

# grayhints: Create gray hints in text fields

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1 %<\*package>

## 1 Description

We often see in HTML pages or compiled executable applications, form fields (text fields, input fields) that require user input. The untouched field has text within it that informs the user of the nature of the data to be entered into the field. This ‘grayed hint’ immediately disappears when the user focuses the cursor on the field. Lest I be accused of being too obtuse, we illustrate with an example or two.

Of course, the usual tool tips may also be provided.

It is not natural for Adobe form fields to do this, it takes a lot of support code for it to work properly; the Keystroke, Format, OnFocus, OnBlur, and Calculate events are needed. The verbatim listing of the first example field above is,

```
\textField[\textColor{\matchGray}
    \TU{Enter your first name so I can get to know you better}
    \AA{\AAFormat{\FmtToGray{First Name}}
    \AAKeystroke{\KeyToGray}
```

```

\AAOnFocus{\JS{\FocusToBlack}}
\AAOnBlur{\JS{\BlurToBlack}}
\AACalculate{\CalcToGray} %<- required if using PDF-XChange Editor
}] {NameFirst}{2in}{11bp}

```

Code snippets are inserted into the Keystroke, Format, OnFocus, OnBlur, and Calculate events.

**Demo files:** Four sample files are provided: `gh-eforms.tex`, `gh-hyperref.tex`, `gh-fmts-eforms.tex`, and `gh-fmts-hyperref.tex`.

## 2 Documentation and Code

The `eforms` package is preferred, but you can use the form field macros of `hyperref`. Any unrecognized options specified for the `grayhints` package are passed on to `insdcljs`. If the document author does not want to use `eforms`, he/she can pass the option `usehyforms` to use the form fields of `hyperref`, in this case `insdcljs` is required. For the last option, `nodljs` is for users of `hyperref` forms who do not want to use `insdcljs`. In the latter case, the option `usehyforms` should not be used for that will include `insdcljs`.

<code>usehyforms</code>	<pre> 2 \DeclareOption{usehyforms}{% 3   \def\FormsRequirement{\RequirePackage{insdcljs}[2017/03/02]}% 4 \def\FormsRequirement{\RequirePackage{eforms}[2017/02/27]}% </pre>
<code>usealtadobe</code>	<p>The <code>usealtadobe</code> option is deprecated, the function definitions are automatically loaded unless the <code>nocalcs</code> or <code>nodljs</code> option is taken.</p> <pre> 5 \DeclareOption{usealtadobe}{\PackageWarningNoLine{grayhints}% 6 {The 'usealtadobe' option is now deprecated.\MessageBreak% 7 The alternate functions are automatically loaded.\MessageBreak% 8 Please remove this grayhints package option}}% </pre>
<code>nocalcs</code>	<p>If this option is taken, the document JavaScript function <code>AllowCalc()</code> is not embedded in the document. The implications are that you are not using any calculation fields.</p> <pre> 9 \DeclareOption{nocalcs}{\let\nocalcs\endinput% 10 \let\nocalcs\relax% </pre>
<code>nodljs</code>	<p>When this option is specified, there are no requirements placed on this package; that is, neither <code>eforms</code> nor <code>insdcljs</code> are required.</p> <pre> 11 \DeclareOption{nodljs}{\let\FormsRequirement\relax% 12 \let\nodljsend\endinput% 13 \let\nodljsend\relax% 14 \DeclareOption*{\PassOptionsToPackage{\CurrentOption}{insdcljs}}% 15 \ProcessOptions% 16 \FormsRequirement% </pre> <p>We include <code>eqcolor.def</code>, a component of <code>exerquiz</code> to help parse colors, and to match JS colors with PDF colors.</p> <pre> 17 \@ifundefined{jsColor}{\let\eq@YES=y\let\eq@NO=n%} </pre>

```

18  \InputIfFileExists{eqcolor.def}
19  {\PackageInfo{grayhints}{Inputting eqcolor.def from exerquiz}}
20  {\PackageError{grayhints}{cannot find eqcolor.def belonging
21    to exerquiz}{Refresh your file name database and try again.}}
22 }{}}

```

## 2.1 JavaScript snippets for Field JavaScript

Code snippets are inserted in to the Format, Calculate, OnFocus, and OnBlur events, as illustrated above.

