

The documentmetadata-support code*

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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 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.

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`.

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pdfstandard Choice key to set the pdf standard. Currently A-1b, A-2a, A-2b, A-2u, A-3a, A-3b, A-3u and A-4 are accepted as values. The casing is irrelevant, a-1b works too. Note that using these 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 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.

Starting with version 0.95s of pdfmanagement-testphase it is also possible to use the values X-4, X-4p, X-5g, X-5n, X-5pg, X-6, X-6n, X-6p, UA-1 for a PDF/X and PDF/UA standard. These keys currently set *only* the relevant XMP-metadata.

pdfstandard can be used more than once to set overlapping standards, e.g:
pdfstandard=A-2b,pdfstandard=X-4,pdfstandard=UA-1

If XMP-metadata are added (see the following key xmp the needed conformance marker 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.

testphase This key is used to load testphase code. 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.

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,interwordspace}. This phase is frozen.

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

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.

The testphase key can only be used in the first \DocumentMetadata.

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.

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/>

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