

# The **pmdb** Package

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<sup>1</sup> `(*package)`

## 1 Introduction

This package addresses the issue of a poor-man's database. Educators who use L<sup>A</sup>T<sub>E</sub>X to construct exams and homework sometimes have a collection of problems. Each problem is in its own TEX file. The educator creates a document and \inputs several of these packaged questions. This package attempts to provide some "user interface" to the questions and provides a mechanism of selecting which questions are to be included in the document.

**What does this package do?** For a document that inputs content using the L<sup>A</sup>T<sub>E</sub>X command \input, the same content can be input using the command \pmInput (capitalized). When content is input by \pmInput, a check box is created in the margin at the insertion point of the content. The check boxes so created can be checked or cleared. When the user clicks on push button provided by this package, a list of all *selected* \input statements are listed in the JavaScript console. This list can then be copied and pasted into another document the author is developing. If you Ctrl+Click on a check box, the associated content is opened in the default TEX editor. In this way, the document author can see a typeset of the content and decide whether the content should be included in the developing document.

**The DB stage:** When you have a collection of questions (or content) in various files and want to use this package to \input them into your document, the following comments are apropos:

**PDF creators:** Any PDF creator current in the L<sup>A</sup>T<sub>E</sub>X world is valid for use with this package.

**PDF viewers:** The ideal viewer is Acrobat, however, Adobe Reader and PDF-XChange Editor can also be used. In the case of Adobe Reader, there is an annoying security dialog box that appears each time you use the Ctrl+Click feature of the check box; the Ctrl+Click feature does not WORK with PDF-XChange Editor.

**The production stage:** After the document has been assembled (using pmdb), and you build your final document (perhaps an exerquiz quiz), the end user can use an appropriate PDF reader. If an exerquiz quiz is used, then a minimum of Adobe Acrobat Reader is required.

## 2 The main code

```
2 \edef\th@dquoteCat{\the\catcode`\"}
3 \catcode`\"=12\relax
4 \newif\ifpmdbmode \pmdbmodetrue
```

### 2.1 Package options and package requirements

- dbmode** The default option is dbmode. When in effect, check boxes appear in the margins at each \pmInput point.
 

```
5 \DeclareOption{dbmode}{\pmdbmodetrue}
```
- !dbmode** A convenient way to turn off the creation of the check boxes is to simply place an exclamation point (!) in front of the dbmode option.
 

```
6 \DeclareOption{!dbmode}{\pmdbmodefalse}
```
- tight** When this option is taken, the checkboxes are tight against the text box area.
 

```
7 \newif\ifpmdbtight \pmdbtightfalse
8 \DeclareOption{tight}{\pmdbtighttrue}
```

`!tight` The default for the package, the checkboxes are placed to extreme left (or right) in the margins.

```
9 \DeclareOption{!tight}{\pmdbtighfalse}
10 \ProcessOptions
11 \RequirePackage{eforms}
```

## 2.2 Special attention to Thor

One motivation for this package is to support the `thorhammer` package, to that end we make the following assignment, if Thor is not present. This is to prevent stoppage: if you are inputting a `\RespBoxEssay` question that is accompanied by the `\essayQ` command, defined in `thorhammer`.

```
12 \def\pmdb@ckThor{\@ifundefined{essayQ}{\let\essayQ\@gobble}{}}
13 \AtBeginDocument{\pmdb@ckThor}
```

## 2.3 Some switches

**Some Booleans and counters.** The `\ifpmdbFP` switch is set to true when the path to the resource is a full path; otherwise, it is set to false. The `\ifpmdbDQs` switch is set to true if double-quotes are detected; otherwise it is false.

```
14 \newif\ifpmdbFP \pmdbFPfalse
15 \newif\ifpmdbDQs \pmdbDQsfalse
```

## 2.4 Form field creation

In version dated 2021/01/03, we introduce a button to edit the resource directly in the default application. It can be turned on with `\editSourceOn` and off again with `\editSourceOff`. The default is off. These commands can be placed anywhere in the document and affect all subsequent insertions of `\cbSelectInput`.

```
16 \newif\ifeditSource \editSourcefalse
17 \def\editSourceOn{\editSourcetrue}
18 \def\editSourceOff{\editSourcefalse}
19 \newcount\pmdb@Cnt
```

### 2.4.1 Marginal edit source creation

First up is the design for the edit pushbutton or link annotation.

