

The `fancytooltips` package^{*†}

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1 Introduction

The package `fancytooltips` is a package for \LaTeX . The pdf can be created by `pdflatex` or by `latex + dvips + AdobeDistiller`¹ + Adobe Acrobat². It allows to create tooltips in a similar way like `cooltooltips` package, but the tooltip is a page from another PDF file. In this way you can use mathematics, pictures and animations in your tooltips. The resulting PDF file can be used also with free Adobe Reader.

The tooltips are activated by clicking the active area on the screen and deactivated after closing page or by moving mouse outside the link. You can try the links [here](#) (Einstein's formula) and also [here](#) (animation – numbers from 1 to 6). You have to use the free Adobe Reader or nonfree Adobe Acrobat to see the effect (`xpdf`, `evince` and others fail to work with JavaScripts). For more examples how the presentation may look like see the `examples` subdirectory.

Similar functionality can be achieved using `pdfcomment` (smaller size of the resulting PDF, but restricted to plain text), `ocgtools` (works with layers, only `pdflatex` is supported) and `AcroTeX` (works with layers, only `latex + dvips + Adobe Distiller + Adobe Acrobat` are supported). All these “similar” packages allow to write the text for the tooltips and the text for the main document in one file. In contrast to this approach, `fancytooltips` package makes use of an external file. However, if you prefer to write both tooltips in one file, you can preprocess your file using `preview` package and extract tooltips automatically, as shown in the `examples/fancy-preview` directory.

The buttons are created using `eforms.sty` which is a part of AcroTeX bundle.

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¹not free `ps2pdf`

²not free Adobe Reader.

2 Usage

2.1 The file with tooltips

The file with tooltips is an ordinary pdf file, one tooltip per page, tooltips should be in the top right corner at the page, in a colored box and the rest of the page should be transparent. If you consider to use `movetips` option (see below), then every page should have the dimensions equal to the dimensions of the colored box with tooltip³. We also provide simple cross referencing mechanism to refer to the tooltips. If the pdf file is created by \LaTeX , you can define keywords to refer to the pages using `\keytip` command. Simply put `\usepackage[createtips]{fancytooltips}` into preamble and write `\keytip{foo}` in document. This writes information about keyword `foo` and the pagenumber into file `\jobname.tips`.

2.2 The file with presentation – pdf \LaTeX users

In the file with presentation, the user is responsible

- input either `color` or `xcolor` package in the preamble
- \LaTeX the file two times (we write some macros into `aux` file).

This is not comfortable for the user, but everybody uses different set of packages and from this reason, this part is left to the user. (And among others, the `color` or `xcolor` package is probably inputted by the package which is used to build the presentation.)

<code>filename option</code>	To input the tooltips from file <code>foo.pdf</code> call the package with <code>filename</code> option: <code>\usepackage[filename=foo]{fancytooltips}</code> .
<code>movetips option</code>	By default, tooltip appears in the top right corner of the page (use View-PageLayout-Single Page in your Adobe Reader, please). If the option <code>movetips</code> is used, then tooltip appears close to the mouse pointer. More precisely, tooltip appears with left down corner at the mouse position, if there is enough place. If not, tooltip appears with right down corner at the mouse position. Finally, the tooltip is shifted down to fit the page, if necessary ⁴ .
<code>mouseover option</code>	If you use <code>mouseover</code> option, then tooltip appears if you move the mouse pointer to the active area (no clicking is necessary).
<code>inactive option</code>	This option makes the package inactive.
<code>active option</code>	This option forces the package active even if <code>inactive</code> option is loaded.
<code>debug option</code>	Prints two alerts reporting success or problems when opening PDF file in Adobe Acrobat (Adobe Reader). Use this option to find possible source of problems. See also the section Troubleshooting ... in this manual.
<code>\tooltip</code>	The user can put the tooltip into her or his presentation using the com-

³Look at the files `tooltipy.tex` and `tooltipy.pdf` from `examples` subdirectory for a simple example how to meet this condition under pdf \LaTeX

⁴This option works in this way if every page of the file with tooltips has dimensions of the box with tooltip. See the `examples` subdirectory.