\normalGrayColors{\<normalcolor>}{\<graycolor>} There are two colors in play, the normal color of the text field (\<normalcolor>) and the color of the “grayed” text (\<graycolor>). We set the defaults to color.black and color.ltGray, respectively. The two parameters are JavaScript colors: array type ["RGB", 1, 0, 0], or predefined type color.blue. The command \jsColor is used to assign colors (taken from eqcolor.def of exerquiz).

```

23 \newcommand{\normalGrayColors}[2]{\def\gh@rgi{\#1}\def\gh@rgii{\#2}%
24   \ifx\gh@rgi\empty\else
25     \jsColor\gh@normalcolor{\#1}\gh@chkTr@nsparencey\fi
26   \ifx\gh@rgii\empty\else\jsColor\gh@graycolor{\#2}\m@tchGray\fi}
27 \def\gh@normalcolor{}{\def\gh@graycolor{}}
28 \AtEndOfPackage{\normalGrayColors{color.black}{color.ltGray}}

```

There are several predefined JavaScript colors the user can specify. We need to convert them to PDF color too.

```

29 \definecolor{ltGray}{gray}{0.75}
30 \definecolor{gray}{gray}{.5}
31 \definecolor{dkGray}{gray}{.25}
32 \def\gh@pd@transparent{ltGray}\def\gh@transparent{transparent}
33 \def\gh@pd@black{black}\def\gh@pd@white{white}
34 \def\gh@pd@dkGray{dkGray}\def\gh@pd@gray{gray}\def\gh@pd@ltGray{ltGray}
35 \def\gh@pd@red{red}\def\gh@pd@green{green}\def\gh@pd@blue{blue}
36 \def\gh@pd@cyan{cyan}\def\gh@pd@magenta{magenta}
37 \def\gh@pd@yellow{yellow}

```

Convert the JS color for \gh@graycolor to a matching PDF color that can be used by the \textColor property of a form field. Here, we use commands defined in the eqcolor.def file from exerquiz. This command defines the user command \matchGray.

```

38 \def\m@tchGray{\eq@checkRawJSCol{\gh@graycolor}%
39   \ifx\eq@predefineJSCol\eq@N0
\gh@graycolor is a JavaScript array
40   \let\matchGray\empty
41   \expandafter\gh@extr@ctJSModelInfo\gh@graycolor\@nil
42   \ifx\@rgi\empty\else\edef\matchGray{\@rgi}\fi
43   \ifx\@rgii\empty\else\edef\matchGray{\matchGray\space\@rgii}\fi
44   \ifx\@rgiii\empty\else

```

```

45      \edef\matchGray{\matchGray\space\@rgiii}\fi
46      \ifx@\rgiv\@empty\else\edef\matchGray{\matchGray\space\@rgiv}\fi
47  \else
48      \expandafter\gh@getColorFromPrefined\gh@graycolor\@nil
49      \@ifundefined{gh@pd@\pd@color}{%
50          \def\gh@graycolor{color.ltGray}\def\pd@color{ltGray}%
51          \PackageWarning{grayhints}
52              {The color.\pd@color\space is undefined,\MessageBreak
53              substituting color.ltGray}}{\ifx\pd@color\gh@transparent
54          \def\gh@graycolor{color.ltGray}\def\pd@color{ltGray}%
55          \PackageWarning{grayhints}
56              {A transparent color is not supported,\MessageBreak
57              using color.ltGray instead}\fi
58      }%
59      \edef\matchGray{\@nameuse{gh@pd@\pd@color}}%
60  \fi}
61 \def\gh@chkTr@nsparency{\eq@checkRawJSCol{\gh@normalcolor}%
62     \ifx\eqpredefineJSCol\eq@YES
63         \expandafter\gh@getColorFromPrefined\gh@normalcolor\@nil
64         \@ifundefined{gh@pd@\pd@color}{\def\gh@normalcolor{color.black}%
65             \PackageWarning{grayhints}
66                 {The color.\pd@color\space is undefined,\MessageBreak
67                 substituting color.black}}{}%
68         \ifx\pd@color\gh@transparent\def\gh@normalcolor{color.black}%
69             \PackageWarning{grayhints}
70                 {A transparent color is not supported,\MessageBreak
71                 using color.black instead}\fi
72     \fi
73 }

