The intopdf package*

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This package defines a command `\attachandlink` which allows to attach an arbitrary file to your PDF document and linking to it from the main text. It is inspired by the TEXStack Exchange question Embed non-PDF files (e.g., BibTex) into PDF with hyperlink in the PDF. The engines pdfLaTeX and LuaLaTeX are supported.

1 Usage

`\attachandlink` `\attachandlink [⟨filespec⟩]{⟨filename⟩}[⟨mime-type⟩]{⟨Description⟩}{⟨link text⟩}`

The text ⟨*link text*⟩ is inserted, linking to the file ⟨*filename*⟩ which is attached to the document.

⟨*Description*⟩ should be a description of the file and will be shown by the PDF viewer in the atttached files section and sometimes in a mouseover tooltip.
⟨*mime-type*⟩ should be the MIME-Type of ⟨*filename*⟩. Currently ⟨*mime-type*⟩ is mandatory but I hope to make it optional in a later release. Additionally ⟨*filespec*⟩ can be used to specify the filename which will be shown in the PDF viewer. If this is not given, it will default to ⟨*filename*⟩.

2 Example

The source of the document is attached here.

```
The source of the document is attached
\attachandlink{intopdf.dtx}[application/x-tex]
    {The source of this document}{here}.
```

3 The implementation

```
⟨@@=intopdf⟩
```

Only pdfTeX and LuaLaTeX are supported. For other engines we show an error.

```
\msg_new:nnnn{intopdf}{engine-unsupported}
  {Your~TeX~engine~is~not~supported~by~intopdf.}
  {To~use~intopdf,~you~have~to~use~pdfLaTeX~or~LuaLaTeX.}
```

Then we define some wrappers for the primitives.

*This document corresponds to intopdf 0.2.1, dated 2019/05/28.

```
\cs_generate_variant:Nn\str_case:nnF{VnF}
\str_case:VnF\c_sys_engine_str{
  {pdftex}{
    \cs_new:Nn\__intopdf_escape_name:n{\pdfescapename{#1}}
    \cs_new:Nn\__intopdf_escape_string:n{(\pdfescapestring{#1})}
    \cs_new:Nn\__intopdf_pdfobj:n{
      \tex_immediate:D\pdftex_pdfobj:D{<<#1>>}
    }
    \cs_new:Nn\__intopdf_pdfstream_file:nn{
      \tex_immediate:D\pdftex_pdfobj:D stream attr {#1} file {#2}
    }
    \cs_new:Nn\__intopdf_lastobj_ref:{
      \c_space_tl
      \int_use:N\pdftex_pdflastobj:D
      \c_space_tl
      0
      \c_space_tl
      R
    }
    \cs_new:Npn\__intopdf_annot:nnw#1#2{
      \leavevmode
      \pdftex_pdfstartlink:D attr{#1} user {#2}
    }
    \cs_new:Nn\__intopdf_annot_end:{
      \pdftex_pdfendlink:D
    }
  }
  {luatex}{
    \RequirePackage{pdftexcmds}
    \cs_new:Nn\__intopdf_escape_name:n{\pdf@escapename{#1}}
    \cs_new:Nn\__intopdf_escape_string:n{(\pdf@escapestring{#1})}
    \cs_new:Nn\__intopdf_pdfobj:n{
      \tex_immediate:D\luatex_pdfextension:D obj{<<#1>>}
    }
    \cs_new:Nn\__intopdf_pdfstream_file:nn{
      \tex_immediate:D\luatex_pdfextension:D obj stream attr {#1} file {#2}
    }
    \cs_new:Nn\__intopdf_lastobj_ref:{
      \c_space_tl
      \luatex_pdffeedback:D lastobj
      \c_space_tl
      0
      \c_space_tl
      R
    }
    \cs_new:Npn\__intopdf_annot:nnw#1#2{
      \leavevmode
      \luatex_pdfextension:D startlink attr{#1} user {#2}
    }
    \cs_new:Nn\__intopdf_annot_end:{
      \luatex_pdfextension:D endlink
      \scan_stop:
    }
  }
```

```
}{
  \msg_critical:nn{intopdf}{engine-unsupported}
}
\cs_new:Nn\__intopdf_annot:nnn{
  \__intopdf_annot:nnw{#1}{#2}
  #3
  \__intopdf_annot_end:
}
```

\attachandlink The main functionality.

