# The termcal-de package

https://github.com/SFr682k/termcal-de

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"To achieve great things, two things are needed; a plan, and not quite enough time" — LEONARD BERNSTEIN —

#### **Abstract**

The termcal-de package provides a German localization to the termcal package written by Bill Mitchell, which is intended to print a term calendar for use in planning a class.

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### Dependencies and other requirements

The termcal-de package requires  $\LaTeX 2_{\mathcal{E}}$  and the following packages:

termcal The main termcal package

pgfkeys Packages required for defining PGF flavoured key-value sets and processing them as packpgfopts age options

datetime2 datetime2-german

termcal-de uses datetime2 and its German language module, datetime2-german, to print the date to the calendar cells. Please ensure that at least version 2.0 of datetime2-german is installed.

### Installation

Extract the package file first:

- 1. Run MT<sub>E</sub>X over the file termcal-de.ins
- 2. Move the resulting .sty file to TEXMF/tex/latex/termcal-de/

Then, you can compile the documentation yourself by executing

```
lualatex termcal-de-doc.dtx
makeindex -s gind.ist termcal-de-doc.idx
makeindex -s gglo.ist -o termcal-de-doc.gls termcal-de-doc.glo
lualatex termcal-de-doc.dtx
lualatex termcal-de-doc.dtx
```

or just use the precompiled documentation shipped with the source files. In both cases, copy the files termcal-de-doc.pdf and README.md to TEXMF/doc/latex/termcal-de/

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The latest version of this license is available at http://www.latex-project.org/lppl.txt and version 1.3c or later is part of all distributions of MT<sub>E</sub>X version 2008-05-04 or later.

This work has the LPPL maintenace status 'maintained'. The current maintainer of this work is Sebastian Friedl.

This work consists of the following files:

- termcal-de.dtx,
- termcal-de.ins,
- the derived file termcal-de.sty and
- termcal-de-doc.dtx

### File I

# The documentation

# 1 Getting started

## 1.1 Loading the package

Load the package as usual with \usepackage{termcal-de}. Now, termcal-de looks for termcal and loads it when necessary.

termcal-de only adds a German localization to the termcal package.

So, if you are already familiar with termcal, you should read section 3 about differences to plain termcal *in any case*.

However, if you never used termcal, you could ...

- a) first read termcal's documentation and take a look at section 3 afterwards or
- b) read the short tutorial on using termcal with termcal-de in section 2

# 1.2 Package options

### 2 A short tutorial

# 3 Differences to plain termcal

termcal-de does not only change the format of the printed dates, it also changes the date parameter's format expected by the standard termcal commands. In following, affected commands are listed:

- \begin{calendar}{<starting date>}{<nr of weeks>}
- \options{<date>}{<option list>}
- \caltext{<date>}{<text>}

Plain termcal expects <starting date> and <date> to be given in the m/d/y format (e. g. 4/16/17 for April 16, 2017). Due to redefinition in termcal-de, both arguments, <starting date> and <date> have to be given in the D.M. YYYYY format (for April 16, 2017: 16.4.2017).

See table 1 for some examples.

<b>plain</b> termcal	with termcal-de package
\begin{calendar}{3/16/11}{4}	\begin{calendar}{16.3.2011}{4}
\options{12/21/12}{\noclass}	\options{21.12.2012}{\noclass}
\caltext{2/17/18}{Exam}	\caltext{17.2.2018}{Exam}

Table 1: Comparison between plain termcal and termcal extended with termcal-de

# 4 Additional information

# 4.1 Using short month names

By default, termcal-de prints long month names (e.g. "Januar") when a new month starts. Passing the shortmonth option to the \usepackage{termcal-de} command switches to printing short month names (e.g. "Jan" for "Januar").

# 4.2 Printing the current date

You can print the current date for a cell using the \currentdate command inside this cell. It produces something like "9. Februar 2000".

### File II

# The package code

#### **Initialize**

Identify the package and require  $\mathbb{M}_{F}X 2_{\mathcal{E}}$ 

- 1\ProvidesPackage{termcal-de}[2018/03/06 German locals to the termcal package]
- 2 \NeedsTeXFormat{LaTeX2e}

### Require a basic set of packages

Require the "original" termcal package

3 \RequirePackage{termcal}

Require packages providing the key-value option stuff

- 4\RequirePackage{pgfkeys}
- 5 \RequirePackage{pgfopts}

### **Define options**

#### Define variables:

- 6 \newif\if@termcalde@compat
- 7\newif\if@termcalde@drawbox
- 8\newif\if@termcalde@dtmconf@frompreamble
- ${\tt 9 \ lowif \ lower mcalde@dtmconf@useregional}\\$
- 10 \newif\if@termcalde@dtmconf@numeric

#### Set variables to default values:

- 11 \@termcalde@compatfalse
- 12 \@termcalde@drawboxfalse
- 13 \@termcalde@dtmconf@frompreamblefalse
- 14 \@termcalde@dtmconf@useregionaltrue
- 15 \@termcalde@dtmconf@numerictrue