```

Various supporting macros to extract information.

```

74 \def\gh@extr@ctJSModelInfo[#1,#2]@\nil{%
75   \gh@getspecv@lues#2,,,@\nil}%
76 \def\gh@getspecv@lues#1,#2,#3,#4,#5@\nil{%
77   \def\@rgi{#1}\def\@rgii{#2}\def\@rgiii{#3}\def\@rgiv{#4}%
78   \def\gh@getColorFromPrefined color.#1@\nil{\def\pd@color{#1}}
79 \def\gh@PriorFormat{event.target.savevalue=event.value;\jsR}

```

**\FailStringDef** provides a helpful string when the user enters an improper string. This is a language localization command.

```
80 \newcommand\FailStringDef{continue editing}
```

**\EnterCommitFailDef** Sets the code for \FailStringDef.

```
81 \newcommand\EnterCommitFailDef{event.value=(\"FailStringDef");}
```

**\EnterCommitFailEvent** Sets the action when the user uses the Enter key to commit date, and the data is not validated.

```

82 \def\EnterCommitFailEvent#1{\def\@rgi{#1}\ifx\@rgi\@empty
83   \def\gh@ECFE{\EnterCommitFailDef}\else\def\gh@ECFE{#1}\fi}
84 \EnterCommitFailEvent{}
```

\CommitSuccessEvent Set what happens when entering a valid string into a formatting text field

```
85 \def\CommitSuccessEvent#1{\def\@rgi{#1}\ifx\@rgi\@empty
86 \let\gh@CSE\jsR\else\def\gh@CSE{\jsR\jsT #1\jsR}\fi}
87 \let\gh@CSE\jsR
```

\FmtToGray{*grayhint*} This command is placed in the Format event. It places the hint *grayhint* as the formatting text string when the field is empty. If a built-in Adobe function is also used, use \FmtToGray after it; for example,

```
\AAFormat{AFNumber_Format(0,1,0,0,"",true);
\FmtToGray{grayhint}}

88 \newcommand\FmtToGray[1]{%
89   if(typeof event.target.savevalue=="undefined"){\jsR\jsT
90     event.target.savevalue="";\jsR\jsT
91     event.target.success=false;\jsR
92   }\jsR
93   if(typeof event.target.ghBuiltin=="undefined")%
94     event.target.ghBuiltin=false;\jsR
95   if(!event.target.ghBuiltin)\gh@PriorFormat
96   event.target.ghBuildtin=false;\jsR\gh@FmtToGray{#1}}
97 \def\gh@FmtToGray#1{%
98   if(typeof event.target.saverc=="undefined")%
99     event.target.saverc=true;\jsR
100  if(!event.target.saverc||event.value==""){\jsR\jsT
101    if(event.target.savevalue!="">&&%
102      !event.target.success){\jsR\jsT\gh@ECFE\jsR\jsT}
```

Here is the only PDF dependent code. The event sequence of close to but not exactly the same as the event sequence for the Adobe PDF viewers, we must insert the following two lines of code to make things work for PDF-XChange Editor.

```
103   if(typeof app.pxceInfo!="undefined")%
104     event.target.savevalue="";\jsR\jsT
105   } else {\jsR\jsT\jsT
106     event.target.success=false;\jsR\jsT\jsT
107     event.value="#1";\jsT\gh@CSE\jsT}\jsR
108 } else {\jsR\jsT
109   event.target.success=true;\gh@CSE}
110 }
```

\KeyToGray This command is placed in the Keystroke event. It changes the color to ‘gray’ (\gh@graycolor) if the field is empty. If a built-in Adobe function is also used, use \KeyToGray after it; for example,

```
\AAFormat{AFNumber_Keystroke(0,1,0,0,"",true);
\KeyToGray}

111 \newcommand\KeyToGray{%
112   if(event.willCommit&&event.value!="&&!event.rc)\jsR\jsT
113   event.target.success=false;\jsR
114   event.target.saverc=event.rc;\jsR
```

```

115  event.rc=true;\jsR
116  if(event.willCommit&&event.value=="")%
117    event.target.textColor=\gh@graycolor;\jsR
118  if(event.willCommit)%
119    event.target.savevalue=event.value;
120 }