	mand <code>\tooltip{<stuff>}{<keyword-or-pagenu- ber>}</code> where <code><stuff></code> is the printed text in <code><tooltipcolor></code> color and <code><key- word-or-pagenu-ber></code> is either the page- number of the tooltip in the external file or the keyword defined by <code>\keytip</code> command and stored in <code>\TooltipFilename.tips</code> file, where <code>\TooltipFilename</code> is set automatically from the <code>filename</code> option. The printed text <code><stuff></code> is fol- lowed by <code>\TooltipExtratext</code> command. The default value is small blue soap, as you have seen in the second paragraph of this documentation. There is a package option <code>noextratext</code> which defines <code>\TooltipExtratext</code> to be empty. If <code>{<keyword-or-pagenu-ber>}</code> is not recognized as valid keyword for tooltips,
<code>\TooltipExtratext</code>	
<code>noextratext</code> option	
<code>\tooltip*</code>	The text <code>{<stuff>}</code> is inserted in <code>\hbox</code> by <code>\tooltip</code> . With starred version of the <code>\tooltip</code> macro the text <code>{<stuff>}</code> is not inserted into the box and the active button does not cover the text <code>{<stuff>}</code> , but covers the mark produced by <code>\TooltipExtratext</code> .
<code>\tooltipanim</code>	The user can put a series (animation) of tooltips into the presentation by using <code>\tooltipanim{<stuff>}{<start>}{<end>}</code> command, where <code><start></code> and <code><end></code> are keywords defined by <code>\keytip</code> command or page numbers. The delay between two frames is <code>\delayinterval</code> milliseconds. The default value is 200, you can change it by command <code>\def\delayinterval{100}</code> .
<code>\delayinterval</code>	
<code>\FancyHook</code>	Redefines <code>\ref</code> and <code>\eqref</code> commands to work with preview, see the demo files in <code>example/fancy-preview</code> directory.
<code>\TooltipRefmark</code>	Extra text added to <code>\ref</code> and <code>\eqref</code> commands with previews, see the demo files in <code>example/fancy-preview</code> directory. The default value is the same as for <code>\TooltipExtratext</code> .

2.3 Changes for dvips users

`pages` option dvips users have to specify option `dvips` in `fancytooltips` package. They have to use also a `pages` option with the number of pages in the PDF file with tooltips. You have to call the package by something like this:

```
\usepackage[dvips,filename=tooltipy,pages=27]{fancytooltips}
```

You have to `latex` (two times) and `dvips` your file first. This produces `filename.ps` and `Tooltipsdljs.fdf` files. Distill the `filename.ps` file into `filename.pdf` and open this file by Adobe Acrobat Professional – this imports macros from `Tooltipsdljs.fdf` file. In Acrobat’s JavaScript console (open by `Crtl+J`) run (using `Ctrl+Enter`) the command `ImportTooltips()`; which is defined for the document. This command inserts invisible buttons on the first page, imports icons (the file with icons specified as `<filename>` parameter when loading `fancytooltips` must be in working directory) and returns 1. Then save the file under another name.

3 Troubleshooting and known problems

The source code is in Mercurial repository at <http://bitbucket.org/robert.marik/fancytooltips/>. You can also report problems and issues in the forum at this site.

- The package works only with the last `eforms.sty`, version 2006/10/03 v1.0a. You can download this version from www.arotex.net site.
- If the graphics included by `\TooltipExtratext` and `\TooltipRefmark` has colors with custom opacity, Adobe Acrobat Pro sometimes renders the pictures bad. No problems of this type have been observed with Adobe Reader.
- For **dvips** users: In some cases the file `Tooltipsdljs.fdf` is not imported automatically (probably some setting in Adobe Acrobat). In this case you do not see any message even if you use `debug` option. You have troubles of this type if you see in the Javascript console (Ctrl+J) error messages like “`aebTrustedFunctions is not defined 3:Page:Open CloseTooltips is not defined 1:Page:Open`”. In this case you have to import the file `Tooltipsdljs.fdf` manually from menu “Form”. Then go to the JavaScript console and run `ImportTooltips();` command.

Follow the points below if you want to find the source of your problems.

