

The ltdocinit module

The L^AT_EX Project*

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1 ltdocinit documentation

This small module previously defined `\DocumentMetadata` but the definition has been moved to latex-lab. The documentation can be found in `documentmetadata-support-doc.pdf`

`\DocumentMetadata` is also used to activate the new PDF management code and it loads a number of required files for the PDF management code. As this forces the loading of the backend files, a backend which can't be detected automatically like `dvipdfmx`, must be set in the first `\DocumentMetadata`.

The module also defines commands to store document properties in a global container.

This module will slowly disappear.

1.1 Container for document properties

The module provides a container where classes, packages and users can store properties of the document which are perhaps of interest or use for other packages or the author.

The properties are stored with a key `label/property`. The values can be retrieved expandably.

<code>\AddToDocumentProperties</code>	<code>\AddToDocumentProperties[⟨label⟩]{⟨property⟩}{⟨value⟩}</code>
---------------------------------------	---

This stores `⟨value⟩` under the key `⟨label⟩/⟨property⟩`. By default `⟨label⟩` is the current package name `\@currname`. If another label is chosen, it should be one which avoids clashes with other packages using the container. The label `document` is reserved.

<code>\GetDocumentProperty</code>	<code>\GetDocumentProperty{⟨label/property⟩}</code>
<code>\pdfmanagement_get_documentproperty:n</code>	<code>\pdfmanagement_get_documentproperty:n{⟨label/property⟩}</code>

Updated: 2025-06-21

Expands to the `⟨value⟩` corresponding to `⟨label/property⟩` in the container. If `⟨label/property⟩` is missing, this has an empty expansion. The result is returned within `\exp_not:n`, which means that the `⟨value⟩` does not expand further when appearing in an x-type argument expansion. The older names `\GetDocumentProperties` and `\pdfmanagement_get_documentproperties:n` are still provided for compatibility.

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<code>\pdfmanagement_get_documentproperty:nNTF</code>	<code>\pdfmanagement_get_documentproperty:nNTF{<label/property>} <token list variable></code>
Updated: 2025-06-21	<code>{<true code>} {<false code>}</code>

If the `<label/property>` is not present in the document properties container, leaves the `<false code>` in the input stream. The value of the `<token list variable>` is not defined in this case and should not be relied upon. If the `<label/property>` is present in the container, stores the corresponding `<value>` in the `<token list variable>` without removing it from the container, then leaves the `<true code>` in the input stream. The `<token list variable>` is assigned locally. The older name `\pdfmanagement_get_documentproperty:nN` is still provided for compability.

<code>\ShowDocumentProperties</code>	<code>\ShowDocumentProperties</code>
<code>\LogDocumentProperties</code>	<code>\LogDocumentProperties</code>

This shows/logs the current content of the container.

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/>

2 ltdocinit implementation

```

1 <@@=pdfmanagement>
2 <*header>
3 \ProvidesExplPackage{ltdocinit}{2025-08-05}{0.96v}
4   {Initialize document metadata}
5 </header>

6 <*package>

```

2.1 Variables

This variable definitions can be remove 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

```

7 \clist_if_exist:NF \g_pdfmanagement_firstaidoff_clist
8   { \clist_new:N \g_pdfmanagement_firstaidoff_clist }

```

(End of definition for `\g_pdfmanagement_firstaidoff_clist`.)

2.2 Container for document Properties

The container for the document properties is a prop

`\g_pdfmanagement_documentproperties_prop`

```

9 \prop_new:N \g_pdfmanagement_documentproperties_prop %

```

(End of definition for `\g_pdfmanagement_documentproperties_prop`.)

`\AddToDocumentProperties`

```
10 \NewDocumentCommand\AddToDocumentProperties{0{\@currname}mm}
11 {
12   \exp_args:NNe
13     \prop_gput:Nnn \g__pdfmanagement_documentproperties_prop
14     {
15       \tl_if_blank:eTF {#1}{top-level/}{#1/} #2
16     }
17     { #3}
18 }
```

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

`\GetDocumentProperty` `\GetDocumentProperties`

```
19 \cs_new:Npn\GetDocumentProperty #1
20 {
21   \prop_item:Nn \g__pdfmanagement_documentproperties_prop {#1}
22 }
23 \cs_new_eq:NN\GetDocumentProperties\GetDocumentProperty
```

(End of definition for `\GetDocumentProperty` and `\GetDocumentProperties`. These functions are documented on page 1.)

For uses in modules (e.g. `l3pdfmeta`) we provide an `expl3` version without the `xparse` overhead:

`\pdfmanagement_get_documentproperty:n`

```
24 \cs_new:Npn\pdfmanagement_get_documentproperty:n #1
25 {
26   \prop_item:Nn \g__pdfmanagement_documentproperties_prop {#1}
27 }
28 \cs_new_eq:NN
29   \pdfmanagement_get_documentproperties:n
30   \pdfmanagement_get_documentproperty:n
```

(End of definition for `\pdfmanagement_get_documentproperty:n`. This function is documented on page 1.)

The following allows to retrieve the values with branching.

`\pdfmanagement_get_documentproperty:nTF`

```
31 \prg_new_protected_conditional:Npnn
32   \pdfmanagement_get_documentproperty:nN #1#2 { T , F , TF }
33   {
34     \prop_get:NnNTF \g__pdfmanagement_documentproperties_prop {#1} #2
35     {
36       \prg_return_true:
37     }
38     {
39       \prg_return_false:
40     }
41   }
```

```

42 \prg_new_eq_conditional:NNn
43 \pdfmanagement_get_documentproperties:nN
44 \pdfmanagement_get_documentproperty:nN
45 { T , F , TF }

```

(End of definition for `\pdfmanagement_get_documentproperty:nNTF`. This function is documented on page 2.)

`\ShowDocumentProperties`

```

46 \msg_new:nnn { pdfmanagement } { show-properties }
47 {
48   The-following-document-properties~have~been~stored:
49   #1
50 }
51 \NewDocumentCommand\ShowDocumentProperties {}
52 {
53   \msg_show:nne {pdfmanagement}{show-properties}
54   {
55     \prop_map_function:NN \g__pdfmanagement_documentproperties_prop \msg_show_item:nn
56   }
57 }
58 \NewDocumentCommand\LogDocumentProperties {}
59 {
60   \msg_log:nne {pdfmanagement}{show-properties}
61   {
62     \prop_map_function:NN \g__pdfmanagement_documentproperties_prop \msg_show_item:nn
63   }
64 }

```

(End of definition for `\ShowDocumentProperties`. This function is documented on page 2.)

```
65 \endpackage
```

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