WALLCALENDAR CODE DOCUMENTATION

 $v1.3 \cdot 17$ th October 2017 · link

1 INTRODUCTION

This is the code documentation for the wallcalendar documentclass.

The ${\bf User\ Guide}$ is in wallcalendar.pdf. Clone or download from Github:

https://github.com/profound-labs/wallcalendar/

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2 HEADER

```
% wallcalendar.cls; Don't edit this file. Edit wallcalendar-code.org with
%
% Wall Calendar
%
% A wall calendar document class with custom layouts and support for internationalization.
%
% (c) Gambhiro Bhikkhu, 2017
% gambhiro.bhikkhu.85@gmail.com
%
% LPPL LaTeX Public Project License
```

3 IDENTIFICATION

```
\NeedsTeXFormat{LaTeX2e}
\ProvidesClass{wallcalendar}[2017/10/17 v1.3 A wall calendar class with dustom layouts and support for international content of the content of the
```

4 PRELIMINARY DECLARATIONS

```
\RequirePackage{pgfopts}
\RequirePackage{calc}

\newlength\calPaperWidth
\newlength\calPaperHeight
\newlength\@wall@leftMargin
\newlength\@wall@topMargin
\newlength\@wall@bottomMargin
\newlength\@wall@bottomMargin
\def\@wall@eventsCsv{}
\def\@wall@markDefaultsCsv{}
\def\@wall@translationsInputFile{}
\newcommand*\theMonthName{}
```

5 OPTIONS

Paper sizes and ratios.

```
Choral Octavo = 6.75in x 10.5in = 171.45mm x 266.7mm , r = 1.5555
The calendar row is 40mm (without bleed) = 1.5748in
```

```
When photo is above the calendar row, it has only three side bleed.

So aspect ratio:
(10.5in - 40mm + 3mm) / (6.75in + 6mm) =
(266.7 - 40 + 3) / (171.45 + 6) =
= 1.2944
```

```
\newif\ifvarnishmask
\newif\ifshowframe
\newif\iftranslationsAutoload
\newif\ifloadBabel
\pgfkeys{
 /wall/.is family, /wall,
 defaults/.style = {
   year = \the\year,
   altyear = \empty,
   loadBabel = false,
   language = english,
   translationsAutoload = true,
   imageFolder = {./src-images},
   choralOctavoPaper,
   hMargin = 17mm,
   topMargin = 20.5mm,
   bottomMargin = 10mm,
 year/.store in = \CalendarYear,
 year/.initial = \the\year,
 altyear/.store in = \CalendarAltYear,
 altyear/.initial = \empty,
 language/.store in = \@wall@calendarLanguage,
 loadBabel/.is if = loadBabel,
 translationsInputFile/.store in = \@wall@translationsInputFile,
 translationsInputFile/.initial = {},
 translationsAutoload/.is if = translationsAutoload,
 eventsCsv/.store in = \@wall@eventsCsv,
 eventsCsv/.initial = {},
 markDefaultsCsv/.store in = \@wall@markDefaultsCsv,
 markDefaultsCsv/.initial = {},
 varnishmask/.is if = varnishmask,
 showframe/.is if = showframe,
 imageFolder/.store in = \@wall@imageFolder,
 paperWidth/.code = {\setlength{\calPaperWidth}{#1}},
 paperHeight/.code = {\setlength{\calPaperHeight}{#1}},
 hMargin/.code = {\setlength{\@wall@leftMargin}{#1}%
                   \setlength{\@wall@rightMargin}{#1}},
 leftMargin/.code = {\setlength{\@wall@leftMargin}{#1}},
 rightMargin/.code = {\setlength{\@wall@rightMargin}{#1}},
 topMargin/.code = {\setlength{\@wall@topMargin}{#1}},
 bottomMargin/.code = {\setlength{\@wall@bottomMargin}{#1}},
 choralOctavoPaper/.style = {paperWidth = 6.75in, paperHeight = 10.5in},
 a2Paper/.style = {paperWidth = 420mm, paperHeight = 594mm},
 a2PaperLandscape/.style = {paperWidth = 594mm, paperHeight = 420mm},
 a3Paper/.style = {paperWidth = 297mm, paperHeight = 420mm},
 a3PaperLandscape/.style = {paperWidth = 420mm, paperHeight = 297mm},
 a4Paper/.style = {paperWidth = 210mm, paperHeight = 297mm},
 a4PaperLandscape/.style = {paperWidth = 297mm, paperHeight = 210mm},
 a5Paper/.style = {paperWidth = 148mm, paperHeight = 210mm}, % r = 1.414 = sqrt(2)
 prevPaper/.style = {paperWidth = 170mm, paperHeight = 250mm}, \frac{1.4705}{1.4705}
% Debug with: \wlog{YEA: \the\@wall@bottomMargin}
\DeclareOption*{%
 \PassOptionsToClass{\CurrentOption}{memoir}
\pgfkeys{/wall, defaults}
\ProcessPgfOptions{/wall}
```