- For dvips users it is a good idea to check that AcroTeX is properly installed. Do the demo files from AcroTeX work for you?
- Try to use `debug` option, prepare the PDF file and open it in Adobe Acrobat or Adobe Reader.
 - You should see two messages when opening the file. If not, the Javascript do not work in your document (are not inserted properly).
 - Both messages should report success for pdflatex users. For dvips users one of the message should report error and if you run `ImportTooltips();` command in Javascript console, you should see a message in Javascript console which confirms that the pictures from external PDF file have been imported. If you save the PDF file and open again, both messages should report success.

Change History

v1.0	General: Initial version 1	”ikona.pagenumber”, new option <code>movetips</code> , tooltip appears on the current page only and, as a consequence, animations are faster. 1
v1.1	General: Clener code, better documentation, fix for bug with <code>delayinterval</code> macro, support for dvips and Distiller users. 1	
v1.2	General: Better support for dvips users, buttons for icons are created automatically using <code>eso-pic</code> package and have the name	v1.3 General: Fixed bug which appears in dvips route. Improved documentation – added a note about the required version of <code>eforms.sty</code> 1

v1.4	General: Added support for presentations (like <code>pause</code> command for <code>texpower</code>). 1	v1.6	General: Added options <code>debug</code> , <code>active</code> and <code>inactive</code> , added an example with automatical previews for equations and floats. Added handling of <code>this.dirty</code> and <code>app.focusRect</code> . Changed the name of the file with tooltips. Added starred version of <code>tooltip</code> command. 1
v1.5	General: Handling number of pages via aux file (fixes some problems issued by previous modification and page break near tooltip). . . 1		

4 Implementation

```

1 \*package)
2 \RequirePackage{everyshi}
3 \RequirePackage{graphicx}
4 \RequirePackage{xkeyval}
5 \RequirePackage{eso-pic}
6
7 \newif\ifcreatetips\createtipsfalse
8 \DeclareOptionX{createtips}{\createtipstrue}
9
10 \newif\ifTooltip@usepdftex\Tooltip@usepdftexttrue
11 \DeclareOptionX{dvips}{\Tooltip@usepdftextfalse}
12
13 \newif\ifextratext\extratexttrue
14 \DeclareOptionX{noextratext}{\extratextfalse}
15
16 \newif\ifmovetips\movetipsfalse
17 \DeclareOptionX{movetips}{\movetipstrue}
18
19 \newif\ifmouseover\mouseoverfalse
20 \DeclareOptionX{mouseover}{\mouseovertrue}
21
22 \newif\if@fancytooltips@inactive\@fancytooltips@inactivefalse
23 \DeclareOptionX{inactive}{\@fancytooltips@inactivetrue}
24
25 \newif\if@fancytooltips@active\@fancytooltips@activefalse
26 \DeclareOptionX{active}{\@fancytooltips@activetrue}
27
28 \DeclareOptionX{filename}{\xdef\TooltipFilename{#1}}
29 \DeclareOptionX{pages}{\xdef\TooltipPages{#1}}
30
31 \def\fancytooltipsdebugmsg{}
32 \DeclareOptionX{debug}{\def \fancytooltipsdebugmsg
33 {
34 if (this.getField("ikona") == null)
35   {app.alert("No buttons for placing tooltips are available. Contact the author. The file may
36   else

```

```

37 {app.alert("Buttons for placing tooltips are available. Congratulations! Hope everything will
38 if (this.getField("animtip") == null)
39 {app.alert("No hidden buttons containing tooltips available. The interactive features will no
40 else
41 {app.alert("Hidden buttons containing tooltips are available. Congratulations! Hope everythin
42 }}
43
44 \ProcessOptionsX
45
46 \newdimen\buttontipwidth
47 \newdimen\buttontipheight
48 \newdimen\fancy@a
49 \newdimen\fancy@b
50
51 \if@fancytooltips@active\@fancytooltips@inactivefalse\fi
52
53 \if@fancytooltips@inactive
54 \newcommand{\tooltip}{\@ifstar\tooltip@Star\tooltip@NoStar}%
55 \newcommand{\tooltip@Star}[2]{#1}%
56 \newcommand{\tooltip@NoStar}[2]{#1}%
57
58 \newcommand{\tooltipanim}{\@ifstar\tooltipanim@Star\tooltipanim@NoStar}%
59 \newcommand{\tooltipanim@Star}[2]{#1}%
60 \newcommand{\tooltipanim@NoStar}[2]{#1}%
61 \def\keytip#1{%
62 \def\FancyHook{%
63 \def\TooltipPage#1#2{%
64 \let\TooltipExtratext\relax
65 \let\TooltipRefmark\relax
66 \PackageWarning{fancytooltips}{Fancytooltips inactive}%
67 \expandafter\endinput\fi
68

