# the $ptltools\ \mathrm{package}^*$

# Peterlits Zo peterlitszo@outlook.com

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<sup>\*</sup>This doument corresponds to ptltools v0.0.1, dated 2020/6/18

### 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 IATEX-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      [2020/6/18 v0.0.1 a kit of tools, greater than your thinking]
4 \RequirePackage{tikz}
5 \RequirePackage{ifthen}
```

#### 2.2 The Todo Boxes

#### 2.2.1 The Lower-Level Todo Boxes

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

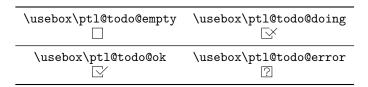


Table 1: The pictures of raw to-do boxes

```
6 \newsavebox{\ptl@todo@empty}
7 \newsavebox{\ptl@todo@doing}
8 \newsavebox{\ptl@todo@ok}
9 \newsavebox{\ptl@todo@error}
10
11 \newlength{\p@b}
12 \sl 0.9ex
13
14 \newcommand{\ptl@todo@inital}{
15
      \savebox{\ptl@todo@empty}{%
16
          \tikz{
              \path[use as bounding box] (0, 0) rectangle (3\p@b, 2\p@b);
17
              \draw (0,0) rectangle (2\p@b,2\p@b);
18
```

```
}%
19
      }
20
      \savebox{\ptl@todo@doing}{%
21
          \text{tikz}{}
22
              \path[use as bounding box] (0, 0) rectangle (3\p@b, 2\p@b);
23
24
              \draw (1.5\p@b, 2\p@b) -- (0, 2\p@b) -- (0, 0) -- (2\p@b, 0)
25
                    -- (2\p@b,0.5\p@b);
              \draw (0.75\p@b, 1.25\p@b) -- (1.5\p@b, 0.5\p@b) -- (3\p@b, 2\p@b);
26
              \draw (1.75\p@b,1.75\p@b) -- (2.75\p@b,0.75\p@b);
27
          }%
28
      }
29
30
      \space{ptl@todo@ok}{%}
          \tikz{
31
              \path[use as bounding box] (0, 0) rectangle (3\p@b, 2\p@b);
32
              33
                    -- (2\p@b,0) -- (2\p@b,0.5\p@b);
34
              \draw (0.75\p@b,1.25\p@b) -- (1.5\p@b,0.5\p@b) -- (3\p@b,2\p@b);
35
          }%
36
37
      }
38
      \savebox{\ptl@todo@error}{%
39
          \tikz{
              \path[use as bounding box] (0, 0) rectangle (3\p@b, 2\p@b);
40
              \draw (0,0) rectangle (2\p@b,2\p@b);
41
              \draw (1\p@b, 0.5\p@b) -- (1\p@b, 0.75\p@b)
42
                    .. controls (1\p@b, 1\p@b) and (1.5\p@b, 1\p@b) ..
43
                        (1.5\p@b,1.2\p@b)
44
                    .. controls (1.5\p@b,1.75\p@b) and (1.25\p@b,1.75\p@b) ..
45
                        (1\p@b, 1.75\p@b)
46
                    .. controls (0.75\p@b,1.75\p@b) and (0.5\p@b,1.75\p@b) ..
47
                        (0.5\p@b,1.2\p@b);
48
              \fill (1\p@b,0.25\p@b) circle [radius=0.1\p@b];
49
50
          }%
51
      }
52 }
53
54 \ptl@todo@inital
```

#### 2.2.2 The Higher-Level Boxes

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

Look at table 2 for more infomations.

```
55 \def\ptltodo[#1]{%
56 \ifthenelse{\equal{#1}{\space}}{%
57 \usebox\ptl@todo@empty%
58 }{\ifthenelse{\equal{#1}{x}}{%
59 \usebox\ptl@todo@doing%
60 }{\ifthenelse{\equal{#1}{v}}{%
```

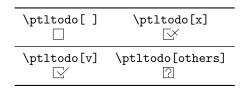


Table 2: The pictures of to-do boxes for user

```
61 \usebox\ptl@todo@ok%
62 \}{%
63 \usebox\ptl@todo@error%
64 \}}}%
```