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

The LATEX Project*

Version 0.95d, released 2021-05-14

1 **I3pdfxform** documentation

This module contains a number of commands to create "form XObjects", for which pdfTFX 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	\pdfxform_new:nnn	$\{\langle {\tt name} \rangle \}$	$\{\langle attributes \rangle \}$	$\{\langle content \rangle\}$
	m1 · 1	4	c vol:	.1 . 1

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 typeset box, but directly so that the names of the BDC-marks can be added to the resources 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 surrounding 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.

$\pdfxform_use:n \pdfxform_use:n {\langle name \rangle}$

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.

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

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 {\(\lame \) \}

\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}{2021-05-14}{0.95d}
                              {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 }

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                                     \tl_use:N ..... 24, 29, 34
```