

# The l3pdf package

## Core PDF support

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

Released 2020-06-03

## 1 l3pdf documentation

### 1.1 Objects

---

`\pdf_object_new:nn`

---

New: 2019-06-02

`\pdf_object_new:nn {<object>} {<type>}`

Declares *<object>* as a PDF object of *<type>*, 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`.

---

`\pdf_object_if_exist_p:n *`

`\pdf_object_if_exist:nTF *`

---

New: 2020-05-15

`\pdf_object_if_exist_p:n {<object>}`

`\pdf_object_if_exist:nTF {<object>}`

Tests whether an object with name *{<object>}* has been defined.

---

`\pdf_object_write:nn`

`\pdf_object_write:nx`

---

New: 2019-06-02

`\pdf_object_write:nn {<object>} {<content>}`

Writes the *<content>* as content of the *<object>*. Depending on the *<type>* declared for the object, the format required for the *<data>* will vary

`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>*

---

\*E-mail: [latex-team@latex-project.org](mailto:latex-team@latex-project.org)

<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.

# Index

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.

<b>P</b>	
pdf commands:	
\pdf_object_if_exist:nTF .....	<i>1</i>
\pdf_object_if_exist_p:n .....	<i>1</i>
\pdf_object_last: .....	<i>2</i>
\pdf_object_new:nn .....	<i>1</i>
\pdf_object_now:nn .....	<i>2</i>
\pdf_object_ref:n .....	<i>2</i>
\pdf_object_write:nn .....	<i>1, 1</i>
\pdf_uncompress: .....	<i>2</i>
\pdf_version: .....	<i>2</i>
\pdf_version_compare:NnTF .....	<i>2</i>
\pdf_version_compare_p:Nn .....	<i>2</i>
\pdf_version_gset:n .....	<i>2</i>
\pdf_version_major: .....	<i>2</i>
\pdf_version_min_gset:n .....	<i>2</i>
\pdf_version_minor: .....	<i>2</i>