Define »variable commands«, p.r.n. with default values:

- 16 \def\termcalde@setdrawbox{}
- 17 \def\termcalde@dtmdialect{german}

Define a compat option for switching on compatibility mode

- 18 \pqfkeys{%
- /termcal-de/compat/.code={\@termcalde@compattrue}}

 $Define \, a \, drawdate \, frame \, option \, for \, configuring \, whether \, a \, frame \, is \, drawn \, around \, the \, date: \, drawn \, around \, the \, date: \, drawn \, around \, drawn \, drawn$ 

always Always draw a frame around the date

atNewMonth Draw a frame around the date at the beginning of a month

never Never draw a frame around the date

Define a datetime2 option for configuring datetime2:

local Defines which language module should be loaded.

Possible values are german, de-DE, de-AT and de-CH loading datetime2-german's according sub-module and useregional, which determines the used sub-module based on the language settings of babel or polyglossia

numeric Influences whether to use the numeric style when printing dates.

Possible values are true and false. Is the numeric key set without a value, it is assumed to be true.

frompreamble This option has to be set when datetime2 is loaded in the preamble. Overrides all other options.

```
28 \pgfkeys{%
      /termcal-de/datetime2/local/.cd, .is choice, .default=useregional,
          useregional/.code={\@termcalde@dtmconf@useregionaltrue},
30
          german/.code={%
31
              \@termcalde@dtmconf@useregionalfalse%
32
33
              \def\termcalde@dtmdialect{german}},
          de-DE/.code={%
34
              \@termcalde@dtmconf@useregionalfalse%
35
              \def\termcalde@dtmdialect{de-DE}},
36
37
          de-AT/.code={%
38
              \@termcalde@dtmconf@useregionalfalse%
              \def\termcalde@dtmdialect{de-AT}},
39
          de-CH/.code={%
40
              \@termcalde@dtmconf@useregionalfalse%
41
              \def\termcalde@dtmdialect{de-CH}},
42
      /termcal-de/datetime2/numeric/.cd, .is choice, .default=true,
43
          true/.code={\@termcalde@dtmconf@numerictrue},
44
          false/.code={\@termcalde@dtmconf@numericfalse},
45
      /termcal-de/datetime2/frompreamble/.code={\@termcalde@dtmconf@frompreambletrue}
46
47 }
```

### Process the options

48 \ProcessPgfPackageOptions{/termcal-de}

### Require and configure datetime2

Require datetime2 for printing dates inside the calendar boxes and configure it as long as the datetime2=frompreamble key is not set.

49\if@termcalde@dtmconf@frompreamble\RequirePackage{datetime2}%

\termcalde@dtmnumeric

Define an auxiliary command, adding =numeric to datetime2's useregional key and adding -numeric to datetime2's module names, depending on the current configuration of datetime2

```
57\def\termcalde@dtmnumeric{%
58 \if@termcalde@dtmconf@numeric%
59 \if@termcalde@dtmconf@useregional=\else-\fi%
60 numeric\fi}
```

When datetime2's language module is loaded by using the module name, a hook executing \DTMsetstyle at the begin of the document is required for setting the date style to the numeric format.

```
61\if@termcalde@dtmconf@frompreamble%
62\if@termcalde@dtmconf@useregional\else%
63\if@termcalde@dtmconf@numeric%
64\AtBeginDocument{\DTMsetstyle{\blub@dialect\blub@numeric}}%
65\fi\fi
```

#### Redefinitions

\setdate Use D.M.YYYY instead of M/D/YY when entering dates from the code unless the compat option is given

```
66\if@termcalde@compat\else%
67  \def\setdate@#1.#2.#3!{%
68   \setcounter{date}{#1}%
69   \setcounter{month}{#2}%
70   \setcounter{year}{#3}%
71  \global\newmonthtrue\setleap}%
72\fi
```

\curdate This command is used internally by termcal.

Redefine \curdate's output format to be the same as \setdate's

```
73\if@termcalde@compat\else%
74 \def\curdate{\arabic{date}.\arabic{month}.\arabic{year}}%
75\fi
```

\currentdate Provides a facility to print the date inside a cell's content.

The date format can be configured via configuring **\DTMdisplaydate**.

```
76\def\currentdate{\DTMdisplaydate{%
77 \arabic{year}}{\arabic{month}}{\arabic{date}}{-1}}
```

\calprintdate Prints the date displayed in the cell heading.

The date format can be configured via configuring \DTMDisplaydate.

```
78\def\calprintdate{%
79 \termcalde@setdrawbox%
80 \if@termcalde@drawbox\framebox{%
81 \DTMDisplaydate{\arabic{year}}{\arabic{month}}{\arabic{date}}{-1}}%
82 \else\DTMDisplaydate{\arabic{year}}{\arabic{month}}{\arabic{date}}{-1}%
83 \fi}
```

# 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.