`\editSourceBtn[options] {wd} {ht}` The button to show the current referenced content in the default application.

```
20 \newcommand{\editSourceBtn}[3] [] {\def\@editSourceBtn##1{%
21   \pushButton[\A{S/Launch/F(\#1)}\protect\A#1
22   ]{\editPb.\the\pmdb@Cnt}{\#2}{\#3}}}
```

`\editSourceBtn[options] {wd} {ht} {txt}` The link version of the button.

```
23 \newcommand{\editSourceLnk}[4] [] {\def\@editSourceLnk##1{%
24   \raisebox{1bp}{\setLinkBbox[\A{S/Launch/F(\#1)}%
25   \protect\A#1]{\#2}{\#3}{c}{\makebox[\#2][1]{\thinspace\#4}}}}}
```

Declare the appearance of this push button and link

```

26 \editSourceBtn[\TU{View in default editor}\S{S}]{11bp}{11bp}
27 \editSourceLnk[\linktxtcolor{red}\H{N}]{11bp}{11bp}{E}

```

\useEditBtn We provide a control for setting the annot used to edit the source: \useEditBtn, a pushbutton is used; \useEditLnk, a link is used. The default is to use a pushbutton.

```

28 \def\useEditBtn{\def\@editSourceBorL{\editSourceBtn}}
29 \def\useEditLnk{\def\@editSourceBorL{\editSourceLnk}}
30 \useEditBtn

```

#### 2.4.2 Marginal checkbox creation

\cbSelectInput{<path>} creates a check box with a tool tip of <path> The mouse up action \ccBoxMU fixes up relative paths, and defines a Ctrl+Click action. When the check box is so clicked, the <path> is opened in the default browser. The <path> can be relative or absolute. This command is used within \insertCkBx; its <path> argument is passed to it from \insertCkBx.

```

31 \def\pmCBPresets#1{\def\pm@CBPresets{#1}}
32 \pmCBPresets{}

```

Here is the check box that appears in the margins and the edit source button \ifeditSource is true.

```

33 \def\cbSelectInput#1{\mbox{\checkBox[\TU{#1}\presets{\pm@CBPresets}]
34   \cmd{\bParams{#1}{\the\pmdb@Cnt}\eParams}
35   \AAmouseup{\ccBoxMU}{\pmbdbCkBx.\the\pmbdb@Cnt}{11bp}{11bp}{On}%
36   \ifeditSource\olBdry@\editSourceBorL{#1}\fi\global
37   \advance\pmbdb@Cnt\one
38 }

```

\insertCkBx{<method>} The argument of this macro describes the method of inserting the checkbox. The default definition works well for a straightforward document, where you are inputting ordinary L<sup>A</sup>T<sub>E</sub>X code (such as sections or chapters).

```

39 \def\insertCkBx#1{\def\@insertCkBx##1{#1}}

```

\pmAlignCB Placement of check boxes in the margin. \pmAlignCB controls the marginpar placement. \altCBMargins alternates the margin placement, forces the check box to the extreme left (on odd pages) and extreme right (on even pages).

```

40 \def\setCBsMarg{%
41   \ifpmbdtight
42     \if@reversemargin
43       \def\pmAlignCBAlt{\ifodd\value{page}\leavevmode
44         \hfill\else\fi\else
45       \def\pmAlignCBAlt{\ifodd\value{page}\else\hfill\fi\fi
46     \else
47       \if@reversemargin
48         \def\pmAlignCBAlt{\ifodd\value{page}\hfil\else\hfil\fi\else
49         \def\pmAlignCBAlt{\ifodd\value{page}\hfill\else\fi\fi
50       \fi

```

```

51 }
52 \def\altCBMargins{\let\pmAlignCB\pmAlignCBAlt}
53 \def\pmAlignCB{%
54   \if@reversemargin
55     \ifpmbtight\hfill\else\fi
56   \else
57     \ifpmbtight\else\hfill\fi
58   \fi
59 }
60 \c@ifundefined{chapter}{}{\AtBeginDocument{\setCBsMarg\altCBMargins}}

```

This is the default declaration. It works well when you are inputting content that goes into horizontal mode. We insert the check box at the beginning of the first paragraph. When you are inputting files that come into a list environment, this method does not work satisfactory.

