

The icon-appr Package

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processed June 27, 2020

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1 Required packages

```

2 \RequirePackage{xkeyval}
3 \RequirePackage{ifpdf}[2006/02/20]
4 \RequirePackage{ifxetex}[2006/08/21]
5 \RequirePackage{ifluatex}
6 \RequirePackage{eforms}[2018/11/10]
7 \RequirePackage{graphicx}
8 \@ifundefined{ifpdfmarkup}{\newif{ifpdfmarkup}}{\pdfmarkupfalse}
9 \ifpdf\else\ifxetex\else\pdfmarkuptrue\fi\fi
10 \ifpdfmarkup\else
11 \def\ReqPkg{\RequirePackage{datatool}}\expandafter
12 \ReqPkg\fi

```

2 Introduction

The `\specials` and primitives of `pdflatex`, `lualatex`, and `xelatex` are used to provide support for inserting icon appearances into a button form field. We require `eforms` (2018/11/10) to create the form fields because the form support by `hyperref` does not provide the entries in a button field to create icon appearances. This package also supports icon appearances for `dvips` and `dvipsone` when the `aeb_pro` package is used and Acrobat Distiller or `ps2pdf` is used as the PDF creator, but in both cases, Adobe Acrobat must be the primary PDF viewer.¹

3 Utility commands

3.1 Macros based on the `datatool` package

This version (2020/06/05 v1.2) of `icon-appr` attempts create the **AP** in the **Names** dictionary of the PDF catalog. A problem arose when I read from the PDF specification that the entries must be listed *alphabetically*. After a quick search of the internet for L^AT_EX packages that can alphabetize a list, came across a tex.stackexchange.com page, which solved the problem for me. In the lines below, the code from that page is modified to do the task I need it to do.

```

13 \newtoks\IA@IconsAlpha \IA@IconsAlpha={}
14 \let\IA@Icons@empty
15 \let\IA@Icons@pdfmark@empty
16 \let\IA@Icons@pdfmark@Names@empty
17 \newcommand{\sortitem}[2][\relax]{%
18   \DTLnewrow{list}% Create a new entry
19   \ifx#1\relax
20     \DTLnewbentry{list}{sortlabel}{#2}%
21   \else
22     \DTLnewbentry{list}{sortlabel}{#1}%
23   \fi%
24   \DTLnewbentry{list}{description}{#2}%
25 }
26 \newenvironment{sortedlist}{%
27   \DTLifdbexists{list}{\DTLcleardb{list}}{\DTLnewdb{list}}%
28 }{%
29   \DTLsort{sortlabel}{list}% Sort list
30   \DTLforeach*{list}{\theDesc=description}{\theDesc}%
31 }
32 \def\IA@sortitem#1{\sortitem[#1]{\IA@sortitemArgii{#1}}}
33 \def\IA@sortitemArgii#1{\edef\z{\global
34   \IA@IconsAlpha={\the\IA@IconsAlpha (#1) \eq@relRef{\csOf{#1}}}\z}

```

3.2 Other preliminaries

¹This means the newly created PDF must be opened with Acrobat and saved before the file is ready for general use.

```

35 \def\x@namedef#1{\expandafter\xdef\csname #1\endcsname}
36 \def\heightOf#1{\@nameuse{#1heightOf}}
37 \def\widthOf#1{\@nameuse{#1widthOf}}
38 \newif\if@bEmbed \@bEmbedfalse
39 \newif\if@EmbedIconUsed \@EmbedIconUsedfalse
40 \newif\if@EmbedEPSUsed \@EmbedEPSUsedfalse

```

`\csOf{name}` Use `\csOf` to expand a control name.

```

41 \@ifundefined{csOf}{\let\csOf\@nameuse}{}
42 \let\IA@CreateImage@xsp\@empty
43 \let\IA@EndEmbedding@aebpro\relax

```

4 The main commands

```

44 \define@key{IAKVfamily}{name}[]{\def\IAKVfamily@name{#1}}
45 \define@key{IAKVfamily}{hyopts}[]{\def\IAKVfamily@hyopts{#1}}
46 \define@key{IAKVfamily}{cipresp}[]{\def\IAKVfamily@presp{#1}}
47 \define@key{IAKVfamily}{cipostsp}[]{\def\IAKVfamily@postsp{#1}}
48 \let\IAKVfamily@name\@empty
49 \let\IAKVfamily@hyopts\@empty
50 \let\IAKVfamily@presp\@empty
51 \let\IAKVfamily@postsp\@empty

