msg_new:nnn  { document } { setup-after-documentclass }
8          {
9              \token_to_str:N \DeclareDocumentMetadata \c_space_tl
10             should~be~used~only~before~\token_to_str:N\documentclass
11         }
12
13
14 \NewDocumentCommand\DeclareDocumentMetadata { m }
15   {
16     \cs_if_eq:NNTF \documentclass \@twoclasseserror
17       { \msg_error:nn { document }{ setup-after-documentclass } }
18       {
19         \keys_set_groups:nnn { pdf / setup} {init}{ #1 }
20         \RequirePackage{l3pdf}   %should be loaded after the backend is set.
21          % %load backend driver
22         \ExplSyntaxOn\makeatletter
23           \file_input:n {l3\c_sys_backend_str-pdf.def} %should be inside the normal backend
24         \ExplSyntaxOff\makeatother
25         \RequirePackage{l3pdfutils}
26         \RequirePackage{l3pdfannot}
27         \bool_gset_true:N \g__pdfmanagement_active_bool
28         \keys_set_filter:nnn  { pdf / setup } { init } { #1 }
29         \bool_if:NT \g__pdfmanagement_active_bool
30           {
31             \PassOptionsToPackage{customdriver=hgeneric-experimental}{hyperref}
32           }
33         \hook_use_once:n {pdfmanagement/add}
34         \RenewDocumentCommand\DeclareDocumentMetadata { m }
35           {
36             \keys_set_filter:nnn  { pdf / setup } { init } { ##1 }
37             \bool_if:NTF \g__pdfmanagement_active_bool
38             {
39               \str_remove_all:cn {opt@hyperref.sty}{customdriver=hgeneric-experimental}
40               \PassOptionsToPackage{customdriver=hgeneric-experimental}{hyperref}
41             }
42             {
43               \str_remove_all:cn {opt@hyperref.sty}{customdriver=hgeneric-experimental}
44             }
45           }
46         \RequirePackage{pdfmanagement-firstaid}
47       }
48   }
49
50 \prop_new:N \g__pdfmanagement_documentmetadata_prop %
51
52 \NewDocumentCommand\AddToDocumentMetadata{O{\@currname}mm}
53   {
54     \exp_args:NNx
55       \prop_gput:Nnn \g__pdfmanagement_documentmetadata_prop
56         {
57           \tl_if_blank:eTF {#1}{top-level/}{#1/} #2
58         }
59         { #3}
60   }
61
62 \NewExpandableDocumentCommand\GetDocumentMetadata{m}
63   {
64     \prop_item:Nn \g__pdfmanagement_documentmetadata_prop {#1}
65   }
66
67 \NewDocumentCommand\ShowDocumentMetadata {}
68   {
69     \prop_show:N \g__pdfmanagement_documentmetadata_prop
70   }
```

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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.

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