```

**\CalcToGray** The \CalcToGray is a Calculate script, it is needed only in a form field that performs a calculation. If a built-in Adobe function is also used, use \KeyToGray after it; for example,

```

\AAACalculate{var cArray=new Array("Integer");\jsR
if (AllowCalc(cArray)) AFSimple_Calculate("SUM", cArray );\jsR
\CalcToGray}

```

If the target population might use PDF-XChange Editor, whose features closely mimic those of Adobe Acrobat Reader, the use of \CalcToGray is recommended in all fields.

```

121 \newcommand\CalcToGray{event.target.textColor=%
122   (event.value=="")?\gh@graycolor:\gh@normalcolor;}

```

**\FocusToBlack** A command placed within the OnFocus event. When the field comes into focus, and the field is empty, the color for the text is turned to black. This can be redefined to another color.

(2018/10/04) We increase the complexity with the goal of getting a better user experience.

```

123 \newcommand\FocusToBlack{%
124   if (typeof event.target.success=="undefined")%
125     event.target.success=false;\jsR
126   if(event.target.valueAsString=="")%
127     ||!event.target.success)\jsR\jsT
128   event.target.textColor=\gh@normalcolor;
129 }

```

**\BlurToBlack** A command placed within the OnBlur event. It sets the text color to gray or black, depending on whether the field is empty or not. My be redefined with different colors.

(2018/10/04) We increase the complexity with the goal of getting a better user experience.

```

130 \newcommand\BlurToBlack{%
131   if (!event.target.success||event.target.valueAsString=="")\jsR\jsT
132   this.resetForm(event.target.name);\jsR
133   event.target.savevalue="";\jsR
134   event.target.textColor=(!event.target.success||%
135   event.target.valueAsString=="")?\gh@graycolor:\gh@normalcolor;
136 }

```

## 2.2 L<sup>A</sup>T<sub>E</sub>X commands for built-in functions

We define a series of commands as a convenience to the user. The arguments of each are the JavaScript argument enclosed in parentheses.

```

\NumKey  \NumKey for processing keystrokes for numbers, and \NumFmt formats a number
\NumFmt  according to its arguments.

137 \def\NumKey{EFNumber_Keystroke}
138 \def\NumFmt(#1){try{EFNumber_Format(#1)}catch(e){}}

\DateKey  \DateKey and \DateFmt process the keystroke and format events for a date.
\DateFmt  139 \def\DateKey{EFDate_Keystroke}
140 \def\DateFmt(#1){%
141   AFDate_Format(#1);\jsR
142   event.target.ghBuiltin=true;
143 }

\DateKeyEx \DateKeyEx and \DateFmtEx process the keystroke and format events for a date.
\DateFmtEx 144 \def\DateKeyEx{EFDate_KeystrokeEx}
145 \def\DateFmtEx(#1){%
146   AFDate_FormatEx(#1);\jsR
147   event.target.ghBuiltin=true;
148 }

\PercentKey \PercentKey and \PercentFmt process the keystroke and format events for a
\PercentFmt  number represented as a percentage.

149 \def\PercentKey{EFPPercent_Keystroke}
150 \def\PercentFmt(#1){%
  Avoid the dreaded "0.00%" when the field is blank
  151  if(event.value!=""||%
  152    (typeof event.target.savevalue!="undefined"&&%
  153     event.target.savevalue!=""))%
  154   AFPPercent_Format(#1);\jsR
  155   event.target.ghBuiltin=true;
  156 }

\TimeKey  \TimeKey, \TimeFmt, and \TimeFmtEx process the keystroke and format events
\TimeFmt  for a time.

\TimeFmtEx 157 \def\TimeKey{EFTime_Keystroke}\def\TimeFmt{EFTime_Format}
158 \def\TimeFmtEx(#1){try{EFTime_FormatEx(#1)}catch(e){}}

\SpecialKey \SpecialKey, \SpecialKeyEx, and \SpecialFmt process the keystroke and for-
\SpecialKeyEx  mat events for a special format.

\SpecialFmt  159 \def\SpecialKey{EFSpecial_Keystroke}
160 \def\SpecialKeyEx{EFSpecial_KeystrokeEx}
161 \def\SpecialFmt(#1){try{EFSpecial_Format(#1)}catch(e){}}

\RangeValidate \RangeValidate, \SimpleCalc, and \EFMergeChange are specialized JS functions
\SimpleCalc  for setting a range resstriction in the validate event, for making a simple calculation
\MergeChange  in the calculate event, and a general purpose function to merging the current
keystroke with event.value, valid for the keystroke event.

