Commands to show TLP 2.0 (Traffic Light Protocol) labels

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Abstract

This document describes usage and implementation of the traffic-light-protocol package, which allows typesetting TLP labels in your document.tags

1 Usage

You can simply use this package by calling the $\t \{\langle level \rangle\}\$ command. For example, calling $\t \{vel \}\$ yields $\t LP:RED$.

This package provides the following options for the \tlp command:

red	TLP:RED
amber	TLP:AMBER
amber+strict	TLP:AMBER+STRICT
green	TLP:GREEN
clear	TLP:CLEAR

2 Package options

This package allows to set one of the options rgb or cmyk, which control whether use CMYK or RGB to define colors (the TLP standard allow any of them).

3 Implementation

We rely on some package to display colored boxes:

```
1 \RequirePackage{expl3}
2 \RequirePackage{13keys2e}
3 \RequirePackage{xcolor}
   Load and execute package options
4 \ExplSyntaxOn
5 \str_new:N\tlp_font_color
6 \str_new:N\tlp_name
7 \str_new:N\tlp_bg_color
8 \str_set:Nn\tlp_bg_color{tlp-bg-black}
9 \str_new:N\color_mode
10 \str_set:Nn\color_mode{rgb}
11 \keys_define:nn { tlp }{
12
      color-mode .choice:,
      color-mode/rgb .code:n = \str_set:N\color_mode{rgb},
13
      color-mode/cmyk .code:n = \str_set:N\color_mode{cmyk},
14
15
      level .choice:,
16
      level / red .code:n =
17
          \str_set:Nn\tlp_font_color{tlp-font-red}
18
          \str_set:Nn\tlp_name{RED},
19
      level / amber .code:n =
20
21
          \str_set:Nn\tlp_font_color{tlp-font-amber}
22
          \str_set:Nn\tlp_name{AMBER},
23
      level / amber+strict .code:n =
          \str_set:Nn\tlp_font_color{tlp-font-amber}
24
          \str_set:Nn\tlp_name{AMBER+STRICT},
25
26
      level / green .code:n =
          \str_set:Nn\tlp_font_color{tlp-font-green}
27
28
          \str_set:Nn\tlp_name{GREEN},
      level / clear .code:n =
29
          \str_set:Nn\tlp_font_color{tlp-font-clear}
30
          \str_set:Nn\tlp_name{CLEAR},
31
32 }
33 \ProcessKeysPackageOptions{tlp/color-mode}
34 \ExplSyntaxOff
```

3.1 Color definitions

The following color definitions are based on the TLP 2.0 standard.

```
35 %
36 \ExplSyntaxOn
37 \msg_new:nnn\{traffic-light-protocol}\{illegal_color_mode\}
38  \{Illegal\color\mode:\ #1\\ (only\\ 'rgb'\\ and\\ 'cmyk'\\ are\\ supported\}\}
39 \cs_new_protected_nopar:Npn\tlp_set_rgb_colornames:\{
40  \definecolor\{tlp-bg-black\}\{RGB\}\{0,0,0\}\}
41  \definecolor\{tlp-font-red\}\{RGB\}\{255,43,43\}\}
42  \definecolor\{tlp-font-amber\}\{RGB\}\{255,192,0\}\}
43  \definecolor\{tlp-font-green\}\{RGB\}\{51,255,0\}\}
44  \definecolor\{tlp-font-clear\}\{RGB\}\{255,255,255\}
```

```
45 }
    46 \verb|\cs_new_protected_nopar:Npn\tlp_set_cmyk_colornames:{}|
          47
          \definecolor{tlp-font-red}{CMYK}{0,83,83,0}
    48
          \definecolor{tlp-font-amber}{CMYK}{0,25,100,0}
    49
          \definecolor{tlp-font-green}{CMYK}{79,0,100,0}
    50
          \definecolor{tlp-font-clear}{CMYK}{0,0,0,0}
    51
    52 }
    53 \str_case:NnF\color_mode
    54 {
          {rgb} {\tlp_set_rgb_colornames:}
    55
          {cmyk} {\tlp_set_cmyk_colornames:}
    56
    58 \ExplSyntaxOff
       Now we can define the \tp macro.
\tlp
    59 \ExplSyntaxOn
    60 \label{locality} $0 \le \mathbb{R}^{m}_{m} 
          \ensuremath{\verb|lensuremath| keys_set:nn{tlp/level}{\#1}}
    62
          \colorbox{\str_use:N\tlp_bg_color}
    63
              {\textcolor{\str_use:N\tlp_font_color}{
    64
                  \verb|\textsf{TLP:\str_use:N\tlp_name}}| \\
    65 }
    66 \ExplSyntaxOff
```