### 3 \pmInput states

The switch `\ifqzInput` is set to true when `\InputQuizItems` is expanded; otherwise, it is set to false.

```
61 \newif\ifqzInput \qzInputfalse
```

`\InputParas` This macro declares that the next `\pmInput` macros are for paragraph content. This is the default state of the package.

```

62 \def\InputParas{\global\qzInputfalse
63   \insertCkBx{\ifpmbmode
64   \everypar{\marginpar{\pmAlignCB
65     \cbSelectInput{##1}}\global\everypar{}}\fi}}
```

Set the default to be `\InputParas`

```
66 \InputParas
```

`\InputProbs` The `\InputProbs` is a command that declares the next `\pmInput` is for questions for an `eqexam` document. Currently this command is still under development.

```

67 \def\InputProbs{\global\qzInputfalse
68   \insertCkBx{\ifpmbmode
69   \def\prior@questionsHook{\marginpar
70     {\pmAlignCB\cbSelectInput{##1}}}\fi}}
```

`\InputQuizItems` The macro declares that the next `\pmInput` is for items in a `quiz` environment of `exerquiz`

```

71 \newcount\saveQNo \saveQNo\z@
72 \def\pmHook@qzItems{%
73   \let\item@pmOld\item
74   \def\item@pmNew{\item@pmOld\itemhook\let\item\item@pmOld}%
75   \let\item\item@pmNew}
76 \def\InputQuizItems{\global\qzInputtrue
77   \let\pmHook\pmHook@qzItems
78   \saveQNo\z@
79   \insertCkBx{\def\cbInQzMargin{\cbSelectInput{##1}}}%
```

```

80   \ItemHook{\leavevmode\ifpmbmode
81   \ifnum\saveQNo<\value{eqquestionnoi}%
82     \marginpar{\pmAlignCB\cbInQzMargin}\fi
83   \saveQNo=\arabic{eqquestionnoi}\fi}}
84 \def\pmHook@item{\let\item@pmOld\item
85   \def\item@pmNew{%
86     \ifx\pmiarg\empty
87       \ifx\pmBrk\ef@YES
88         \def\pm@next{\item@pmOld[]}\else
89         \let\pm@next\item@pmOld
90       \fi
91     \else
92       \def\pm@next{\item@pmOld[\pmiarg]}\%
93     \fi\pm@next\itemhook\let\item\item@pmOld}\%
94   \let\item\item@pmNew
95 }
96 \def\ItemHook#1{\def\itemhook{#1}}
97 \def\InputItems{\global\qzInputfalse
98   \let\pmHook\pmHook@item
99   \insertCkBx{\def\cbInQzMargin{\cbSelectInput{##1}}}\%
100  \ItemHook{\leavevmode\ifpmbmode
101    \marginpar{\pmAlignCB\cbInQzMargin}\fi}}

```

#### Place checkbox and input *<path>*

\ckBxInput{<path>} Places the check box and inputs the <path>.

```

102 \let\pmHook\relax
103 \def\ckBxInput#1{@insertCkBx{#1}\%
104   \ifpmbDQs\def\donext{\pmHook\input{"#1}}\else
105     \def\donext{\pmHook\input{#1}}\fi
106   \donext}

```

### 3.1 Other pushbutton creations

This package provides two form fields that are used for the DB step.

\displayChoices[<options>]{<wd>}{<ht>} inserts a push button whose action is to display the selections in the console window. The argument <wd> can be empty, in which case, the width of the field is determined from the \CA key.

```

107 \newcommand{\displayChoices}[3][] {\pushButton[\TU{\displayChoice@TU}]
108   \CA{\displayChoice@CA}#1\AA mouseup{\sldInputs}\protect\AA
109 ]{\sldInputs}{#2}{#3}}

```

Easy access to the \CA and \TU keys, for language localization, are provided. These are \displayChoiceCA{<text>} and \displayChoiceTU{<text>}.

```

\displayChoiceCA 110 \def\displayChoiceCA#1{\def\displayChoice@CA{#1}}
111 \def\displayChoiceTU#1{\def\displayChoice@TU{#1}}
112 \displayChoiceCA{Display Choices}