```

Each `\ref` command has associated a number and writes new label into aux file. If the target page for the ref is different from the page with this `\ref` command, the corresponding tooltip is inserted.

```

69 \newcount\fancycheckcount\fancycheckcount=0
70 \def\fancy@second#1#2#3#4{#2}
71
72 \def\FancyHook{
73 \global\let\oldref\ref
74 \gdef\ref##1{\oldref{##1}\global\advance\fancycheckcount by 1\relax
75 \edef\templabel{fancyanchorref:\the\fancycheckcount}%
76 \expandafter\label\expandafter{\templabel}%
77 \expandafter\ifx \csname FancyToolTip@##1\endcsname\relax \else\hbox to 0 pt{%
78 \expandafter\ifx \csname r@##1\endcsname \relax\else
79 \edef\temp{\csname r@##1\endcsname}%
80 \expandafter\edef\expandafter\fan@tempa\expandafter{\expandafter\fancy@second\temp}%
81 \fi
82 \expandafter\ifx \csname r@fancyanchorref:\the\fancycheckcount\endcsname \relax\else

```

```

83 \edef\fan@ttemp{r@fancyanchorref:\the\fancycheckcount}%
84 \expandafter\let\expandafter\fan@temp@w\csname \fan@ttemp\endcsname
85 \edef\fan@temp@ww{\expandafter\fancy@second\fan@temp@w}%
86 \fi
87 \ifx\fan@temp@ww\undefined\else
88 \fi
89 \ifx\fan@tempa\fan@temp@ww\else\smash{%
90 \let\TooltipExtratext\relax\tooltip{\strut\TooltipRemark}{\#1}}%
91 \fi
92 \hss}%
93 \fi}
94 \ifTooltip@usepdftex
95 \def\TooltipRemark{\hbox {\raisebox{0.4em}{\includegraphics[width=0.7em]%
96 {fancytipmark.pdf}}}}%
97 \else
98 \def\TooltipRemark{\hbox {\raisebox{0.4em}{\includegraphics[width=0.7em]%
99 {fancytipmark.eps}}}}%
100 \fi%\ifTooltip@usepdftex
101 }
102
103 \ifcreatetips
This part (three lines) is processed if the option createtips is used. In the
opposite case we process the second part, up to the end of the package.
104 \newwrite\tipfile
105 \immediate\openout\tipfile \jobname.tips
106 \def\keytip#1{\write\tipfile{\string\tooltipname{#1}{\arabic{page}}}}
107 \expandafter\endinput\fi
This part is processed if the option createtips is not used. We define macros
which put the hidden button with the name ikona.n in the background of the page
n, if one of the commands \tooltip or \tooltipan has been used on this page.
Javascripts defined by \tooltip and \tooltipan commands then unhide this
button and show the corresponding picture.
108
109 \ifx\TooltipFilename\undefined
110 \PackageWarning{fancytooltips}{** The filename with tooltips is not given. **}
111 \fi
112
113 \ifTooltip@usepdftex
114 \RequirePackage[pdftex]{eforms}
115 \def\TooltipExtratext{\hbox{\raisebox{0.4em}{\includegraphics[width=0.7em]%
116 {fancytipmark.pdf}}}}
117 \else
118 \RequirePackage[dvips]{eforms}
119 \def\TooltipExtratext{\hbox{\raisebox{0.4em}{\includegraphics[width=0.7em]%
120 {fancytipmark.eps}}}}
121 \fi%\ifTooltip@usepdftex
122 \ifextratext\else\let\TooltipExtratext\relax\fi
123
124 \AtBeginDocument{