```

4.1 The embedding environment

`embedding` The `embedding` environment encloses are embedding commands (`\embedIcon` and `\embedEPS`).

```

52 \newenvironment{embedding}{\def\IA@mark{[\space]\global\@bEmbedtrue
53 \ifpackageloaded{graphicxsp}{\let\IA@embedEPS@save\embedEPS
54 \let\embedEPS\IA@embedEPS}{\let\embedEPS\IA@embedEPS@null}%
55 }{\global\@bEmbedfalse

```

(2020/06/05) In this, the `\end{embedding}` part of the environment, one or more `\embedIcon` commands have been inserted in the `\begin{embedding}` part of the environment. A list `\IA@Icons` is built, beginning with `\begin{sortedlist}`. Here, we close that environment. Then, if a `dvips->distiller` workflow *is not being used*, we close the `sortedlist` environment, then expand `\IA@Icons`, which should alphabetize the icon names, and leave results in the token register `\IA@IconsAlpha`, which we insert into the **AP** dictionary into the **Names** dictionary of the PDF catalog. The results looks like this (taken from one of my test files):

```
<</AP<</Names[(girl)27 0 R(man)36 0 R(scot)41 0 R]>> >>
```

Note the entries of the **Names** dictionary of the **AP** dictionary are listed in alphabetical order along with their respective indirect reference.

```
56 \g@addto@macro\IA@Icons{\end{sortedlist}}
```

We expand `\IA@Icons` only if not a `pdfmark` workflow, this is were the list of icon names is sorted.

```
57 \ifpdfmarkup\else\expandafter\IA@Icons\fi
```

Write the **AP** dictionary to the **Names** dictionary for each driver.

```

58 \ifluatex
59   \ifx\IA@Icons\@empty\else
60     \pdfextension names{/AP <</Names [\the\IA@IconsAlpha]>>}\fi
61 \else\ifpdf
62   \ifx\IA@Icons\@empty\else
63     \immediate\pdfnames{/AP <</Names [\the\IA@IconsAlpha]>>}\fi
64 \else\ifxetex
65   \ifx\IA@Icons\@empty\else
66     \immediate\@pdfm@mark{obj @iconnames %
67       << /Names [\the\IA@IconsAlpha] >> }%
68     \@pdfm@mark{put @names %
69       << /AP @iconnames >> }\fi
70 \fi\fi\fi
71 \gdef\IA@EndEmbedding{\IA@EndEmbedding@aebpro
72 \IA@CreateImage@xsp}\aftergroup\IA@EndEmbedding
73 }
```

The commands `\embedIcon` and `\embedEPS` are placed inside the embedding environment.

4.2 The `\embedIcon` command

`\embedIcon[(KVPairs)]{(path)}` This is the main embedding command of the package. An example of use is given below, as taken from `icons-appr-exmpl1.tex`.

```

\begin{embedding}
  \embedIcon[name=mani]{graphics/man1.pdf}
  \embedIcon[name=girl]{graphics/girl.pdf}
  \embedIcon[name=scot]{graphics/scot.pdf}
\end{embedding}
```

The `name` key is required for non-pdfmark drivers, its value must consist only of letters (or possibly non-active characters). The name value, say ‘mani’, is made into a control sequence, which may be referred to by `\mani` or `\csOf{mani}`.

The syntax for `dvips/dvipsone` is more complicated, we refer the user to the sample file `icons-appr-pb.tex`.

Initially, we test whether `\embedIcon` is enclosed in the `\bEmbeddeind/\eEmbedding` command pair. If yes, we fork off to any of five versions of `\embedIcon`, internally named `\IA@embedIcon`: (1) one for `luatex`; (2) one for `pdftex`; (3) one for `xelatex`; (4) one for `dvips` with `aeb_pro`; and (5) one for the otherwise case, it does nothing but does avoids stopping the tex engine.

```

74 \newcommand{\embedIcon}{\global\@EmbedIconUsedtrue
75 \if\bEmbed\def\IA@next{\IA@embedIcon}\else
76   \PackageWarning{icon-appr}{\string\embedIcon\space commands must be
77   enclosed\MessageBreak in the embedding environment}%
78   \def\IA@next{\IA@embedIcon@null}\fi
79 \IA@next}
80 \def\IA@handle@name@empty#1{\count0=\aeb@image@cnt
```

```

81 \advance\count0by1\relax\xdef
82 \aeb@image@cnt{\the\count0 }}%
83 \edef\IAKVfamily@name{aebImage\aeb@image@cnt}%
84 \PackageWarning{icon-appr}{%
85 The 'name' key is not specified,\MessageBreak
86 will assign a name of '\IAKVfamily@name'\MessageBreak
87 for the icon #1}}

