The tumcolor package*

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1 Introduction

This package has two purposes: to load the xcolor package and to define the TUM colors as specified by the corporate design¹.

If more colors are needed, consider loading tumcolor with *dvipsnames*, *svg-names*, or *x11names* option (see the documentation of the xcolor for details). Also, consider loading your very own color package. In TUM documents you should load the tumcolor package at the beginning of your own color definition package.

2 Installation

Install this package like any other LATEX package.

The end of this file contains the installation file (.ins) code in case the provided ins-file got lost.

For style creation run latex tumcolor.ins. For doc/manual creation run latex tumcolor.dtx.

3 Dependencies

As of tumcolor v2.2 this package depends on

- xcolor and
- pgfplots,

if the pgfplots option is used.

^{*}This document corresponds to tumcolor v2.2, dated 2016/07/27.

 $^{^{1} \}rm https://portal.mytum.de/corporatedesign/regeln/index_styleguide$

4 Package Options

pgfplots Provides a plot cycle list according to the corporate design.

5 Official TUM Colors Provided

5.1 Basic Colors



5.2 Additional Blues

TUMBlueDarkest [Pantone 540]	TUMBlueDarker [Pantone 301]
TUMBlueLighter [Pantone 542]	TUMBlueLightest [Pantone 283]

Shades Of course, shades can be generated in the usual way using the xcolor syntax color!number, but as these shades are also in the official corporate design guidelines, they are included as well.

TIMBlueDarkest80

sign guidennes, they are included as wen.	1 UMDIUeDarkestou
TUMBlueDarker80	
TUMBlueDarkest50	TUMBlueDarker50
TUMBlueDarkest20	TUMBlueDarker20
TUMBlueLighter80	TUMBlueLightest80
TUMBlueLighter50	${\bf TUMBlue Lightest 50}$
TUMBlueLighter20	TUMBlueLightest20

5.3 Highlight Colors



6 Presentation Colors

6.1 PowerPoint Colors



TUMPPTGray

TUMPPTBlue1
TUMPPTBlueLight

6.2 Additional Beamer Colors

NOTE: These colors are only suggested ones (i.e. rather unofficial).

${\rm TUMBeamerYellow}$	TUMBeamerOrange
${ m TUMBeamerRed}$	${\rm TUMBeamerDarkRed}$
${ m TUMBeamerBlue}$	${\bf TUMBeamer Light Blue}$
TUMBeamerGreen	${\rm TUMBeamerLightGreen}$

7 PGFPLOTS Cycle List

Using the package option pgfplots, a cycle list named tum is created, which generates plots like in the example figure Figure 1.

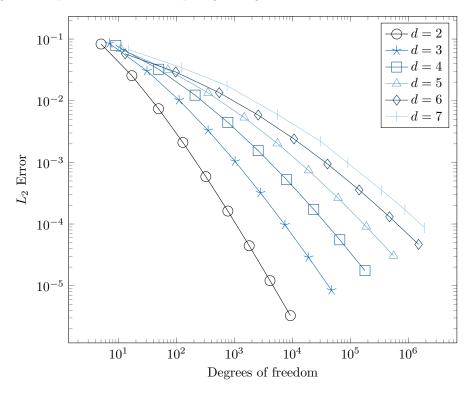


Figure 1: Example Plot.

There is also a style for bar charts provided.

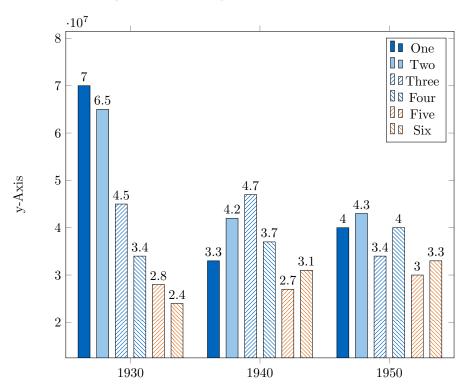


Figure 2: Example Barchart.

8 Implementation

8.1 Package Options

PGF option.

- ${\tt 1 \ \ left} \\ {\tt left} \\ {\tt$
- 2 \DeclareOption{pgfplots}{\pgfplotstrue}%
 Pass all remaining options to xcolor.
- 4 \ProcessOptions\relax%

8.2 Load **xcolor** with Options

As this package depends on the **xcolor** package, we pass all options to this very package.

5 \RequirePackageWithOptions{xcolor}%

8.3 Load pgfplots

In case the plot cycle list is also requested.

```
6 \ifpgfplots
7 \RequirePackage{pgfplots}%
8 \RequirePackage{pgfplotstable}%
9 \tikzset{>=stealth}%
10 \usetikzlibrary{patterns}%
11 \usetikzlibrary{pgfplots.statistics}%
12 \fi
```

8.4 Define Official TUM Colors

The official TUM colors as defined in https://portal.mytum.de/corporatedesign/regeln/index_styleguide.