```

```

125 \global\buttontipwidth=\paperwidth
126 \global\buttontipheight=\paperheight
127 }
128
129 \ifTooltip@usepdftex
130 \def\frametip@{%
131   \pdfstartlink user{%
132     /Subtype /Widget
133     /F 6
134     /T (ikona.\thepage)
135     /FT /Btn
136     /Ff 65536
137     /H /N
138     /BS << /W 1 /S /S >>
139     /MK << /TP 1 /IF <</A[1.0 1.0]/SW /B>> >>
140   }%
141   \vbox to \buttontipheight {\vss\hbox to \buttontipwidth{\hss}}\pdfendlink}
142 \else

```

For dvips users we use the macros from eqxerquiz.sty package.

```

143 \def\everyeqIcon#1{\def\every@eqIcon{#1}}
144 \def\every@eqIcon{}
145 \newcommand\eqIconFTT[4] []
146 {%
147   \push@@Button{#1}{#2}{#3}{#4}{}\{\eq@setButtonProps\eq@Button@driver}%
148   {\eqIconDefaults\every@ButtonField\every@eqIcon}%
149 }
150 \def\eqIconDefaults
151 {%
152   \rawPDF{\S{}}\mkIns{/TP 1 /IF<</A[1.0 1.0]/SW/B>>}\R{0}
153   \CA{}\RC{}\AC{}\BC{}\BG{}\H{B}
154   \textColor{0 g}\Ff{\FfReadOnly}
155 }
156 \def\frametip@{\eqIconFTT[\BC{}\BG{}\F{\FHHidden}]}%
157   {\ikona.\thepage}{\paperwidth}{\paperheight}}%
158 \fi%\ifTooltip@usepdftex
159
160 \def\frametip{%
161   \expandafter\ifx \cname TooltipPage\thepage\endcname\relax
162   \else
163     \setbox0=\hbox{\frametip@}%
164     \hbox{\raise \dp0 \box0}
165     \fi}%
166 \AddToShipoutPicture{\hbox to 0 pt{\frametip\hss}}

```

In the macros `\tooltip` and `\tooltipanim` we print the text into box with zero dimensions and then we build a button which covers this text and has an associated JavaScript action. The important part is the `\PushButton` macro. You can adjust these macros or write similar macros which do what you need.

```

167 \definecolor{tooltipcolor}{rgb}{0,0,1}
168

```

```

169 \newcount\tooltip@count
170 \newtoks\tooltip@toks
171 \newtoks\tooltip@pagetoks
172 \tooltip@pagetoks={\thepage}
173 \def\tooltippage{}
174
175 \def\TooltipPage#1#2{%
176 \expandafter\gdef\csname TooltipPage#2\endcsname{#2}%
177 \expandafter\gdef\csname Tooltipcount2page#1\endcsname{#2}%
178 }

```

We use the hack for Adobe Acrobat suggested by DPS and Jorg at [http://www.acrotex.net/forum/showthre](http://www.acrotex.net/forum/showthread.php?p=1)

```

179
180 \def\fancy@JS#1{\JS{var DirtyBeforeTooltip=this.dirty; #1
181   this.dirty=DirtyBeforeTooltip;}}
182
183 \newcommand{\tooltip}{\ifstar
184   \tooltip@Star%
185   \tooltip@NoStar%
186 }
187
188 \newcommand{\tooltip@Star}[2]{\color{tooltipcolor}#1}%
189   {\let\SaveTooltipExtratext\TooltipExtratext
190   \let\TooltipExtratext\relax
191   \hbox to 0 pt{\tooltip@NoStar{\strut\SaveTooltipExtratext}{#2}\hss}}
192
193 \newcommand{\tooltip@NoStar}[2]{%
194   \global\advance\tooltip@count by 1%
195   \edef\act{\write\auxout{\noexpandstring\noexpand\TooltipPage{\the\tooltip@count}{\the\toolt
196   \edef\tooltippage{\csname Tooltipcount2page\the\tooltip@count \endcsname}%
197   \checkTipNumber{#2}\edef\TipNumber{\FindTipNumber{#2}}%
198   \def\tempfancytooltips{}%
199   \ifmovetips\edef\tempfancytooltips{nastav(\TipNumber,\tooltippage)};\fi
200   \leavevmode
201   \setbox0=\hbox{\color{tooltipcolor}{#1}}\hbox to 0 pt{\copy0\smash{\TooltipExtratext}\hss}%
202   \fancy@a=\ht0
203   \advance\fancy@a by \dp 0
204   \fancy@b=0.5\fancy@a
205   \advance\fancy@b by -\dp0
206   \advance\fancy@b by -2bp
207   \lower-\fancy@b\vtop{\hbox{%
208   \pushButton[\BC-]{BG-}{S-}{AA{\AAMouseExit{\fancy@JS{CloseTooltips();}}}%
209   \ifmouseover
210   \AAMouseEnter{\fancy@JS{this.getField("ikona."+(\tooltippage)).hidden=false;
211     try {app.clearInterval(animace);}catch (e) {}
212     \tempfancytooltips
213     zobraz(\TipNumber,\tooltippage);
214   }}
215   \fi}
216   \A{\fancy@JS{this.getField("ikona."+(\tooltippage)).hidden=false;

