

pdfcomment.sty

v2.3

A user-friendly interface to PDF annotations

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Abstract

For a long time pdf_latex has offered the command `\pdfannot` for inserting arbitrary PDF annotations. However, the command is presented in a form where additional knowledge of the definition of the PDF format is indispensable. This package is an answer to the – occasional – questions in newsgroups, about how one could use the comment function of Adobe Reader. At least for the writer of L^AT_EX code, the package offers a convenient and user-friendly means of using `\pdfannot` to provide comments in PDF files. Since version v1.1, pdfcomment.sty also supports:

L^AT_EX → dvips → ps2pdf, L^AT_EX → dvipdfmx¹ and XeL^AT_EX.

Unfortunately, support of PDF annotations by PDF viewers is sparse to nonexistent. The reference viewer for the development of this package is Adobe Reader.



If you can't see this annotation  you are definitely using the wrong PDF viewer!

Required packages for using pdfcomment.sty

hyperref (v6.76a [2007/04/09]), zref (v1.8 [2007/04/22]), xkeyval, ifpdf, ifthen, calc, marginnote, datetime, refcount, soulpos and the packages loaded by them.

¹only with style option dvipdfmx

Contents

1 Options	4		
1.1 Global options	4		
1.1.1 final	4		
1.1.2 draft	4		
1.1.3 dvipdfmx	4		
1.1.4 version	4		
1.2 Local options	4		
1.2.1 id	4		
1.2.2 subject	4		
1.2.3 author	4		
1.2.4 opacity	5		
1.2.5 icon	5		
1.2.6 deadline	5		
1.2.7 color	5		
1.2.8 icolor	6		
1.2.9 open	6		
1.2.10 hspace	6		
1.2.11 type	6		
1.2.12 font	6		
1.2.13 fontsize	6		
1.2.14 fontcolor	7		
1.2.15 line	7		
1.2.16 linewidth	7		
1.2.17 linebegin	7		
1.2.18 lineend	7		
1.2.19 linesep	7		
1.2.20 borderstyle	7		
1.2.21 dashstyle	7		
1.2.22 bse	8		
1.2.23 bsei	8		
1.2.24 caption	8		
1.2.25 captionhoffset	8		
1.2.26 captionvoffset	8		
1.2.27 voffset	8		
1.2.28 hoffset	8		
1.2.29 width	8		
1.2.30 height	8		
		1.2.31 markup	8
		1.2.32 disable	9
		1.2.33 date	9
		1.2.34 timezone	9
		1.2.35 avatar	9
		1.2.36 style	9
		1.2.37 mathstyle	9
		1.2.38 printSOfinal	9
2 Environments	10		
2.1 Comment environments	10		
2.1.1 \pdfsidelinecomment	10		
3 Commands	10		
3.1 Comment commands	10		
3.1.1 \pdfcomment	10		
3.1.2 \pdfmargincomment	11		
3.1.3 \pdfmarkupcomment	11		
3.1.4 \pdffreetextcomment	12		
3.1.5 \pdfsquarecomment	12		
3.1.6 \pdfcirclecomment	12		
3.1.7 \pdflinecomment	12		
3.2 Replies	13		
3.2.1 \pdfreply	13		
3.3 Tooltips	13		
3.3.1 \pdftooltip	13		
3.4 Misc. commands	13		
3.4.1 \pdfcommentsetup	13		
3.4.2 \listofpdfcomments	14		
3.4.3 \setliststyle	14		
3.4.4 \defineliststyle	14		
3.4.5 \defineavatar	14		
3.4.6 \definestyle	14		
4 Printing comments and pop-ups	15		
References	16		

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$\text{\LaTeX} \rightarrow \text{dvips} \rightarrow \text{ps2pdf}$, $\text{\LaTeX} \rightarrow \text{dvipdfmx}$ and XeLaTeX .

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²see section 4

1 Options

1.1 Global options

1.1.1 final

The option `final` will set the package to final mode. The PDF annotations will not be typeset and will not influence line breaking. Use the local option `disable` if you want to disable single PDF annotations. (see: [1.2.32](#))

1.1.2 draft

The option `draft` (default) will set the package to draft mode. Therefore, the PDF annotations will be typeset.

1.1.3 dvipdfmx

If you want to use the driver `dvipdfmx` for creating your documents, you have to use the option `dvipdfmx`. The other drivers are recognized automatically.

