

The ltdocinit module

The L^AT_EX Project*

Version 0.97b, released 2026-05-17

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[\langle label \rangle]{\langle property \rangle}{\langle value \rangle}</code>
---------------------------------------	---

This stores `\langle value \rangle` under the key `\langle label \rangle/\langle property \rangle`. By default `\langle label \rangle` 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{\langle label/property \rangle}</code>
<code>\pdfmanagement_get_documentproperty:n</code>	<code>\pdfmanagement_get_documentproperty:n {\langle label/property \rangle}</code>

Updated: 2025-06-21

Expands to the `\langle value \rangle` corresponding to `\langle label/property \rangle` in the container. If `\langle label/property \rangle` is missing, this has an empty expansion. The result is returned within `\exp_not:n`, which means that the `\langle value \rangle` 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>} <tl var> {<true code>} {<false code>}</code>
---	--

Updated: 2025-06-21

If the `<label/property>` is not present in the document properties container, leaves the `<false code>` in the input stream. The value of the `<tl var>` 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 `<tl var>` without removing it from the container, then leaves the `<true code>` in the input stream. The `<tl var>` is assigned locally. The older name `\pdfmanagement_get_documentproperty:nN` is still provided for compatibility.

<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}{2026-05-17}{0.97b}
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. TODO: check if that is needed if the pdfmanagement is loaded as standalone.

```

\g__pdfmanagement_firstaidoff_clist
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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