```

Requirements of package not met. This version makes a necessary definition to avoid stopping the tex engine.

```

88 \newcommand{\IA@embedIcon@null}[2] []{%
89 \begingroup
90 \setkeys*{IAKVfamily}{#1}%
91 \ifx\IAKVfamily@name\empty\IA@handle@name@empty\fi
92 \x@namedef{\IAKVfamily@name widthOf}{Opt}%
93 \x@namedef{\IAKVfamily@name heightOf}{Opt}%
94 \x@namedef{\IAKVfamily@name}{null}%
95 \endgroup}
96 \let\IA@embedEPS@null\IA@embedIcon@null
97 \ifundefined{aeb@image@cnt}{\def\aeb@image@cnt{0}}{}
98 \ifluatex

```

The luatex driver. The two luatex commands `\saveboxresource` and `\lastsavedboxresourceindex` are used.

```

99 \protected\def\pdfnames{\pdfextension names }
100 \newcommand{\IA@embedIcon}[2] []{\begingroup
101 \setkeys*{IAKVfamily}{#1}%
102 \ifx\IAKVfamily@name\empty\IA@handle@name@empty{#2}\fi
103 \toks@={\setbox\@tempboxa\hbox\bgroup\includegraphics}%
104 \edef\x{\the\toks@[ \IAKVfamily@hyopts ]{#2}\egroup}\x
105 \x@namedef{\IAKVfamily@name widthOf}{\the\wd\@tempboxa}%
106 \x@namedef{\IAKVfamily@name heightOf}{\the\ht\@tempboxa}%
107 \immediate\saveboxresource\@tempboxa
108 \x@namedef{\IAKVfamily@name}
109 {\the\lastsavedboxresourceindex}%

```

(2020/06/05) Entry in the icons array

```

110 \ifx\IA@Icons\empty
111 \g@addto@macro\IA@Icons{\begin{sortedlist}}\fi
112 \protected@edef\x{\noexpand\g@addto@macro\noexpand
113 \IA@Icons{\protect\IA@sortitem{\IAKVfamily@name}}}\x
114 \endgroup}
115 \else\ifpdf

```

The pdflatex driver. The pdflatex commands `\pdfxform` and `\pdflastxform` are used.

```

116 \newcommand{\IA@embedIcon}[2] []{\begingroup
117 \setkeys*{IAKVfamily}{#1}%
118 \ifx\IAKVfamily@name\empty\IA@handle@name@empty{#2}\fi
119 \toks@={\setbox\@tempboxa\hbox\bgroup\includegraphics}%
120 \edef\x{\the\toks@[ \IAKVfamily@hyopts ]{#2}\egroup}\x

```

```

121 \x@namedef{\IAKVfamily@name widthOf}{\the\wd\@tempboxa}%
122 \x@namedef{\IAKVfamily@name heightOf}{\the\ht\@tempboxa}%
123 \immediate\pdfxform\@tempboxa
124 \x@namedef{\IAKVfamily@name}{\the\pdflastxform}%
(2020/06/05) Entry in the icons array
125 \ifx\IA@Icons\@empty
126   \g@addto@macro\IA@Icons{\begin{sortedlist}}\fi
127 \protected@edef\x{\noexpand\g@addto@macro\noexpand
128   \IA@Icons{\protect\IA@sortitem{\IAKVfamily@name}}}\x
129 \endgroup}
130 \else\ifxetex