1.1.4 version

Version v2.0 of `pdfcomment.sty` introduced a bugfix that removes unwanted whitespace before the comment commands. This may also change the reference point for options like `hoffset`. If you want to preserve the old behavior for older documents simply use `version=1`. Otherwise `version=2` is used by default!

1.2 Local options

The following options are useable as options for the commands presented in sections [2](#) and [3](#), as well as style options. As style options they have global effect, whereas they have only local effect when used in commands. Furthermore global options are not overwritten.

1.2.1 id

You can use the option `id` to define a unique ID for referencing in a PDF reply (see [3.2.1](#)).

1.2.2 subject

You can use the option `subject` for defining the subject of the PDF popup annotations.

1.2.3 author

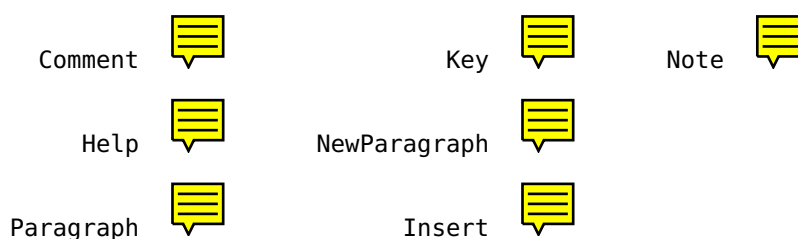
You can use the option `author` for defining the author of the PDF popup annotations.

1.2.4 opacity (1.0)

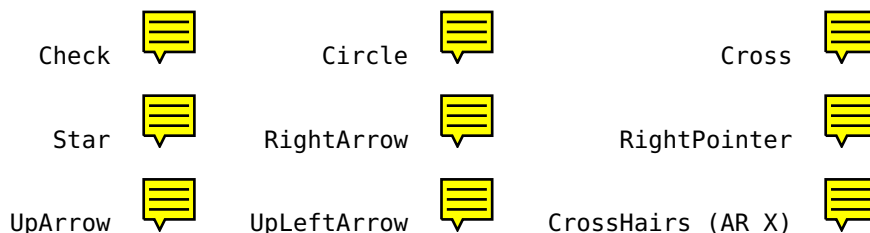
You can use the option `opacity` for defining the opacity of PDF annotations with values between 0 (transparent) and 1 (not transparent). If you want to print PDF popup annotations with transparency you will have to use the option `open=true`.

1.2.5 icon (Comment)

You can use the option `icon` for defining the graphic used for the PDF text annotations. The following icons are defined as mandatory by the PDF reference:



Furthermore the following icons are also supported by Adobe Reader and some other PDF viewers:



1.2.6 deadline

You can use the option `deadline` for defining a time limit until a problem has to be solved. The deadline will be added at the end of the comment, as well as in the list of comments, if an appropriate list style is chosen.

1.2.7 color ([0 0 1] (blue))

You can use the option `color` for defining the color of PDF annotations in the form `{0.34 0.56 0.12}` (RGB). If you are using the additional package `xcolor` you can use predefined color names, as well as the available optional color names. Furthermore you can use the command `\definecolor` to define your own named colors. Please take a look at the attached example `example.tex`. It shows the different possibilities of defining colors.



By definition the PDF specification allows four different color spaces with different numbers of color values:

#	color space
0	transparent
1	grey scale
3	RGB
4	CMYK

1.2.8 icolor

You can use the option `icolor` for defining the so called 'inner color', which is used by some PDF annotations, like arrowheads or the inner area of PDF circle annotation. For the rest, the provisions of the option `color` shall apply.

1.2.9 open (true,false)

You can use the option `open` for defining the opening status of the PDF popup annotations.

If you want to print the PDF popup annotations (with transparency) you will have to use the option `open=true`.

1.2.10 hspace (0pt)


You can use the option `hspace` for defining the horizontal space after the PDF text annotations, otherwise the PDF text annotations will overlay the text.

1.2.11 type

You can use the option `type` for defining the type of PDF annotation, if a comment command supports more than one PDF annotations:

comment command	possible types
<code>\pdfreetextcomment</code>	<u>freetext</u> , callout, typewriter
<code>\pdflinecomment</code>	<u>line</u> , polyline, polygon

1.2.12 font (Helv)

You can use the option `font` for defining the font of PDF freetext annotations, like all fonts installed in the system, which don't contain a space in their name. Although Adobe Reader shows these fonts as embedded, they are not embedded in reality, but the PDF file just contains a reference³ to the font (default: Helvetica)! Therefore you should use this option quite carefully. In the case of document exchange between several authors you should just use fonts, which are available on all computer systems, like the so called 'standard 14 fonts'. 