```

```

217     try {app.clearInterval(animace);}catch (e) {}
218     \tempfancytooltips
219     zobraz(\TipNumber,\tooltippage);
220   }]}
221   {TooltipField}{\wd0}{\fancy@a}}}}
222
223 \def\delayinterval{200}
224
225 \newcommand{\tooltipanim}{\@ifstar
226     \tooltipanim@Star%
227     \tooltipanim@NoStar%
228 }
229
230 \newcommand{\tooltipanim@Star}[3]{\color{tooltipcolor}#1}%
231   {\let\SaveTooltipExtratext\TooltipExtratext
232   \let\TooltipExtratext\relax
233   \hbox to 0 pt{\tooltipanim@NoStar{\strut\SaveTooltipExtratext}{#2}{#3}\hss}}}
234
235 \newcommand{\tooltipanim@NoStar}[3]{%
236   \global\advance\tooltip@count by 1%
237   \edef\act{\write\@auxout{\noexpand\string\noexpand\TooltipPage{\the\tooltip@count}{\the\toolt
238   \edef\tooltippage{\csname Tooltipcount2page\the\tooltip@count \endcsname}%
239   \checkTipNumber{#2}\edef\TipNumberA{\FindTipNumber{#2}}%
240   \checkTipNumber{#3}\edef\TipNumberB{\FindTipNumber{#3}}%
241   \leavevmode
242   \setbox0=\hbox{\color{tooltipcolor}{#1}}\hbox to 0 pt{\copy0\smash{\TooltipExtratext}\hss}%
243   \def\tempfancytooltips{}%
244   \ifmovetips\edef\tempfancytooltips{nastav(\TipNumberA,\tooltippage);} \fi
245   \fancy@a=\ht0
246   \advance\fancy@a by \dp 0
247   \fancy@b=0.5\fancy@a
248   \advance\fancy@b by -\dp0
249   \advance\fancy@b by -2bp
250   \lower-\fancy@b\vtop{\hbox{%
251   \pushButton[\BC{} \BG{} \S{} \AA{\AAMouseExit{\fancy@JS{CloseTooltips()}}}}
252   \ifmouseover
253   \AAMouseEnter{\fancy@JS{
254     try {app.clearInterval(animace);}catch (e) {}
255     var cislo=\TipNumberA;
256     \tempfancytooltips
257     function animuj()
258     {
259       var DirtyBeforeTooltipanim=this.dirty;
260       if (cislo<\TipNumberB) cislo=cislo+1;
261       this.getField('ikona.'+(\tooltippage)).buttonSetIcon(this.getField("animtiph."+cislo).b
262       this.dirty=DirtyBeforeTooltipanim;
263     };
264     this.getField('ikona.'+(\tooltippage)).buttonSetIcon(this.getField("animtiph."+\TipNumber
265     this.getField("ikona."+(\tooltippage)).hidden=false;
266     animace=app.setInterval('animuj();', \delayinterval);

```

```

267     }}
268 \fi}
269 \A{\fancy@JS{
270     try {app.clearInterval(animace);}catch (e) {}
271     var cislo=\TipNumberA;
272     \tempfancytooltips
273     function animuj()
274     {
275         var DirtyBeforeTooltipanim=this.dirty;
276         if (cislo<\TipNumberB) cislo=cislo+1;
277         this.getField('ikona.'+(\tooltippage)).buttonSetIcon(this.getField("animtiph."+cislo).b
278         this.dirty=DirtyBeforeTooltipanim;
279     };
280     this.getField('ikona.'+(\tooltippage)).buttonSetIcon(this.getField("animtiph."+TipNumber
281     this.getField("ikona."+(\tooltippage)).hidden=false;
282     animace=app.setInterval('animuj();', \delayinterval);
283     }}
284 ]{TooltipField}{\wd0}{\fancy@a}}}}