```

The xelatex driver. The xelatex `\specials` `bxobj`, `image`, and `exobj` are used. The `image` syntax does not support the concept of page for a PDF file, consequently, it always reads the first page.

```

131 \newcommand{\IA@embedIcon}[2][\begingroup
132   \setkeys*{\IAKVfamily}{#1}%
133   \ifx\IAKVfamily@name\@empty\IA@handle@name@empty{#2}\fi
134   \toks@={\setbox\@tempboxa\hbox\bgroup\includegraphics}%
135   \edef\x{\the\toks@[{\IAKVfamily\hyopts}{#2}\egroup]}\x
136   \x@namedef{\IAKVfamily@name widthOf}{\the\wd\@tempboxa}%
137   \x@namedef{\IAKVfamily@name heightOf}{\the\ht\@tempboxa}%
138   \x@namedef{\IAKVfamily@name}{@\IAKVfamily@name}%
139   \@pdfm@mark{bxobj @\IAKVfamily@name\space
140     width \the\wd\@tempboxa \space
141     height \the\ht\@tempboxa \space}%
142   \@pdfm@mark{image width \the\wd\@tempboxa \space
143     height \the\ht\@tempboxa \space (#2)}%
144   \@pdfm@mark{exobj}%
(2020/06/05) Entry in the icons array
145 \ifx\IA@Icons\@empty
146   \g@addto@macro\IA@Icons{\begin{sortedlist}}\fi
147 \protected@edef\x{\noexpand\g@addto@macro\noexpand
148   \IA@Icons{\protect\IA@sortitem{\IAKVfamily@name}}}\x
149 \endgroup}
150 \else

```

If not any of the previously discussed drivers, it must a **pdfmark**-type driver.

```

151 \@ifpackageloaded{aeb_pro}{%

```

For success in this case, we require the `aeb_pro` package; Acrobat needs to load and save the newly created PDF, created by either `distiller` or `ps2pdf`. The `aeb_pro` command `\declareImageAndPlacement` is used for this purpose. The command `\IA@EndEmbedding@aebpro` is redefined to input an `execJS` environment, which will get things going.

```

152 \newcommand{\IA@embedIcon}[2][1]{\begingroup
153   \declareImageAndPlacement{path=#2,#1}\endgroup}

```

When `aeb_pro` is loaded and a `pdfmark`-type driver is used, `\embedIcon` uses `\declareImageAndPlacement` from `aeb_pro` (see documentation of that package). JavaScript methods embed the graphics files.

```

154 \def\IA@EndEmbedding@aebpro{\@bEmbedfalse\beginngroup
155 \IfFileExists{\jobname-exec.cut}{}
156 {\immediate\openout\@auxout \jobname-exec.cut
157 \immediate\write\@auxout{\string\begin{execJS}{IAexec}^^J%
158 \string\insertPreDocAssembly^^J%
159 \string\end{execJS}}}%
160 \InputIfFileExists{\jobname-exec.cut}{-}{-}%
161 \endgroup}%
162 }{%

```

The final case, we `\let \IA@embedIcon to \IA@embedIcon@null` to let the document compile. A warning message is written to the log.

```

163 \let\IA@embedIcon\IA@embedIcon@null
164 }
165 \fi\fi\fi

```

4.3 The `\embedEPS` command

`\embedEPS[{KVPairs}]{{path}}` When a `pdfmark`-type driver is being used, `\embedEPS` is `\let` to `\IA@embedEPS`. This command is used to embed EPS files.

```

166 \newcommand\IA@embedEPS[2] []{\ifx\IA@Icons@pdfmark@Names\@empty
167 \global\let\IA@Icons@pdfmark@Names\@gobble\fi
168 \global\@EmbedEPSUsedtrue
169 \beginngroup\let\x\noexpand
170 \setkeys*{IAKVfamily}{#1}%\XKV@rm has remaining keys
171 \ifx\IAKVfamily@name\@empty\IA@handle@name@empty\fi
172 \edef\@tmpexp{\x
173 \IA@embedEPS@save[\XKV@rm]{embed\IAKVfamily@name}{#2}}\@tmpexp
174 \edef\@tmpexp{\x\begin{createImage}{\x
175 \bboxOf{embed\IAKVfamily@name}}{\IAKVfamily@name}
176 \ifx\IAKVfamily@presp\@empty\else\IAKVfamily@presp\space\fi
177 \IA@mark{embed\IAKVfamily@name} /SP pdfmark
178 \ifx\IAKVfamily@postsp\@empty\else\space\IAKVfamily@postsp\fi
179 \x\end{createImage}}%
180 \toks@=\expandafter{\@tmpexp}%
181 \edef\@tmpexp{\x\g@addto@macro\x
182 \IA@CreateImage@xsp{\the\toks@}}\@tmpexp