1.2.13 fontsize (12bp)

You can use the option `fontsize` for defining the fontsize of PDF freetext annotations.

³Adobe Acrobat offers the possibility to embed the fonts in the PS → PDF conversion

1.2.14 fontcolor ([0 0 0] (black))

You can use the option fontcolor for defining the font color in PDF freetext annotations, which must be a RGB color.

1.2.15 line

You can use the option line for defining the coordinates of lines in certain PDF annotations, e.g. in the form $\{x_1\ y_1\ x_2\ y_2\}$. The origin is in the bottom left page corner. The given numbers will be interpreted as Postscript points (L^AT_EX unit: bp (big points)), as usual in PDF documents.

type of line	# points
line	$n = 2$
polyline, polygon	$n > 2$
callout line	$n = 3$


In general, the points must be given from line begin to line end. For callout lines the points must be given from line end to line begin. Please note the example file [example.pdf](#)!

To avoid the method 'trial and error' you can load the PDF file with the Ghostscript viewer, which is capable of showing the cursor position in its status line.

1.2.16 linewidth (1bp)

You can use the option linewidth for defining the line width of PDF annotations.

1.2.17 linebegin (/None)

You can use the option linebegin for defining the arrow type at the line begin. The example file [example.pdf](#) shows all possible types of arrows. 

1.2.18 lineend (/OpenArrow)

You can use the option lineend for defining the arrow type at the line end.

1.2.19 linesep (0.5cm)

You can use the option linesep for defining the horizontal space between text and line in the command \pdfsidelinecomment.

1.2.20 borderstyle (solid,dashed)

You can use the option borderstyle for defining the line style.

1.2.21 dashstyle ({3 3})

You can use the option dashstyle for defining the dash style, e.g. {5 3} (5 points line, 3 points space).

1.2.22 **bse** (none,cloudy)

You can use the option bse for defining the 'border style effect'.

1.2.23 **bsei** (1)

You can use the option bsei for defining the 'border style effect intensity' (size of cloud elements). The PDF reference suggests values between 1 and 2.

1.2.24 **caption** (none,inline,top)

You can use the option caption for defining the caption type of lines. The options inline and top shows the comment 'inline' and on top of the line. While using none the comment will be shown in a PDF popup annotation.

1.2.25 **captionhoffset** (0pt)

You can use the option captionhoffset for defining a horizontal offset, that is a horizontal shift of the line caption.

1.2.26 **captionvoffset** (0pt)

You can use the option captionvoffset for definig a vertical offset of the line caption.

1.2.27 **voffset** (0pt)

You can use the option voffset for defining a vertical offset of the PDF annotations, that is a vertical shift for the given length.

1.2.28 **hoffset** (0pt)

You can use the option hoffset for defining a horizontal offset of the PDF annotations.

1.2.29 **width** (0pt)

You can use the option width for defining the width of PDF annotations, e. g. the width of FreeText annotations. PDF text annatations have a width of 0pt by definition.

1.2.30 **height** (0pt)

You can use the option height for definig the height of PDF annotations. PDF text annatations have a height of \baselineskip by definition.

1.2.31 **markup** (Highlight,Underline,Squiggly,StrikeOut)

You can use the option markup for defining the type of the PDF text markup annotation.

1.2.32 `disable (true,false)`

You can use the option `disable` for switching off single PDF annotation. For switching off all PDF annotations use the global option `final`.

1.2.33 `date`

You can use the option `date` to assign a date to PDF annotations. If no explicit date is assigned the date and time of the creation of the PDF document is used. The input has to be in PDF date format, e.g.:

```
D:YYYYMMDDhhmmss+TZ
D:20101224153657+01'00'
```

1.2.34 `timezone (+00'00')`

You only have to use the option `timezone`, if you are using automatic date setting and Xe \LaTeX or pdf \LaTeX < v1.30.0. Otherwise the pdf \LaTeX command `\pdfcreationdate` will be used. `timezone=+01'00'` sets the timezone to middle european time (default: `+00'00'` (GMT)).

1.2.35 `avatar`

With the option `avatar` you can load the option lists, that were predefined with the command `\defineavatar` to avoid annoying typing.

