

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 T_EXStack Exchange question [Embed non-PDF files \(e.g., BibTeX\) into PDF with hyperlink in the PDF](#). The engines pdfL^AT_EX and LuaL^AT_EX are supported.

1 Usage

`\attachandlink` `{\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 attached 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.

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

```
1 <@@=intopdf>
```

Only pdfT_EX and LuaL^AT_EX are supported. For other engines we show an error.

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

Then we define some wrappers for the primitives.

```
5 \cs_generate_variant:Nn\str_case:mnF{VnF}
6 \str_case:VnF\c_sys_engine_str{
```

*This document corresponds to intopdf 0.1.0, dated 2018/03/15.

```

7 {pdftex}{
8   \cs_new:Nn\__intopdf_escape_name:n{\pdfescapename{#1}}
9   \cs_new:Nn\__intopdf_escape_string:n{(\pdfescapestring{#1})}
10  \cs_new:Nn\__intopdf_pdfobj:n{
11    \tex_immediate:D\pdftex_pdfobj:D{<<#1>>}
12  }
13  \cs_new:Nn\__intopdf_pdfstream_file:nn{
14    \tex_immediate:D\pdftex_pdfobj:D stream attr {#1} file {#2}
15  }
16  \cs_new:Nn\__intopdf_lastobj_ref:{
17    \c_space_tl
18    \int_use:N\pdftex_pdflastobj:D
19    \c_space_tl
20    0
21    \c_space_tl
22    R
23  }
24  \cs_new:Npn\__intopdf_annot:nnw#1#2{
25    \leavevmode
26    \pdftex_pdfstartlink:D attr{#1} user {#2}
27  }
28  \cs_new:Nn\__intopdf_annot_end:{
29    \pdftex_pdfendlink:D
30  }
31 }
32 {luatex}{
33   \RequirePackage{pdftexcmds}
34   \cs_new:Nn\__intopdf_escape_name:n{\pdf@escapename{#1}}
35   \cs_new:Nn\__intopdf_escape_string:n{(\pdf@escapestring{#1})}
36   \cs_new:Nn\__intopdf_pdfobj:n{
37     \tex_immediate:D\luatex_pdfextension:D obj{<<#1>>}
38   }
39   \cs_new:Nn\__intopdf_pdfstream_file:nn{
40     \tex_immediate:D\luatex_pdfextension:D obj stream attr {#1} file {#2}
41   }
42   \cs_new:Nn\__intopdf_lastobj_ref:{
43     \c_space_tl
44     \luatex_pdffeedback:D lastobj
45     \c_space_tl
46     0
47     \c_space_tl
48     R
49   }
50   \cs_new:Npn\__intopdf_annot:nnw#1#2{
51     \leavevmode
52     \luatex_pdfextension:D startlink attr{#1} user {#2}
53   }
54   \cs_new:Nn\__intopdf_annot_end:{
55     \luatex_pdfextension:D endlink
56     \scan_stop:
57   }
58 }
59 }{
60   \msg_critical:nn{intopdf}{engine-unsupported}

```

```

61 }
62 \cs_new:Nn\__intopdf_annot:nnn{
63   \__intopdf_annot:nnw{#1}{#2}
64   #3
65   \__intopdf_annot_end:
66 }
\intopdf_attach_link:nnnn The main functionality.
\attachandlink
67 \cs_new_protected:Nn\intopdf_attach_link:nnnn{
68   \__intopdf_pdfstream_file:nn{
69     /Subtype /\__intopdf_escape_name:n{#2}
70   }{#1}
71   \__intopdf_pdfobj:n{
72     /Type /Filespec
73     /F \__intopdf_escape_string:n{#1}
74     /EF << /F \__intopdf_lastobj_ref: >>
75     /Desc \__intopdf_escape_string:n{#3}
76   }%
77   \__intopdf_annot:nnn{
78     \Hy@setpdfborder
79     \tl_if_empty:NF\@pdfhighlight{
80       /H\@pdfhighlight
81     }
82     \cs_if_free:NF\@urlbordercolor{
83       /C[\@urlbordercolor]
84     }
85   }{
86     /Subtype /Link
87   }{
88     \__intopdf_annot:nnn{}{
89       /Subtype /FileAttachment
90       /FS \__intopdf_lastobj_ref:
91       /F\c_space_tl 416
92       /CA\c_space_tl 0
93       /Contents \__intopdf_escape_string:n{#3}
94     }{
95       #4
96     }
97   }
98 }
99 \cs_new_protected:Npn\attachandlink#1[#2]#3#4{
100   \intopdf_attach_link:nnnn{#1}{#2}{#3}{#4}
101 }

```

(End definition for `\intopdf_attach_link:nnnn` and `\attachandlink`. These functions are documented on page ??.)

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Change History

v0.0.1	v0.1.0
General: Initial version 1	General: Added LuaL ^A T _E X support 1