```

This code closes tooltip if the page is closed.

```

285 \ifTooltip@usepdftex
286 \def\TooltipPageopencloseJS{ \global\pdfpageattr{%
287     /AA << /O << /S /JavaScript /JS (
288     var DirtyBeforeCloseTooltip=this.dirty; CloseTooltips(); this.dirty=DirtyBeforeCloseTooltip
289 )
290 \pdfximage{\TooltipFilename.pdf}%
291 \edef\TooltipPages{\the\pdflastximagepages}%
292 \else
293 \def\TooltipPageopencloseJS{
294 \literalps@out{%
295     [ {ThisPage} << /AA <<
296     /O << /S /JavaScript /JS (var DirtyBeforeCloseTooltip=this.dirty; CloseTooltips(); this.dir
297     >> >> /PUT pdfmark}}
298 \OpenAction{/S /JavaScript /JS (var DirtyBeforeCloseTooltip=this.dirty; CloseTooltips(); this.d
299 \fi%\ifTooltip@usepdftex
300 \EveryShipout{\TooltipPageopencloseJS}%
301
302 \ifTooltip@usepdftex
303 \begin{insDLJS}[fancyTooltipsLoaded]{Tooltipsdljs}{DLJS for Tooltips}
304 \fancytooltipsdebugmsg
305
306 var animace;
307 var fancyTooltipsLoaded = true;
308
309 function CloseTooltips()
310 {
311     try {this.getField("ikona").hidden=true;}catch (e) {}
312     try {app.clearInterval(animace);}catch (e) {}
313 }
314

```

```

315 function nastav(cislo, strana)
316 {
317     var f=this.getField("ikona."+strana);
318     var g=this.getField("animtiph."+cislo);
319     var sourf=f.rect;
320     var sourg=g.rect;
321     if ((mouseX+sourg[2]-sourg[0])<sourf[2])
322     var percX=100*(mouseX-sourf[0])/((sourf[2]-sourf[0])-(sourg[2]-sourg[0]));
323     else
324     var percX=100*(mouseX-sourf[0]-(sourg[2]-sourg[0]))/((sourf[2]-sourf[0])-(sourg[2]-sourg[0]));
325     var percY=100*(mouseY-sourf[3])/((sourf[1]-sourf[3])-(sourg[1]-sourg[3]));
326     if (percX>100) percX=100;
327     if (percY>100) percY=100;
328     if (percX<0) percX=0;
329     if (percY<0) percY=0;
330     f.buttonAlignX=percX;
331     f.buttonAlignY=percY;
332 }
333
334 function zobraz(cislo, strana)
335 {
336     var f=this.getField("ikona."+strana);
337     var g=this.getField("animtiph."+cislo);
338     f.hidden=false;
339     f.buttonSetIcon(g.buttonGetIcon());
340 }
341
342 this.dirty=false;
343 app.focusRect = false;
344 \end{insDLJS}
345 \else
346 \begin{insDLJS}[fancyTooltipsLoaded]{Tooltipsdljs}{DLJS for Tooltips}
347 var animace;
348 var fancyTooltipsLoaded = true;
349
350 \fancytooltipsdebugmsg
351
352 function CloseTooltips()
353 {
354     try {this.getField("ikona").hidden=true;}catch (e) {}
355     try {app.clearInterval(animace);}catch (e) {}
356 }
357
358 function ImportTooltips()
359 {
360     console.println("importing pictures");
361     for (var i=1;i<=\TooltipPages;i++)
362     {
363         this.insertPages(this.numPages-1, "\TooltipFilename.pdf", (i-1), (i-1));
364         var rozm=this.getPageBox("Crop", this.numPages-1);