1.2.36 `style`

With the option `style` you can also load predefined option lists for splitting personal and stylistic options, e.g. `avatar=Josef`, `style=MyComment`.

1.2.37 `mathstyle (\textstyle)`

With the option `mathstyle` you can correct the wrong size of PDF annotations produced with `\pdfmarkupcomment` or `\pdftooltip` in math mode by setting the math style to `\textstyle`, `\displaystyle`, `\scriptstyle` or `\scriptscriptstyle`. This option is only defined for `\pdfmarkupcomment` and `\pdftooltip`, so you can not set it globally!

1.2.38 `printSofinal (true,false)`

With the option `printSofinal` you can automatically delete PDF StrikeOut markup annotations including the text while using one of the options `final` or `disable`.

2 Environments

2.1 Comment environments

2.1.1 \pdfsidelinecomment

```
\begin{pdfsidelinecomment}
  [\langle options \rangle]{\langle comment \rangle}
  ...
\end{pdfsidelinecomment}
```

Possible options: avatar, style, subject, author, color, icolor, opacity, linewidth, linebegin, lineend, linesep, borderstyle, dashstyle, caption, captionhoffset, captionvoffset, disable, date, timezone

With the environment `pdfsidelinecomment` you can comment complete parts of a page in the form of two lines in the margins.

Limitations:

- The PDF sideline annotation must not be longer than one page, otherwise the recognition of the page break will fail.
- While using dvi files in the meantime you have to use a L^AT_EX distribution, which is using pdf(e)latex as engine in a version \geq v1.40.0⁴!
- While using XeL^AT_EX you have to make sure that page dimensions are written to the xdvi file, e.g. with the option `pagesize` of the KoMa-Script classes, or as option of the package `typearea.sty` respectively.

3 Commands


3.1 Comment commands

You can use the following commands for commenting your documents.

3.1.1 \pdfcomment

```
\pdfcomment
[\langle options \rangle]{\langle comment \rangle}
```

Possible options: avatar, style, subject, author, icon, color, opacity, open, hspace, voffset, hoffset, disable, date, timezone

`\pdfcomment` will typeset an annotation into the text at the current  position. Internally, the argument `{\langle comment \rangle}` needs to be converted to PDFDocEncoding/PDFUnicode⁵. Some chars with special meaning in L^AT_EX (&, %, ...) must be escaped or replaced with their command form, e.g. `_` or `\textunderscore` [RO11, 6.2 Definition of `\pdfstringdef`]. Furthermore there are some commands for formatting:

<code>\textHT</code>	horizontal tab
<code>\textLF</code>	line feed
<code>\textCR</code>	carriage return

⁴older versions are not capable of providing x/y coordinates of the current position in dvi mode.

⁵`\hypersetup{unicode}`

3.1.2 `\pdfmargincomment`

`\pdfmargincomment`
`[<options>]{<comment>}`

Possible options: avatar, style, subject, author, icon, color, opacity, open, hspace, voffset, hoffset, disable, date, timezone



`\pdfmargincomment` will typeset an annotation into the margin. Please note the positioning of the annotation in this example. This documentation was written with the \LaTeX class `ltxdoc`. Therefore the annotation is typeset into the left margin.

3.1.3 `\pdfmarkupcomment`

`\pdfmarkupcomment`[<options>]
`{<markup text>}{<comment>}`

Possible options: avatar, style, subject, author, color, opacity, markup, mathstyle, disable, date, timezone

`\pdfmarkupcomment` will typeset so called PDF text markup annotations over the text specified in the argument `{<markup text>}`. Possible types for the option markup are: **Highlight**, Underline, Squiggly and ~~StrikeOut~~

Limitations:

- As the name PDF text markup annotation might lead to suggest, this form of comment is suitable for text only.
- The specified text with the argument `{<markup text>}` must not be longer than one paragraph.
- The PDF text markup annotation must not be longer than one page, otherwise the recognition of the page break will fail.
- While using dvi files in the meantime you have to use a \LaTeX distribution, which is using pdf(e)latex as engine in a version $\geq v1.40.0^6$!
- While using Xe \LaTeX you have to make sure that page dimensions are written to the xdvi file, e. g. with the option `pagesize` of the KoMa-Script classes, or as option of the package `typearea.sty` respectively.

Since version v1.6, `\pdfmarkupcomment` is also supported in math mode. So you can also comment formula like:

Bernoulli Trials: $P(E) = \binom{n}{k} p^k (1-p)^{n-k}$

Also see [example_math_markup.pdf](#) for a more detailed explanation of the possibilities!

