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

1 ⟨@@=intopdf⟩

Only pdfTEX and LuaLATEX 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.

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*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

v0.2.0