```

```

113 \displayChoiceTU{Display all choices in the console window}

\clrChoices[⟨options⟩]{⟨wd⟩}{⟨ht⟩} inserts a push button whose action is to clear all check
boxes (and underlying JavaScript variables) created by this package. The argument
⟨wd⟩ can be empty, in which case, the width of the field is determined from
the \CA key.

114 \newcommand{\clrChoices}[3][]{\pushButton[\TU{\clrChoices@TU}]
115   \CA{\clrChoices@CA}#1\AAmouseup{\clrAction}\protect\AA
116 ]{Inputs}{}{}}

Easy access to the \CA and \TU keys, for language localization, are provided. These
\clrChoicesCA are \clrChoicesCA{⟨text⟩} and \clrChoicesTU{⟨text⟩}.

\clrChoicesTU 117 \def\clrChoicesCA{\def\clrChoices@CA{}}
118 \def\clrChoicesTU{\def\clrChoices@TU{}}

The default declarations for these two.

119 \clrChoicesCA{Clear Choices}
120 \clrChoicesTU{Clear all check boxes created by pmdb}

```

### 3.2 Defining the \pmInput command

\pmInput\*[⟨arg⟩]{⟨path⟩} is the main user-interface for inputting a file; here, the macro's name is \pmInput, ultimately it calls \input with the same path. Paths with spaces must be enclosed in double quotes (\pmInput{my cool problem.tex}) and the extensions must always be used. If the \* option is specified, \pmInput gobbles up all remaining arguments and does nothing otherwise. The optional argument ⟨arg⟩ is only obeyed when \InputItems is in affect; it is passed on to the underlying \item, as in \item[⟨arg⟩]. The ⟨path⟩ argument is the path to the content to be input; if the ⟨path⟩ contains spaces, then the path must be enclosed in double quotes ("my cool path/file.tex").

```

121 \newcommand@\gobbleOR[2][]{}
122 \def\pmInput{\@ifstar{\@gobbleOR}{\pmInput@i}}
123 \def\pmInput@i{\@ifnextchar%
124   {\let\pm@Brk\ef@YES\inputConta}
125   {\let\pm@Brk\ef@NO\inputConta}}
126 \let\pm@Brk\ef@NO
127 \def\inputConta{\bgroup\@makeother\" \inputContb}
128 \newcommand\inputContb[2][]{\egroup\def\pmiarg{#1}\inputConti#2;;}

```

Determine if double quotation marks are used.

```

129 \def\inputConti{\@ifnextchar"%
130   {\global\pmdbDQstrue\removedqs}
131   {\global\pmdbDQsfals\removesemis}}
132 \def\removedqs"#1";{\inputContii{#1}}
133 \def\removesemis#1;{\inputContii{#1}}

```

Determine if this is a full path, we do this by searching for a colon (:). Following the search for the colon, pass on to the final step of \doinput.

```
134 \def\inputContii#1{\isFullPath#1:@nil\doinput{#1}}
```

A command to detect presence of a colon.

```
135 \def\isItFullPath#1:#2@nil{%
136   \def\@rgii{#2}\ifx\@rgii\@empty
137     \global\pmbFPfalse\else
138     \global\pmbFPtrue\fi}
```

Final step, if the switch `\ifpmbmode` is true, we insert the check box `\ckBxInput`; otherwise, we pass `\path` to `\input`.

```
139 \def\doinput#1{\ifpmbmode\def\donext{\ckBxInput{#1}}\else
140   \ifpmbDQs\def\donext{\input{"#1}}\else
141   \def\donext{\input{#1}}\fi\fi
142 \donext}
```

During the development of this package, the original command name used was `\Input`. There are a few users that use this old definition; the command `\Input` is defined in other package, in particular in the `srcltx`. So we allow the use of `\Input` if `\Input` is not otherwise defined.

```
143 \def\pmInputWarni{\PackageWarningNoLine{pmb}{The command
144   \string\Input\space is already defined.\MessageBreak
145   The checkboxes may not appear in the margins.\MessageBreak
146   Use the supported command \string\pmInput\space instead}}
147 \def\pmInputWarnii{\PackageWarningNoLine{pmb}{Letting
148   \string\Input\space to \string\pmInput. You are \MessageBreak
149   encouraged to use the supported\MessageBreak
150   command \string\pmInput\space instead}}
151 \def\pmInputChk{@undefined{\Input}{\let\Input\pmInput
152   \pmInputWarni}{\pmInputWarnii}}
153 \AtBeginDocument{\pmInputChk}
```

## 4 Field JavaScript

`\ccBoxMU` This is the JavaScript action of the check box, used in `\cbSelectInput`. This code uses two parameters `\p(1)=\path` and `\p(2)=\cnt` (`\the\pmb@Cnt`).

```
154 \begin{defineJS}[\makeesc@\makecmt\%]{\ccBoxMU}
155 @ifpmbFP%
156 event.target.userName=("@p(1)");
157 @else%
```