⁶older versions are not capable of providing x/y coordinates of the current position in dvi mode.

3.1.4 \pdfreetextcomment

`\pdfreetextcomment`
`[(options)]{comment}` Possible options: avatar, style, subject, author, color, font, fontsize, fontcolor, opacity, line, linewidth, lineend, borderstyle, dashstyle, bse, bsei, type, height, width, voffset, hoffset, disable, date, timezone

`\pdfreetextcomment` (type=freetext) will typeset a comment in form of a freely positioned box on the wished spot of the page. By using the option type=callout the box will have an additional so called callout line, to bind the box to a certain element of the page. With the option type=typewriter you can write a comment everywhere on the page with a virtual 'typewriter'. These PDF freetext annotation do have no frame and a transparent background for 'overwriting' arbitrary parts of the page. Please note the example file [example.pdf](#)!



3.1.5 \pdfsquarecomment

`\pdfsquarecomment`
`[(options)]{comment}` Possible options: avatar, style, subject, author, color, icolor, opacity, linewidth, borderstyle, dashstyle, bse, bsei, height, width, voffset, hoffset, disable, date, timezone

`\pdfsquarecomment` will typeset a rectangular box at the wished spot of a page (see: [example.pdf](#)).

3.1.6 \pdfcirclecomment

`\pdfcirclecomment`
`[(options)]{comment}` Possible options: avatar, style, subject, author, color, icolor, opacity, linewidth, borderstyle, dashstyle, bse, bsei, height, width, voffset, hoffset, disable, date, timezone

`\pdfsquarecomment` will typeset a comment in form of a circle or ellipse at the wished spot of the page (see: [example.pdf](#)).

3.1.7 \pdflinecomment

`\pdfsidelinecomment`
`[(options)]{comment}` Possible options: avatar, style, subject, author, type, color, icolor, opacity, caption, captionhoffset, captionvoffset, linewidth, linebegin, lineend, line, borderstyle, dashstyle, disable, date, timezone

`\pdflinecomment` will typeset a comment in form of a line, polyline or polygon at the wished spot of the page (see: [example.pdf](#)).

3.2 Replys

3.2.1 \pdfreply

`\pdfreply`
`[\langle options \rangle]{\langle comment \rangle}`

Possible options: avatar, style, subject, author, id, replyto, color, disable, date, timezone



With the command `\pdfreply` you can compose replys to comments. The option `replyto` provides a clear reference to the comment the reply refers to.⁷. Due to technical reasons the command `\pdfreply` works only while using `pdflatex`. Furthermore the command can not support page breaks (`\pdfmarkupcomment`, `\pdfsidelinecomment`). The replys will only appear in the PDF annotations on the second page. Replys to comments without page break work smoothly!



3.3 Tooltips

3.3.1 \pdftooltip

`\pdftooltip`
`[\langle options \rangle]`
`{\langle object \rangle}{\langle comment \rangle}`

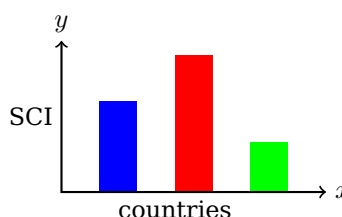
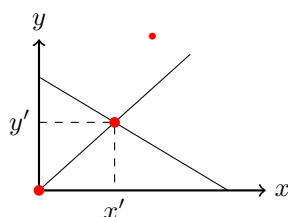
Possible options: disable, mathstyle

With the command `\pdftooltip` you can annotate any object with a tooltip - provided the the object can be set into a box to measure its size. Therefore you can smoothly use tooltips with **words** or in a chemical notation: H_2SO_4 . Of course, it also works in equations:

$$\sum_{i=1}^n i = \frac{1}{2}n \cdot (n + 1)$$

Please notice the comments about usage in math mode in section 3.1.3.

If you want to annotate parts of a graphic with tooltips, special methods are needed, because `\pdftooltip` can not measure the size (see: [example.pdf](#)). `\pdftooltip` can not be influenced with the `final` option, as most users certainly want to have the tooltips in the final document. But they can be switched off with the `disable` option.



3.4 Misc. commands

3.4.1 \pdfcommentsetup

`\pdfcommentsetup`
`[\langle options \rangle]{\langle options \rangle}`

With the command `\pdfcommentsetup` you can reset the global options at any time. By using the optional option `local` you can keep the reset local within a \LaTeX group.