```

Create a list (`\IA@Icons@pdfmark@Names`) a list of all the names, this is used to create an array of icon names (see the end of the file). Also created is a token list of the icon names, this is employed in the definition of `\IA@makeHiddenIconFlds` at the end of this file.

```

183 \edef\y{\x\g@addto@macro\x
184 \IA@Icons@pdfmark@Names{"\IAKVfamily@name"}}\y
185 \edef\y{\x\g@addto@macro\x
186 \IA@Icons@pdfmark{\IAKVfamily@name}}\y

```

```
187 \endgroup
188 }
```

Some warning messages when things go wrong.

```
189 \def\IA@WarningMsgStr{%
190   A pdfmark driver used - dvips,\MessageBreak
191   something's not right however:
192   \if@EmbedIconUsed
193     \ifpackageloaded{aeb_pro}{\MessageBreak
194       Use of \string\embedIcon\space
195       requires the\MessageBreak aeb_pro package,
196       or possibly use\MessageBreak
197       a non-pdfmark driver}\fi
198   \if@EmbedEPSUsed
199     \ifpackageloaded{graphicxsp}{\MessageBreak
200       \string\embedEPS\space
201       requires the graphicxsp package}\fi
202   }
203 \def\IA@WarningMsg{\PackageWarningNoLine{icon-appr}{\IA@WarningMsgStr}}
204 \ifpdfmarkup
205   \AtBeginDocument{%
206     \if@EmbedIconUsed
207       \ifpackageloaded{aeb_pro}{\ifx\IA@WarningMsg\relax\else
208         \IA@WarningMsg\let\IA@WarningMsg\relax\fi}\fi
209     \if@EmbedEPSUsed
210       \ifpackageloaded{graphicxsp}{\ifx\IA@WarningMsg\relax\else
211         \IA@WarningMsg\let\IA@WarningMsg\relax\fi}\fi}%
212 \else
213   \AtBeginDocument{\if@EmbedEPSUsed
214     \PackageWarningNoLine{icon-appr}{The use of \string\embedEPS\space
215     not allowed\MessageBreak
216     with \ifluatex lualatex\else\ifpdf pdflatex\else xetex\fi\fi}
217   \fi}%
218 \fi
```

`\IA@makeHiddenIconFlds` There is a final case of the workflow, when `\embedEPS` is used instead of `\embedIcon`. For **pdfmark**, the user has Acrobat, I'm assuming, and is not using `ps2pdf` without Acrobat. Here, we create a series of hidden `\pushButtons` fields each referencing one of the EPS embedded with `\embedEPS`; the creation of these fields is encapsulated into the `\IA@makeHiddenIconFlds`.

```
219 \def\IA@makeHiddenIconFlds{\if@EmbedEPSUsed
220   \edef\x{\noexpand\@tfor\noexpand\iName:=\IA@Icons@pdfmark}\x\do{%
221     \smash{\rlap{\pushButton[BC]{BG}{F\FHidden\TP{1}\S{S}
222       \I{\csOf{\iName}}]{IAhidden.\iName}{Obp}{Obp}}}%
223   }%
224   \fi
225 }
```

Insert `\IA@makdHiddenIconFlds` at the beginning of the document.

```
226 \AtBeginDocument{\IA@makeHiddenIconFlds}
```

Finally, a document JavaScript is inserted into the document that gets each of the fields created by `\IA@makeHiddenIconFlds`, and uses `Doc.addIcon()` and `Field.buttonGetIcon()` to “register” these icons. We then delete the fields after we are finished with them. `\IA@Icons@pdfmark@Names` will be either empty (`\embedEPS` is not used) or expands to a list of icon names, for each use of `\embedEPS`.

```
227 \ifpdfmarkup
228 \begin{insDLJS}{aicons}{icon-appr: Add icons to Catalog > Names > AP}
229 var aIconNames= new Array(\IA@Icons@pdfmark@Names);
230 for (i=0; i< aIconNames.length; i++) {
231   var f=this.getField("IAhidden."+aIconNames[i]);
232   if (f!=null) {
233     try{ this.addIcon(aIconNames[i],f.buttonGetIcon());
234       this.removeField("IAhidden."+aIconNames[i]); }catch(e){};
235   }
236 }
237 \end{insDLJS}
238 \fi
239 \end{package}
```

5 Index

Numbers written in *italic* refer to the page where the corresponding entry is described; numbers underlined refer to the code line of the definition; numbers in *roman* refer to the code lines where the entry is used.

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