This part of the code is Windows specific. Don't know enough about Mac OS to form the proper path.

```
158 // device independent path
159 var pos=this.path.lastIndexOf("/");
160 var thispath=this.path.substring(0,pos+1);
  /<drive>/user/documents/.../myfolder/
161 pos=thispath.indexOf("/",1);
162 var drive=thispath.substring(1,pos);
163 var platform=app.platform;
```

```

Windows platform
164 if (platform=="WIN")
    <drive>/user/documents/.../myfolder/
165  thispath=drive+":"+thispath.substring(pos+1);
MacOS platform: I'm not familiar with the MacOS file system, so we'll just assume
it is the same as with Windows.
166 if (platform=="MAC")
    <drive>/user/documents/.../myfolder/
167  thispath=drive+"/"+thispath.substring(pos+1);
168 event.target.userName=thispath+"@p(1)";@fi
169 if (event.modifier){
170   event.target.checkThisBox(0,!event.target.isBoxChecked(0));
171   try {
172     aebTrustedFunctions(this,aebLaunchURL,%
173 {cURL: "file:///"+event.target.userName});
174   } catch(e) {
175     console.show();
176     console.println("The Ctrl+Click action is not supported, %
177 installation of aeb\_pro.js or aeb-reader.js is required.");
178   }
(2020/04/29) Add a shift event for quizzes.
179 }
180 if (event.shift) {
181   event.target.checkThisBox(0,!event.target.isBoxChecked(0));%
182 @ifqzInput
183   this.gotoNamedDest("@currQuiz."+(@p(2)+1));@fi
184 } else {
185   if (event.target.isBoxChecked(0)){
186     _oSPaths["pmdbCkBx.@p(2)"]=%
187 [("@p(1)",@ifpmdbDQs true@else false@fi];
188     _aInputs[@p(2)]=true;
189     _numInputs++;
190   }else{
191     _oSPaths["pmdbCkBx.@p(2)"]=null;
192     _aInputs[@p(2)]=false;
193     _numInputs--;
194   }
195   event.target["_boxState"]=!!event.target.isBoxChecked(0);
196 }
197 \end{defineJS}

\sldInputs This is the mouse up action for a push button. It lists all selected content and
displays them in the console window of Acrobat/Reader, used in \displayChoices.
198 \begin{defineJS}[\makecmt\%]{\sldInputs}
199 console.clear();console.show();
200 if (_numInputs==0) console.println("No inputs selected");
201 else {

```

```

202   for(var i=0;i<_aInputs.length;i++){
203     if (!(!_aInputs[i])){
204       if(_oSPaths["pmdbCkBx."+i][1])
205         console.println('\\\\\\input\\{\\"'+(_oSPaths["pmdbCkBx."+i][0])%
206 +'\\\"}');
207       else
208         console.println('\\\\\\input\\{'+_oSPaths["pmdbCkBx."+i][0])%
209 +'\\}');
210     }
211   }
212 }
213 \end{defineJS}

\clrAction Mouse up action to clear the checkboxes and to re-initialize internal internal JS
variables. Used in \clrChoices.

214 \begin{defineJS}\clrAction
215 var _oSPaths=new Object;
216 var _aInputs=new Array;
217 var _numInputs=0;
218 this.resetForm("pmdbCkBx");
219 \end{defineJS}

```

## 5 Document JavaScript

```

220 \begin{insDLJS}{mrki}{Supporting JavaScript for pmdb}
221 var _oSPaths=new Object;
222 var _aInputs=new Array;
223 var _numInputs=0;
224 \end{insDLJS}

225 \catcode`\"=\th@dquoteCat
226 
```

## 6 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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## 7 Change History

v0.4 (2019/12/09)		\editSourceBtn: Added \editSourceBtn	3
General: Added \InputItems	6	Added \editSourceLnk	3
Modified to work when no points are specified	5	Added \useEditBtn and \useEditLnk	4
v0.5 (2020/04/29)		Added hard wired action to launch the default	
General: Added event.shift for quizzes	9	application.	4
v0.6 (2021/01/03)		v1.0 (2021/06/07)	
General: Added \editSourceOn and		General: Upgrading v0.6 to v1.0 for publication	2
\editSourceOff	3		