⁷The replys must be typeset on the same page than the refering comments

3.4.2 `\listofpdfcomments`

`\listofpdfcomments[<options>]` The command `\listofpdfcomments` creates a list of the PDF comments to ease finding them. The command offers the following options:

- `liststyle` specifies the list style. Possible option values are:
 - `<AuthorSubject>` (default)
 - `<AuthorSubjectDeadline>`
 - `<SubjectAuthorComment>`
 - `<SubjectAuthorCommentDeadline>`
 - `<AuthorComment>`
 - `<AuthorCommentDeadline>`
 - `<SubjectComment>`
 - `<SubjectCommentDeadline>`
 - `<Comment>`
 - `<CommentDeadline>`
- `heading` specifies an alternative heading, e.g. `heading={List of comments}`.

3.4.3 `\setliststyle`

`\setliststyle{<name>}` The command `\setliststyle` is necessary, if comments are used before `\listofpdfcomments` and you wish to have an alternative list style.

3.4.4 `\defineliststyle`

`\defineliststyle{<name>}{<definition>}` With the command `\defineliststyle` you can define new list styles, e.g.:

```
\makeatletter
\defineliststyle{MyListstyle}{\pc@lopt@subject\ \textcolor{green}
{(\pc@lopt@author)}:\ \pc@lopt@comment\ \textcolor{red}
{(\pc@lopt@deadline)}}
\makeatother
```

3.4.5 `\defineavatar`

`\defineavatar{<name>}{<options>}` With the command `\defineavatar` you can create named predefined option lists, which can be later used in the comment commands with the option `avatar`. With this option, it's easy for several authors of the same document to switch between different avatars, that is their graphical representation.

3.4.6 `\definestyle`

`\definestyle{<name>}{<options>}` With the command `\definestyle` you can split up lists in personal and stylistic option lists (see [example.pdf](#)). This option list can be loaded with the option `style`.

4 Printing comments and popups

Basically, Adobe Reader is able to print PDF annotations. Therefore, you have to choose 'Document and Markups' in the field 'Comments and Forms' of the print dialog. Additionally, you have to configure the menu 'Edit → Preferences... → Commenting → Print notes and pop-ups'. This entry exists since the release of Adobe Reader X. For older versions, the only possibility is to edit the configuration files itself.

Windows: the registry needs to be changed (on your own risk!)

Start the registry editor (`regedit.exe`) and open the following key, e.g. for Adobe Reader 9.0:

`HKEY_CURRENT_USER/Software/Adobe/Acrobat Reader/9.0/Annots/
cPrefs`

The key for other version will be similar, except version number and some letters in lower- or uppercase!

Open or create (with closed Adobe Reader) the key
`bprintCommentPopups` and change the value to 1 (dword).

Linux: open the configuration file:

```
~/.adobe/Acrobat/8.0/Preferences/reader_prefs  
with a text editor and change the entry  
/printCommentPopups [/b false] to /printCommentPopups [/b true]
```

Please note that only opened popups will be printed!

References

- [Ado05] Adobe Systems Incorporated: *pdfmark Reference Manual*. 2005. – URL: http://www.adobe.com/devnet/acrobat/pdfs/pdfmark_reference.pdf
- [Ado06] Adobe Systems Incorporated: *PDF Reference sixth edition*. 2006. – URL: http://www.adobe.com/devnet/acrobat/pdfs/pdf_reference_1-7.pdf
- [Adr08] Adriaens, Hendri: *The xkeyval package*. 2008. – TEXMF://doc/latex/xkeyval/xkeyval.pdf
- [Car99] Carlisle, David: *The file ltxdoc.dtx for use with L^AT_EX*. 1999. – TEXMF://doc/latex/base/ltxdoc.dvi
- [Gün02] Günther, Karsten: *L^AT_EX Ge-packt*. 1. Auflage. mitp, 2002. – ISBN 3-8266-0785-6
- [Ker07] Kern, Uwe: *Extending L^AT_EX 's color facilities: the xcolor package*. 2007. – TEXMF://doc/latex/xcolor/xcolor.pdf
- [Mer02] Merz, Thomas: *Die PostScript & PDF Bibel*. PDFLib edition. dpunkt-Verlag, 2002. – URL: http://www.pdflib.com/fileadmin/pdflib/pdf/Bibel/bibel_d_pdfmark_1x1.pdf
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