8.4.1 Print Colors

```
Black, Gray, and White is a must have.
13 \definecolorset{RGB}{TUM}{}{%
                   0;%
14 Black, 0, 0,
         51, 51, 51;%
15 Gray,
16 White, 255, 255, 255;%
   The official TUM Blue [Pantone 300 C].
17 Blue, 0, 101, 189;%
   Highlighting colors.
18 Ivory, 218, 215, 203;%
19 Orange, 227, 114, 34;%
20 Green, 162, 173,
21 }%
   Gray tones [50 / 20 percent black].
22 \definecolorset{RGB}{TUMGray}{}{%
23 Lighter, 128, 128, 128;%
24 Lightest, 204, 204, 204%
25 }%
   Four more TUM blues. All Pantone. [Pantone 540 C / Pantone 301 C /
Pantone 542 C / Pantone 283 C].
26 \definecolorset{RGB}{TUMBlue}{}{%
              0, 51, 89;%
27 Darkest,
              0, 82, 147;%
28 Darker,
29 Lighter, 100, 160, 200;%
30 Lightest, 152, 198, 234%
31 }%
   Also the official shades [80, 50, 20] of these four base colors.
32 \colorlet{TUMBlueDarkest80}{TUMBlueDarkest!80}%
33 \colorlet{TUMBlueDarkest50}{TUMBlueDarkest!50}%
```

```
34 \colorlet{TUMBlueDarkest20}{TUMBlueDarkest!20}%
35 \colorlet{TUMBlueDarker80}{TUMBlueDarker!80}%
36 \colorlet{TUMBlueDarker50}{TUMBlueDarker!50}%
37 \colorlet{TUMBlueDarker20}{TUMBlueDarker!20}%
38 \colorlet{TUMBlueLighter80}{TUMBlueLighter!80}%
39 \colorlet{TUMBlueLighter50}{TUMBlueLighter!50}%
40 \colorlet{TUMBlueLighter20}{TUMBlueLighter!20}%
41 \colorlet{TUMBlueLightest80}{TUMBlueLightest!80}%
42 \colorlet{TUMBlueLightest50}{TUMBlueLightest!50}%
43 \colorlet{TUMBlueLightest20}{TUMBlueLightest!20}%
```

8.4.2 Slide Colors

Colors used in the PowerPoint template

```
44 \definecolorset{RGB}{TUMPPT}{}{%
45 Orange,
           227, 114, 34;%
           162, 173, 0;%
46 Green,
           100, 160, 200;%
47 Blue4,
48 Blue3,
             0, 115, 207;%
49 Blue2,
              0, 82, 147;%
              0, 51, 89;%
50 Blue1,
51 BlueLight,
             0, 101, 189;%
             51, 51, 51%
52 Gray,
53 }%
```

Suggested TUM colors for beamer presentations. All RGB. [RGB 255,180,000 / RGB 255,128,000 / RGB 229,052,024 / RGB 202,033,063 RGB 000,153,255 / RGB 065,190,255 / RGB 145,172,107 / RGB 181,202,130].

```
54 \ensuremath{\mbox{\sc TUMBeamer}} \{\} \%
```

```
55 Yellow, 1.00, 0.71, 0.00;% 56 Orange, 1.00, 0.50, 0.00;% 57 Red, 0.90, 0.20, 0.09;% 58 DarkRed, 0.79, 0.13, 0.25;% 59 Blue, 0.00, 0.60, 1.00;% 60 LightBlue, 0.25, 0.75, 1.00;% 61 Green, 0.57, 0.67, 0.42;% 62 LightGreen, 0.71, 0.79, 0.51% 63 }%
```

8.5 Plot Cycle List for PGFPLOTS

```
64 \ifpgfplots
65 \pgfplotscreateplotcyclelist{tum}{%
66 {color = TUMBlack,
                                                          mark size = 3.8},%
                             mark = o,
  {color = TUMBlue,
                                                          mark size = 3.8},%
67
                             mark = star,
   {color = TUMBlueDarker, mark = square,
                                                          mark size = 3.8},%
68
69 {color = TUMBlueLighter, mark = triangle,
                                                          mark size = 3.8},%
   {color = TUMBlueDarkest, mark = diamond,
                                                          mark size = 3.8},%
70
71
    {color = TUMBlueLightest, mark = |,
                                                           mark size = 3.8},%
72
   %%
```

```
{color = TUMBlack,
                                                             mark size = 3.8},%
                              mark = *,
    {color = TUMBlue,
                              mark = 10-pointed star,
                                                             mark size = 3.8},%
74
    {color = TUMBlueDarker,
                                                             mark size = 3.8},%
                              mark = square*,
75
   {color = TUMBlueLighter, mark = triangle*,
                                                             mark size = 3.8},%
76
    {color = TUMBlueDarkest, mark = diamond*,
77
                                                             mark size = 3.8},%
78
   {color = TUMBlueLightest, mark = Mercedes star flipped, mark size = 3.8}%
79 }%
80 \pgfplotsset{/pgfplots/bar cycle list/.style={/pgfplots/cycle list={\%}}
        {black, mark = none, fill = TUMBlue},%
81
        {black, mark = none, fill = TUMBlueLightest},%
82
        {black, mark = none, pattern = north east lines, pattern color = TUMBlue},%
83
        {black, mark = none, pattern = north west lines, pattern color = TUMBlue},%
        {black, mark = none, pattern = north east lines, pattern color = TUMOrange},%
85
        {black, mark = none, pattern = north west lines, pattern color = TUMOrange},%
86
        {black, mark = none, pattern = horizontal lines, pattern color = TUMOrange},%
87
        {black, mark = none, pattern = crosshatch,
                                                          pattern color = TUMOrange}%
88
      }%
89
   }%
90
91 }%
92 \fi
```

8.5.1 Aliases

Some additional aliases to make commonly used colors more recognizable. Legacy colors.

```
93 \colorlet{TUMDarkBlue}{TUMBlueDarkest}%
94 \colorlet{TUMDarkerBlue}{TUMBlueDarker}%
95 \definecolor{TUMMediumBlue}{cmyk}{0.90,0.48,0.00,0.00}%
96 \colorlet{TUMLighterBlue}{TUMBlueLighter}%
97 \colorlet{TUMLightBlue}{TUMBlueLightest}%
98 \colorlet{TUMDarkGray}{TUMGray}%
99 \colorlet{TUMMediumGray}{TUMGrayLighter}%
100 \colorlet{TUMLightGray}{TUMGrayLightest}%
```

Change History