the ptltools package *

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^{*}This doument corresponds to ptltools v0.0.1, dated 2020/6/21 $^\dagger \rm{Email:}$ < peterlitszo@outlook.com >

1 First at All

This document is for the package ptltools, which has a kit of tools to build great document you like: status bars, a to-do boxes, and so on.

If you like to add others and you are good at LATEX-ing, it is a good idea that go to www.github.com/peterlitszo/ptltools to push your request pull. Or email me by your idea, then I'd like to try to achieve it as my best.

2 Source code and the more details

2.1 The Head of the File

This is the head of ptltools's package:

```
1 \NeedsTeXFormat{LaTeX2e}[2005/12/01]
2 \ProvidesPackage{ptltools}
3     [\the\year/\the\month/\the\day{}
4      v0.0.1
5      a kit of tools, greater than your thinking]
6 \RequirePackage{tikz}
7 \RequirePackage{ifthen}
```

2.2 The Todo Boxes

2.2.1 The Lower-Level Todo Boxes

\ptl@todo@empty
\ptl@todo@doing
 \ptl@todo@ok
\ptl@todo@error

There are four todo boxes for you: empty todo box, doing todo box, ok todobox and error todobox. the lower-level command is showed by the table 1.

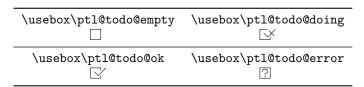


Table 1: The pictures of raw to-do boxes

Those commands declare four base raw todo boxes:

```
8 \newsavebox{\ptl@todo@empty}
9 \newsavebox{\ptl@todo@doing}
10 \newsavebox{\ptl@todo@ok}
```

11 \newsavebox{\ptl@todo@error}

\ptl@todo@baselength

Those boxes are based on the length – $\ptl@todo@baselength$, and all the boxes have the size $2\ptl@todo@baselength \times 3\ptl@todo@baselength$:

```
12 \newlength{\ptl@todo@baselength}
13 \setlength{\ptl@todo@baselength}{0.9ex}
```

\ptl@todo@inital

The next part defines command **\ptl@todo@inital** to inital all boxes register by TikZ boxes.

```
14 \newcommand{\ptl@todo@inital}{
15 \def\p@b{\ptl@todo@baselength}
```

1. (In the definition of ϕ This will make box ϕ have the value of " \Box ".

2. (In the definition of <page-header> This will make box \oint have the value of " \checkmark ".

```
\savebox{\ptl@todo@doing}{%
22
        \tikz{
23
            \path[use as bounding box] (0, 0) rectangle (3\p@b, 2\p@b);
24
            \draw (1.5\p@b,2\p@b) -- (0,2\p@b) -- (0,0) -- (2\p@b,0)
                -- (2\p@b,0.5\p@b);
            27
            \draw (1.75\p@b, 1.75\p@b) -- (2.75\p@b, 0.75\p@b);
28
        }%
29
     }
30
```

3. (In the definition of $\ptl@todo@inital$) This will make box $\ptl@todo@ok$ have the value of " $\precein \precein \p$

```
\savebox{\ptl@todo@ok}{%
31
           \tikz{
32
               \path[use as bounding box] (0, 0) rectangle (3\p@b, 2\p@b);
33
               \draw (2\p@b, 1.5\p@b) -- (2\p@b, 2\p@b) -- (0, 2\p@b) -- (0, 0)
34
                     -- (2\p@b,0) -- (2\p@b,0.5\p@b);
35
               \draw (0.75\p@b,1.25\p@b) -- (1.5\p@b,0.5\p@b) -- (3\p@b,2\p@b);
36
          }%
37
      }
38
```

4. (In the definition of \ptl@todo@inital) This will make box \pt@todo@error have the value of "?" ".

```
\savebox{\ptl@todo@error}{%
39
           \tikz{
40
               \path[use as bounding box] (0, 0) rectangle (3\p@b, 2\p@b);
41
               \draw (0,0) rectangle (2\p@b,2\p@b);
42
               \frac{1}{p0b}, 0.5\frac{p0b}{--} (1\frac{p0b}{0.75}
43
                      .. controls (1\p0b, 1\p0b) and (1.5\p0b, 1\p0b) ..
44
                          (1.5\p@b, 1.2\p@b)
                      .. controls (1.5\p@b,1.75\p@b) and (1.25\p@b,1.75\p@b) ...
                          (1\p0b, 1.75\p0b)
47
                      .. controls (0.75\p@b, 1.75\p@b) and (0.5\p@b, 1.75\p@b) ..
48
                          (0.5\p@b,1.2\p@b);
49
               \fill (1\p@b,0.25\p@b) circle [radius=0.1\p@b];
50
          }%
51
      }
52
```

End of its definition.

```
53 }
54 \ptl@todo@inital
```

2.2.2 The Higher-Level Boxes

\ptltodo It is a good idea to use commands like \ptltodo [\langle character \rangle] but not the lower-level commands. Because those commands are more readable than these lower-level commands.

Look at table 2 for more infomations.

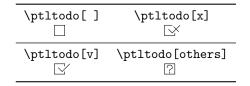


Table 2: The pictures of to-do boxes for user

```
\def\ptltodo[#1]{%
                                                                                                                                     \usebox\ptl@todo@empty%
   57
                                                                                                                                     {\bf }{\bf x}{\bf x}{\bf x}{\bf x}{\bf x}{\bf x}{\bf x}
   58
                                                                                                                                                                                                                        \usebox\ptl@todo@doing%
   59
                                                                                                                                     {\left\{ \right\} } {
   60
                                                                                                                                                                                                                           \usebox\ptl@todo@ok%
   61
   62
                                                                                                                                                                                                                           \usebox\ptl@todo@error%
   63
   64
                                                                                                                                     }}}%
65 }
```

Change History

v0.0.1					
General: Initial version					1

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.

P	15	\ptl@todo@inital $\underline{14}$
$p@b \dots 15, 18, 19,$	\ptl@todo@doing $\underline{8}$, 59 \ptl@todo@empty $\underline{8}$, 57	\n+1@+odo@olz 8 61
24-28, 33-36, 41-50	\ptl@todo@empty $8,57$	\ptietodoeok <u>6</u> , 01
\ptl@todo@baselength	\ptl@todo@error 8, 63	\ptltodo 55