6 MORE DECLARATIONS

6.1 Load memoir

```
\LoadClass[11pt,oneside]{memoir}
```

6.2 Temp variables

```
\newlength\@tmp@a
\newlength\@tmp@b
\newlength\@tmp@c
\newlength\@tmp@width
\newlength\@tmp@height
```

6.3 Require packages

```
\ifloadBabel
\RequirePackage[\@wall@calendarLanguage]{babel}
\fi
\RequirePackage{nag}
%\RequirePackage{textcomp}
\RequirePackage[cmyk] {xcolor}
\RequirePackage{graphicx}
\DeclareGraphicsExtensions{.pdf,.png,.jpg}
\graphicspath{{\@wall@imageFolder}}
\RequirePackage{eso-pic}
\RequirePackage{ccicons}
\RequirePackage{multicol}
\RequirePackage{wasysym}
\RequirePackage{pdftexcmds}
\RequirePackage{etoolbox}
\RequirePackage{luacode}
\RequirePackage{xcoffins}
%\RequirePackage{xstring}
\% \backslash Require Package \{stringstrings\}
\ifloadBabel
\RequirePackage[final,babel=true]{microtype}
\RequirePackage[final]{microtype}
\fi
\RequirePackage{tikz}
\usetikzlibrary{calendar}
\usetikzlibrary{positioning}
```

```
\usetikzlibrary{fit}
\usetikzlibrary{shapes.geometric}

% http://tex.stackexchange.com/a/20426/831
\pgfdeclarelayer{one}
\pgfdeclarelayer{two}
\pgfsetlayers{main,one,two}

\pgfkeys{%
    /tikz/on layer/.code={
        \pgfonlayer{#1}\begingroup
        \aftergroup\endpgfonlayer
        \aftergroup\endgroup
}
```

6.4 Colors

```
\definecolor{textbody}{gray}{0.15}
% pantone 1245C, RGB 191,145,12 HEX: #BF910C
% pantone 1255C, CMYK 0,27.5,100,34
\label{lem:color} $$ \end{mathemath} $$ \operatorname{cmyk}_{0,0.275,1,0.34} $$
\definecolor{darkgold}{cmyk}{0.27,0.53,1,0.09}
\verb|\| \textit{definecolor} \{orangegold\} \{\textit{cmyk}\} \{\textit{0},\textit{0}.31,\textit{0}.89,\textit{0}\} \\
\colorlet{orangegold}{darkgold}
\colorlet{gridcolor}{black!30}
\colorlet{weekday}{black}
\colorlet{weekend}{black!50}
\colorlet{mooncolor}{textbody}
\definecolor{datenum}{gray}{0.3}
\definecolor{plannerdatenum}{gray}{0.15}
\definecolor{quote}{gray}{0.3}
\definecolor{notes}{gray}{0.3}
\definecolor{gridcolor}{gray}{0.5}
\colorlet{pagebgcolor}{gridcolor!60}
```

showframe option colors:

```
\colorlet{photo-frame}{blue}
\colorlet{quote-frame}{red}
\colorlet{heading-frame}{brown}
\colorlet{calendar-frame}{orange}
\colorlet{events-frame}{green}

\ifshowframe
\colorlet{calendarbg}{black!50}
\else
\colorlet{calendarbg}{white}
\fi
```

