

# The l3pdf package

## Core PDF support

The L<sup>A</sup>T<sub>E</sub>X3 Project\*

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## 1 l3pdf documentation

### 1.1 Objects

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**\pdf\_object\_new:nn**

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New: 2019-06-02

**\pdf\_object\_new:nn**  $\{\langle object \rangle\}$   $\{\langle type \rangle\}$

Declares  $\langle object \rangle$  as a PDF object of  $\langle type \rangle$ , which should be one of

- `array`
- `dict`
- `fstream`
- `stream`

The object may be referenced from this point on, and written later using `\pdf_object_write:nn`.

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**\pdf\_object\_if\_exist\_p:n \***

**\pdf\_object\_if\_exist:nTF \***

New: 2020-05-15

**\pdf\_object\_if\_exist\_p:n**  $\{\langle object \rangle\}$

**\pdf\_object\_if\_exist:nTF**  $\{\langle object \rangle\}$

Tests whether an object with name  $\{\langle object \rangle\}$  has been defined.

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**\pdf\_object\_write:nn**

**\pdf\_object\_write:nx**

New: 2019-06-02

**\pdf\_object\_write:nn**  $\{\langle object \rangle\}$   $\{\langle content \rangle\}$

Writes the  $\langle content \rangle$  as content of the  $\langle object \rangle$ . Depending on the  $\langle type \rangle$  declared for the object, the format required for the  $\langle data \rangle$  will vary

**array** A space-separated list of values

**dict** Key-value pairs in the form  $/\langle key \rangle \langle value \rangle$

**fstream** Two brace groups:  $\langle file name \rangle$  and  $\langle file content \rangle$

**stream** Two brace groups:  $\langle attributes (dictionary) \rangle$  and  $\langle stream contents \rangle$

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<hr/> <code>\pdf_object_ref:n</code> *	<code>\pdf_object_ref:n {&lt;object&gt;}</code>
<hr/> New: 2019-06-02	Inserts the appropriate information to reference the <i>&lt;object&gt;</i> in for example page resource allocation
<hr/> <code>\pdf_object_now:nn</code>	<code>\pdf_object_now:nn {&lt;type&gt;} {&lt;content&gt;}</code>
<code>\pdf_object_now:nx</code>	Writes the <i>&lt;content&gt;</i> as content of an anonymous object. Depending on the <i>&lt;type&gt;</i> , the format required for the <i>&lt;data&gt;</i> will vary
<hr/> New: 2019-06-02	

**array** A space-separated list of values

**dict** Key-value pairs in the form */<key> <value>*

**fstream** Two brace groups: *<file name>* and *<file content>*

**stream** Two brace groups: *<attributes (dictionary)>* and *<stream contents>*

<hr/> <code>\pdf_object_last:</code> *	<code>\pdf_object_last:</code>
<hr/> New: 2019-06-02	Inserts the appropriate information to reference the last <i>&lt;object&gt;</i> created. This is particularly useful for anonymous objects.

## 1.2 Version

<hr/> <code>\pdf_version_compare_p:Nn</code> *	<code>\pdf_version_compare:NnTF &lt;comparator&gt; {&lt;version&gt;} {&lt;true code&gt;} {&lt;false code&gt;}</code>
<hr/> <code>\pdf_version_compare:NnTF</code> *	
<hr/> New: 2019-06-02	

Compares the version of the PDF being created with the *<version>* string specified, using the *<comparator>*. Either the *<true code>* or *<false code>* will be left in the output stream.

<hr/> <code>\pdf_version_gset:n</code>	<code>\pdf_version_gset:n {&lt;version&gt;}</code>
<code>\pdf_version_min_gset:n</code>	Sets the <i>&lt;version&gt;</i> of the PDF being created. The <code>min</code> version will not alter the output version unless it is currently lower than the <i>&lt;version&gt;</i> requested.
<hr/> New: 2019-06-02	This function may only be used up to the point where the PDF file is initialised.

<hr/> <code>\pdf_version:</code> *	<code>\pdf_version:</code>
<code>\pdf_version_major:</code> *	Expands to the currently-active PDF version.
<code>\pdf_version_minor:</code> *	
<hr/> New: 2019-06-02	

## 1.3 Compression

<hr/> <code>\pdf_uncompress:</code>	<code>\pdf_uncompress:</code>
<hr/> New: 2019-06-02	Disables any compression of the PDF, where possible.
	This function may only be used up to the point where the PDF file is initialised.

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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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