## The l3pdfxform package Commands for form XObjects LATEX PDF management testphase bundle

The LATEX Project\*

Version 0.95a, released 2021-02-22

## 1 **I3pdfxform** documentation

This module contains a number of commands to create "form XObjects", for which pdfT<sub>E</sub>X introduced the short name "xforms".

The status is still beta, so the style itself is currently named l3pdfxform-beta. Missing is for example code for the dvips route. Probably some of the function will also need to be enhanced by hooks.

\pdfxform_new:nnn	$\verb  \draw  = (\ame )                                    $
New: 2019-08-05	This command create a new form XObject that can be used as appearance or directly
Updated: 2021-02-14	later. If the $\langle content \rangle$ contains BDC-marks it should $not$ be given as a previously type-
	set box, but directly so that the names of the BDC-marks can be added to the re-
	sources of the xform. The xform will automatically include the resources of the current
	page. The content will be typeset in a hbox. With pdflatex and luatex the surround-
	ing color is not stored in the form XObject but should be if wanted added e.g. with
	\color_select:n{.}. This keeps the option of color injection open.

\pdfxform	1100.0	\ndfwform	11co · n	1/	nama	١,
\paixiorm	use:n	\paixiorm	use:n	1 (	name	<b>ነ</b> ነ

New: 2019-08-05 This command uses (typesets) a previously created form XObject. If the surrounding color is different, it is injected in the form XObject with the engines pdftex or luatex.

\pdfxform_ref	:n *	\pdfxform	ref:n	{ <	name)	}}
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New: 2019-08-05 Inserts the appropriate information to reference the xform  $\langle name \rangle$  in for example appearance dictionaries.

 $\pdfxform_wd:n * \pdfxform_wd:n {\langle name \rangle}$ 

\pdfxform\_dp:n \*

\pdfxform\_ht:n \* These command give back the sizes of the form XObject. The values are stored in tlvariables with the unit pt and not in dimensions! New: 2019-08-05

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```
\pdfxform_if_exist_p:n * \pdfxform_if_exist_p:n {\( name \) \}
New: 2020-04-29 These command tests if an xform with name \{\langle name \rangle\} has been already defined.
                               I3pdfxform implementation
                          1 (00=pdf)
                          2 (*header)
                          3 \ProvidesExplPackage {13pdfxform-beta} {2021-02-22} {0.95a}
                              {command to create xforms (beta)---LaTeX PDF management testphase bundle}
                                Form XObject (pdfxform)
                          2.1
      \pdfxform_new:nnn
                          6 (*package)
                          7 \cs_new_protected:Npn \pdfxform_new:nnn #1 #2 #3
                                \__pdf_backend_xform_new:nnnn { #1 } { #2 } { } { #3 }
                         (End definition for \pdfxform_new:nnn. This function is documented on page 1.)
        \pdfxform_use:n
                         11 \cs_new_protected:Npn \pdfxform_use:n #1
                                \__pdf_backend_xform_use:n { #1 }
                         (\mathit{End \ definition \ for \ } \texttt{pdfxform\_use:n.} \ \mathit{This \ function \ is \ documented \ on \ page \ 1.})
        \pdfxform_ref:n
        \pdfxform_ref:o
                         15 % expansion?
                         16 \cs_new:Npn \pdfxform_ref:n #1
                                \__pdf_backend_xform_ref:n { #1 }
                         21 \cs_generate_variant:Nn \pdfxform_ref:n {o}
                         (End definition for \pdfxform_ref:n. This function is documented on page 1.)
         \pdfxform_wd:n
         \pdfxform_ht:n
                         22 \cs_new:Npn \pdfxform_wd:n #1
         \pdfxform_dp:n
                                \tl_use:c { c__pdf_backend_xform_wd_ \tl_to_str:n { #1 } _tl }
```

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27 \cs\_new:Npn \pdfxform\_ht:n #1

\tl\_use:c { c\_\_pdf\_backend\_xform\_ht\_ \tl\_to\_str:n { #1 } \_tl }

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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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\mathbf{C}
                                     \pdfxform_if_exist:NTF ..... 2
cs commands:
                                     \pdfxform_if_exist:nTF ..... 2
  \cs_generate_variant:Nn ..... 21
                                     \pdfxform_if_exist_p:n ..... 2
  \c _{new:Npn} \dots 16, 22, 27, 32
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                                     \tl_use:N ..... 24, 29, 34
```