6.5 Page Size and Trim Marks

```
\ifshowtrims
       \setstocksize{\calPaperHeight + 35mm}{\calPaperWidth + 35mm}
       \setlength{\paperheight}{\calPaperHeight}
       \setlength{\paperwidth}{\calPaperWidth}
       \trimXmarks
       \trimLmarks
       \quarkmarks
       \settrims{0.5\stockheight - 0.5\paperheight}{0.5\stockwidth - 0.5\paperwidth}
       \settrimmedsize{\calPaperHeight}{\calPaperWidth}{*}
       \setstocksize{\calPaperHeight}{\calPaperWidth}
       \settrims{0pt}{0pt}
       \settrimmedsize{\stockheight}{\stockwidth}{*}
\fi
\verb|%| set type blocks ize{\stock height}{\stock width}{|*|}
% TODO: calculate margins by ratios to paper size
\setlrmarginsandblock{\@wall@leftMargin}{\@wall@rightMargin}{*}
\verb|\setulmargins| and \verb|\setulmargin| {\tt \commargin} {\tt \commargi
\setheadfoot{0pt}{0pt}
\setheaderspaces{0pt}{*}{*}
\checkandfixthelayout% This will typeout values in pt.
\settypeoutlayoutunit{mm}} % It is useful to see layout values in mm too.
\typeoutlayout
```

6.6 Base font sizes and indents

```
\def\@wall@fontSize{11}
\def\@wall@lineHeight{13.6}
\renewcommand{\normalsize}{%
 \@setfontsize\normalsize\@wall@fontSize\@wall@lineHeight
 \abovedisplayskip 11\p@ \@plus3\p@ \@minus6\p@
 \abovedisplayshortskip \z@ \@plus3\p@
 \belowdisplayshortskip 6.5\p@ \@plus3.5\p@ \@minus3\p@
 \belowdisplayskip \abovedisplayskip
 \color{textbody}
 \let\@listi\@listI}
\normalsize
\setlength{\vgap}{1.5em}
\setlength{\vindent}{\vgap}
\setlength{\vleftmargin}{2em}
\setlength{\parskip}{0pt}
\setlength{\parindent}{0pt}
\setlength{\fboxsep}{0pt}
```

```
#1 -- [fill=red, opacity=0.2], additional options used for showframe
#2 -- "hasvarnish", to indicate varnishmask color replacement when =varnishmask= option is used
#3 -- the content to hold the place for
```

The varnishmask and showframe options are handled by the same \placeholder helper command to avoid having to use two commands and repeating the content argument.

```
\definecolor{varnishmask}{gray}{0}
% http://tex.stackexchange.com/a/59571/831
\newcommand*{\strcmpblank}[3]{%
 \newcommand\@placeholder@pre[1]{%
 \settowidth{\@tmp@width}{#1}%
 \settototalheight{\@tmp@height}{#1}%
 \newcommand\placeholder[3][]{%
 \ifvarnishmask%
   \ifstrequal{#2}{hasvarnish}{%
     \@placeholder@pre{#3}%
    \tikz\node[fill=varnishmask, inner sep=Opt]{\@spacer};%
   }{}%
 \else%
   \ifshowframe%
    \@placeholder@pre{#3}%
    \tikz\node[inner sep=0pt, opacity=0.6, #1]{\@spacer};%
   \else%
    #3%
   \fi%
 \fi%
```

7 KEYS SETUP

7.1 /put photo

```
\def\@wall@photo@putPhoto#1{#1}
\def\@wall@photo@setYOffset{}

\pgfkeys{
   /put photo/.is family, /put photo,
   simple/.code = {%
     \def\@wall@photo@putPhoto##1{%
     \includegraphics{##1}%
   }%
   \def\@wall@photo@setYOffset{}%
},
full page/.code = {%
```

```
\def\@wall@photo@putPhoto##1{%
      \includegraphics[%
        keepaspectratio, %
        width={\calPaperWidth + 2\@t@bleed},%
      ]{##1}%
    }%
    \def\@wall@photo@setYOffset{}%
  },
  full width above calendar/.code = {%
    \def\@wall@photo@putPhoto##1{%
      \includegraphics[%
        keepaspectratio, %
        width={\calPaperWidth + 2\@t@bleed},%
      ]{##1}%
    }%
    \def\@wall@photo@setYOffset{%
      \label{lem:condition} $$\left( \frac{0t0y0ffset}{0t0calendar0height + 0t0bleed + 1pt} \right) $$
    }%
  },
  full width/.code = {%
    \def\@wall@photo@putPhoto##1{%
      \includegraphics[%
        keepaspectratio,%
        width={\calPaperWidth + 2\@t@bleed}, %
      ]{##1}%
    }%
    \def\@wall@photo@setYOffset{%
      \setlength{\@t@yOffset}{\@t@calendar@height + \@t@bleed}%
    }%
  },
}
```

