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

The LATEX Project\*

Version 0.95k, released 2022-01-28

## 1 **I3pdfxform** documentation

This module contains a number of commands to create "form XObjects", for which pdfTeX introduced the short name "xforms".

The status is still beta. The dvips route is now better supported but there are open issus if landscape pages are involved or if the objects are larger than the page. With dvips the creation of a form involves typesetting and so can affect spacing.

Probably some of the function will also need to be enhanced by hooks.

\pdfxform_new:nnn	$\verb  \dfxform_new:nnn {$\langle name \rangle$} {\langle attributes \rangle} {\langle \langle content \rangle$} $
New: 2019-08-05	This command create a new form XObject that can be

New: 2019-08-05 This command create a new form XObject that can be used as appearance or directly later. If the \( \chion \chion text{total total tota

 $\verb| \dfxform_use:n \$ 

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.

 $\verb| \pdfxform_ref:n * \pdfxform_ref:n { \langle name \rangle }$ 

New: 2019-08-05 Inserts the appropriate information to reference the xform  $\langle name \rangle$  in for example appearance dictionaries.

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

\pdfxform\_ht:n \* These command give back the sizes of the form XObject. The values are stored in tl-\pdfxform\_dp:n \* variables 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}{2022-01-28}{0.95k}
                              {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 }
                         25
```

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

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

## 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.

```
\mathbf{C}
                                  \pdfxform_if_exist:nTF . . . . . 2, <u>36</u> \pdfxform_if_exist_p:n . . . . 2, <u>36</u>
cs commands:
  \cs_generate_variant:Nn ..... 21
  \c ... 16, 22, 27, 32
                                  \pdfxform_new:nnn \dots 1, 6, 7
                                  \cs_new_protected:Npn \dots 7, 11
                                  \pdfxform_use:n ..... 1, <u>11</u>, 11
                                  pdf internal commands:
                                \_pdf_backend_xform_new:nnnn .... 9
                                              \mathbf{T}
  \_pdf_backend_xform_ref:n .... 18
  \_{pdf\_backend\_xform\_use:n} .... 13
                               tl commands:
pdfxform commands:
                                  \tl_to_str:n ..... 24, 29, 34
  \tl_use:N ...... 24, 29, 34
```