```

```

162 \def\RangeValidate{EFRRange_Validate}
163 \def\SimpleCalc{EFSimple_Calculate}
164 \def\MergeChange{EFMergeChange}
```

## 2.3 Document JavaScript to support gray hints

The alternate names adobe built-in need to be used for any format function; the normal built-in function names can be otherwise be used.

```

165 \noldjsend
166 \begin{insDLJS}{altadbfncs}{gh: Support for Adobe built-in functions}
167 var EFNumber_Keystroke=AFNumber_Keystroke;
168 function EFNumber_Format(){
169   event.target.savevalue=event.value;
170   event.target.ghBuiltin=true;
171   AFNumber_Format.apply(null,arguments);
172 }
173 var EFDate_Keystroke=AFDate_Keystroke;
174 function EFDate_Format(){
175   event.target.savevalue=event.value;
176   event.target.ghBuiltin=true;
177   AFDate_Format.apply(null,arguments);
178 }
179 var EFDate_KeystrokeEx=AFDate_KeystrokeEx;
180 function EFDate_FormatEx(){
181   event.target.savevalue=event.value;
182   event.target.ghBuiltin=true;
183   AFDate_FormatEx.apply(null,arguments);
184 }
185 var EFPPercent_Keystroke=AFPPercent_Keystroke;
186 function EFPPercent_Format(){
187   event.target.savevalue=event.value;
188   event.target.ghBuiltin=true;
189   AFPPercent_Format.apply(null,arguments);
190 }
191 var EFTTime_Keystroke=AFTTime_Keystroke;
192 function EFTTime_Format(){
193   event.target.savevalue=event.value;
194   event.target.ghBuiltin=true;
195   AFTTime_Format.apply(null,arguments);
196 }
197 function EFTTime_FormatEx(){
198   event.target.savevalue=event.value;
199   ghBuiltin=true;
200   AFTTime_FormatEx.apply(null,arguments);
201 }
202 var EFSpecial_Keystroke=AFSpecial_Keystroke;
203 var EFSpecial_KeystrokeEx=AFSpecial_KeystrokeEx;
204 function EFSpecial_Format(){
205   event.target.savevalue=event.value;
```

```

206   event.target.ghBuiltin=true;
207   AFSpecial_Format.apply(null,arguments);
208 }
209 var EFRRange_Validate=AFRRange_Validate;
210 var EFSimple_Calculate=AFSimple_Calculate;
211 var EFMergeChange=AFMergeChange;
212 \end{insDLJS}

\nocalcs is \relax unless the nocalcs option is taken, in which case it is \let
to \endinput.

213 \nocalcs
214 \begin{insDLJS}[gh: Support for the Calculate Event}

In order to get the gray hints to appear in the terminal field of a calculation group,
we cannot perform the calculate when all the dependent fields are empty. cArray
is an array of all dependent fields involved in the calculation. The use of this
function is illustrated in gh-eforms.tex and gh-hyperref.tex.

215 function AllowCalc(cArray) {
216   var f,g;
217   for (var i=0; i<cArray.length; i++) {
218     f=this.getField(cArray[i]);
219     g=f.getArray();
220     for (var j=0; j<g.length; j++)
221       if (g[j].valueAsString!="") return true;
222   }
223   return false;
224 }
225 \end{insDLJS}
226 %</package>

```

### 3 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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## 4 Change History

v1.1 (2018/10/04)

- |  |   |
|--|---|
| General: Deprecated the <code>usealtadobe</code> option,<br>now automatically loaded . . . . .   | 2 |
| Modify <code>\FmtToGray</code> , <code>\FocusToBlack</code> , and<br><code>\BlurToBlack</code> for better behavior when entry<br>is left empty . . . . . | 1 |

v1.2 (2018/11/01)

- ```
General: Added \CommitSuccessEvent ..... 5
        Added \EnterCommitFailDef ..... 4
        Added \FailStringDef ..... 4
Revisions to support PDF-XChange Editor ... 1
```