```

```

365     this.deletePages(this.numPages-1);
366     var p=this.addField("animtiph."+i,"button",0,rozm);
367     p.buttonPosition=position.iconOnly;
368     p.hidden=true;
369     this.getField("animtiph."+i).buttonImportIcon("\TooltipFilename.pdf",(i-1));
370 }
371 console.println("Imported \TooltipPages pictures, save the PDF file.");
372 return(1);
373 }
374
375 function nastav(cislo,strana)
376 {
377     var f=this.getField("ikona."+strana);
378     var g=this.getField("animtiph."+cislo);
379     var sourf=f.rect;
380     var sourg=g.rect;
381     if ((mouseX+sourg[2]-sourg[0])<sourf[2])
382     var percX=100*(mouseX-sourf[0])/((sourf[2]-sourf[0])-(sourg[2]-sourg[0]));
383     else
384     var percX=100*(mouseX-sourf[0]-(sourg[2]-sourg[0]))/((sourf[2]-sourf[0])-(sourg[2]-sourg[0]));
385     var percY=100*(mouseY-sourf[3])/((sourf[1]-sourf[3])-(sourg[1]-sourg[3]));
386     if (percX>100) percX=100;
387     if (percY>100) percY=100;
388     if (percX<0) percX=0;
389     if (percY<0) percY=0;
390     f.buttonAlignX=percX;
391     f.buttonAlignY=percY;
392 }
393
394 function zobraz(cislo,strana)
395 {
396     var f=this.getField("ikona."+strana);
397     var g=this.getField("animtiph."+cislo);
398     f.hidden=false;
399     f.buttonSetIcon(g.buttonGetIcon());
400 }
401
402 this.dirty=false;
403 app.focusRect = false;
404 \end{insDLJS}
405 \fi

```

A cycle is used to create hidden buttons. Each button has associated a page from the file with tooltips as icon. These icons are invoked by JavaScripts defined in `\tooltip` and `\tooltipan` macros.

```

406 \newcount\tooltip@count
407 \ifTooltip@usepdftex
408 \newcommand*\TooltipHidden}{%
409 \count@=0
410 \@whilenum\count@<\TooltipPages \do{%

```

```

411 \tooltip@count=\count@
412 \advance \tooltip@count by 1%
413 \bgroup
414 \immediate\pdfximage
415 page \the\tooltip@count{\TooltipFilename.pdf}%
416 \mbox{\leavevmode
417 \vbox to 0 pt{\vss\hbox to 0 pt{\pdfstartlink user{%
418 /Subtype /Widget
419 /F 6
420 /T (anintiph.\the\tooltip@count)
421 /FT /Btn
422 /Ff 65536
423 /H /N
424 /BS << /W 1 /S /S >>
425 /MK <<
426 /TP 1
427 /I \the\pdflastximage\space 0 R
428 /IF << /SW /A >>
429 >>
430 }%
431 \phantom{\pdfrefximage \pdflastximage}%
432 \pdfendlink\hss}}}%
433 \egroup
434 \advance\count@\@ne}%
435 }
436 \AddToShipoutPicture*{\hbox to 0 pt{\TooltipHidden}}
437 \else
438 \let\TooltipHidden\relax
439 \fi

The keywords for the tooltips can be stored in the file \TooltipFilename.tips.
The topics in this file are created by \keytip macro (see the first part of the code).
440 \AtBeginDocument{\IfFileExists{\TooltipFilename.tips}%
441 {\input{\TooltipFilename.tips}
442 \PackageInfo{fancytooltips}{Inputting \TooltipFilename.tips.}}%
443 {\PackageWarning{fancytooltips}{No file \TooltipFilename.tips!
444 Your keywords for tooltips will not work!}}}
445
446 \def\tooltipname#1#2{\expandafter\xdef\csname FancyToolTip@#1\endcsname{#2}}
447
448 \def\FindTipNumber#1{\expandafter\ifx \csname FancyToolTip@#1\endcsname\relax
449 #1\else\csname FancyToolTip@#1\endcsname\fi}
450
451 \def\checkTipNumber#1{\expandafter\ifx
452 \csname FancyToolTip@#1\endcsname\relax \PackageWarning{fancytooltips}{No
453 framenummer is assigned to keyword #1. I assume that #1 is the
454 number of the frame.}%
455 \fi}
456
457 </package>

```