

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 pdfL^AT_EX and LuaL^AT_EX are supported.

1 Usage

<code>\attachandlink</code>	<code>\attachandlink [<i><filespec></i>]{<i><filename></i>}[<i><mime-type></i>]{<i><Description></i>}{<i><link text></i>}</code>
-----------------------------	--

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. 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

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

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

```
2 \msg_new:nnnn{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.

*This document corresponds to intopdf 0.2.0, dated 2019/05/21.

```

5 \cs_generate_variant:Nn\str_case:nnF{VnF}
6 \str_case:VnF\c_sys_engine_str{
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:nnnnn The main functionality.
\intopdf_attach_link:nnnn
  \attachandlink
67 \cs_new_protected:Nn\intopdf_attach_link:nnnnn{
68   \__intopdf_pdfstream_file:nn{
69     /Subtype /\__intopdf_escape_name:n{#3}
70   }{#2}
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{#4}
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{#4}
94     }{
95       #5
96     }
97   }
98 }
99 \cs_new_protected:Npn \intopdf_attach_link:nnnn #1{
100   \intopdf_attach_link:nnnnn{#1}{#1}
101 }
102 \NewDocumentCommand\attachandlink{O{#2}mr[]mm}{
103   \intopdf_attach_link:nnnnn{#1}{#2}{#3}{#4}{#5}
104 }

```

(End definition for \intopdf_attach_link:nnnnn, \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	General: Added LuaL ^A T _E X support . . .
<i>1</i>	<i>1</i>

v0.2.0

\attachandlink: Added filespec
support. (The first optional

argument) Added

\intopdf_attach_link:nnnnn. . . 3