7.2 /Рното

```
\pgfkeys{
  /Photo/.is family, /Photo,
  init/.style = {
    defaults/.style = {file = {}, thumbFile = {}, caption = {}, bleed = Opt, xOffset=Opt, yOffset=Opt},
    file/.initial = {},
    thumbFile/.initial = {},
    caption/.initial = {},
    bleed/.initial = Opt,
    xOffset/.initial = Opt,
    yOffset/.initial = Opt,
},
}
```

7.3 /Quote

```
\pgfkeys{
  /Quote/.is family, /Quote,
  init/.style = {
    defaults/.style = {position=center, text={}, xOffset=Opt, yOffset=Opt},
    position/.initial = {},
    text/.initial = {},
```

```
xOffset/.initial = Opt,
yOffset/.initial = Opt,
},
}
```

7.4 /Calendar

```
\pgfkeys{
  /Calendar/.is family, /Calendar,
  init/.style = {
    defaults/.style = {bg/.style={opacity=0.5}},
    bg/.style = {},
    minimum height/.initial = {},
  },
}
```

7.5 /Events

```
\pgfkeys{
  /Events/.is family, /Events,
  init/.style = {
    defaults/.style = {day code = {}, marks = {}, text = {}},
    day code/.initial = {},
    marks/.initial = {},
    text/.initial = {},
},
}
```

7.6 /Txt

```
\pgfkeys{
   /Txt/.is family, /Txt,
   init/.style = {
    defaults/.style = {text = {}},
    text/.initial = {},
   },
}
```

7.7 /parseMonthEvents

```
\def\eIdx{}
\def\eMaxIdx{}
\def\eMark{}
\def\eIsoDate{}
\def\eYear{}
\def\eYear{}
```

```
\def\eMonthShort{}
\def\eDay{}
\def\eDayText{}
\def\eNote{}
\pgfkeys{
 /parseMonthEvents/.is family, /parseMonthEvents,
 month/.initial = {},
 filter pred/.initial = nil,
 format func/.initial = nil,
 format cmd/.initial = {},
 events csv/.initial = {},
 mark defaults csv/.initial = {},
 min events/.initial = {},
 defaults/.style = {
   month = \theMonthName,
   filter pred = nil,
   format func = nil,
   format cmd = {\textsuperscript{\eIdx}~\eMonthShort~\eDay:~\eNote\par},
    events csv = \@wall@eventsCsv,
   mark defaults csv = \@wall@markDefaultsCsv,
   min events = nil,
 },
}
```

7.8 /parseYearEvents

```
\pgfkeys{
  /parseYearEvents/.is family, /parseYearEvents,
  year/.initial = {},
 filter pred/.initial = nil,
 format func/.initial = nil,
  format cmd/.initial = {},
  events csv/.initial = {},
  mark defaults csv/.initial = {},
  min events/.initial = {},
  defaults/.style = {
   year = \CalendarYear,
    filter pred = nil,
    format func = nil,
    format cmd = {\textsuperscript{\eIdx}~\eMonthShort~\eDay:~\eNote\ifn\mless{\eIdx}{\eMaxIdx}{,\space}{.}},
    events csv = \@wall@eventsCsv,
    mark defaults csv = \@wall@markDefaultsCsv,
    min events = nil,
 },
}
```

8 EVENT MARKS

8.1 Kite

```
\newcommand\StarMark{*}
\newcommand\NoteStarMark{*}
```

A kite mark that is the same height as the \StarMark. Note that the star (*) character is usually higher than the x-height, so it is not in the vertical center of its glyph box (i.e. not at the center of the character x):