\intopdf_attach_link:nnnnn
\intopdf_attach_link:nnnn

```
\cs_new_protected:Nn\intopdf_attach_link:nnnnn{
  \__intopdf_pdfstream_file:nn{
    /Subtype /\__intopdf_escape_name:n{#3}
  }{#2}
  \__intopdf_pdfobj:n{
    /Type /Filespec
    /F \__intopdf_escape_string:n{#1}
    /EF << /F \__intopdf_lastobj_ref: >>
    /Desc \__intopdf_escape_string:n{#4}
  }%
  \__intopdf_annot:nnn{
    \Hy@setpdfborder
    \tl_if_empty:NF\@pdfhighlight{
      /H\@pdfhighlight
    }
    \cs_if_free:NF\@urlbordercolor{
      /C[\@urlbordercolor]
    }
  }{
    /Subtype /Link
  }{
    \__intopdf_annot:nnn{}{
      /Subtype /FileAttachment
      /FS \__intopdf_lastobj_ref:
      /F\c_space_tl 416
      /CA\c_space_tl 0
      /Contents \__intopdf_escape_string:n{#4}
    }{
      #5
    }
  }
}
\cs_new_protected:Npn \intopdf_attach_link:nnnn #1{
  \intopdf_attach_link:nnnnn{#1}{#1}
}
\NewDocumentCommand\attachandlink{O{#2}mr[]mm}{
  \intopdf_attach_link:nnnnn{#1}{#2}{#3}{#4}{#5}
}
```

(*End definition for* `\attachandlink`, `\intopdf_attach_link:nnnnn`, *and* `\intopdf_attach_link:nnnn`. *These functions are documented on page* 1.)

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.

A

\attachandlink *1*, *1*, 67

C

cs commands:
\cs_generate_variant:Nn 5
\cs_if_free:NTF 82
\cs_new:Nn 8, 9, 10, 13, 16, 28, 34, 35, 36, 39, 42, 54, 62
\cs_new:Npn 24, 50
\cs_new_protected:Nn 67
\cs_new_protected:Npn 99

I

int commands:
\int_use:N 18
intopdf commands:
\intopdf_attach_link:nnnn 67
\intopdf_attach_link:nnnnn . . . *5*, 67
intopdf internal commands:
__intopdf_annot:nnn 62, 77, 88
__intopdf_annot:nnw 24, 50, 63
__intopdf_annot_end: 28, 54, 65
__intopdf_escape_name:n . . . 8, 34, 69
__intopdf_escape_string:n 9, 35, 73, 75, 93
__intopdf_lastobj_ref: 16, 42, 74, 90
__intopdf_pdfobj:n 10, 36, 71
__intopdf_pdfstream_file:nn 13, 39, 68

L

\leavevmode 25, 51
luatex commands:
\luatex_pdfextension:D . 37, 40, 52, 55
\luatex_pdffeedback:D 44

M

msg commands:
\msg_critical:nn 60
\msg_new:nnnn 2

N

\NewDocumentCommand 102

P

\pdfescapename 8
\pdfescapestring 9
pdftex commands:
\pdftex_pdfendlink:D 29
\pdftex_pdflastobj:D 18
\pdftex_pdfobj:D 11, 14
\pdftex_pdfstartlink:D 26

R

\RequirePackage 33

S

scan commands:
\scan_stop: 56
str commands:
\str_case:nnTF 5, 6
sys commands:
\c_sys_engine_str 6

T

TEX and LATEX 2ε commands:
\@pdfhighlight 79, 80
\@urlbordercolor 82, 83
\Hy@setpdfborder 78
\pdf@escapename 34
\pdf@escapestring 35
tex commands:
\tex_immediate:D 11, 14, 37, 40
tl commands:
\c_space_tl 17, 19, 21, 43, 45, 47, 91, 92
\tl_if_empty:NTF 79

Change History

v0.0.1

General: Initial version 1

v0.1.0

General: Added LuaLATEX support . . . 1

v0.2.0
`\intopdf_attach_link:nnnn`: Added filespec support. (The first optional argument) Added `\intopdf_attach_link:nnnnn`. . . 3