 $\mathbf{x}^{|\mathbf{x}|}$

```
\newlength\@wall@starHeight
% Measure the star's height here, so that we are measuring with the current typeface.
\newcommand\KiteMark{%
\setlength{\@wall@starHeight}{\totalheightof{*}}%
\begin{tikzpicture}
  \node (box) [
    rectangle, minimum height=\@wall@starHeight, minimum width=3.4pt,
    inner sep=Opt, line width=Opt,
  ] {};
  \node[
    kite, draw, textbody, fill=textbody,
    scale=0.15, kite vertex angles=60,
    above=Opt of box.north, anchor=north,
 ] {};%
\end{tikzpicture}%
% Same as \KiteMark but with scale=0.2
\newcommand\NoteKiteMark{\raisebox{1pt}{%
\setlength{\@wall@starHeight}{\totalheightof{*}}%
\begin{tikzpicture}
  \node (box) [
    rectangle, minimum height=\@wall@starHeight, minimum width=3.4pt,
    inner sep=Opt, line width=Opt,
  ] {};
  \node[
    kite, draw, textbody, fill=textbody,
    scale=0.2, kite vertex angles=60,
    above=Opt of box.north, anchor=north,
 ] {};%
\end{tikzpicture}%
}}
```

8.2 Moons

```
\tikzstyle{moon circle}=[
    circle,
    inner sep=0pt,
    line width=0pt,
    minimum height=8pt,
]

\newlength\@wall@moonRaise
\setlength{\@wall@moonRaise}{-0.7pt}

\newcommand\NewMoon{}
\newcommand\FirstQuarter{}
\newcommand\FirstQuarter{}
\newcommand\LastQuarter{}
\newcommand\LastQuarter{}
\newcommand\LastQuarter{}
\newcommand\Cwall@NewMoon{%
```

```
\raisebox{\@wall@moonRaise}{%
  \tikz\node[moon circle, fill=mooncolor] {};%
}}
\newcommand\@wall@FullMoon{%
\raisebox{\@wall@moonRaise}{%
  \tikz\node[moon circle, draw, mooncolor, line width=0.3pt] {};%
\newcommand\@wall@FirstQuarter{%
\raisebox{\@wall@moonRaise}{%
\begin{tikzpicture}
\node [moon circle, name=waxing] {};
\path[fill=mooncolor]
  (waxing.north) --
  (waxing.south) to[out=-180,in=-90]
  (waxing.west) to[out=90,in=-180]
  (waxing.north);
\end{tikzpicture}%
}}
\newcommand\@wall@LastQuarter{%
\raisebox{\@wall@moonRaise}{%
\begin{tikzpicture}
\node [moon circle, name=waning] {};
\path[fill=mooncolor]
  (waning.north) --
  (waning.south) to[out=0,in=-90]
  (waning.east) to[out=90,in=0]
  (waning.north);
\end{tikzpicture}%
\newcommand\@wall@useDefaultMoons{%
\renewcommand\NewMoon{\@wall@NewMoon}%
\renewcommand\FirstQuarter{\@wall@FirstQuarter}%
\renewcommand\FullMoon{\@wall@FullMoon}%
\renewcommand\LastQuarter{\@wall@LastQuarter}%
\newcommand\plannerMoonSize{\@setfontsize\plannerMoonSize{14}{14}}
\newcommand*\plannerMoonFormat[1]{{\plannerMoonSize #1}}
\newcommand\@wall@planner@NewMoon{\plannerMoonFormat{\CIRCLE}}
\newcommand\@wall@planner@FirstQuarter{\plannerMoonFormat{\LEFTcircle}}
\newcommand\@wall@planner@FullMoon{\plannerMoonFormat{\Circle}}
\newcommand\@wall@planner@LastQuarter{\plannerMoonFormat{\RIGHTcircle}}
\newcommand\@wall@usePlannerMoons{%
\renewcommand\NewMoon{\@wall@planner@NewMoon}%
\renewcommand\FirstQuarter{\@wall@planner@FirstQuarter}%
\renewcommand\FullMoon{\@wall@planner@FullMoon}%
\renewcommand\LastQuarter{\@wall@planner@LastQuarter}%
\@wall@useDefaultMoons
```

9 USER COMMANDS

9.1 \ЅетРното

```
\SetPhoto[bleed=3mm]{June}
```

```
\newcommand\SetPhoto[2][]{%
  \pgfkeys{%
    /Photo/#2/.is family, /Photo/#2,
    /Photo/init,
    defaults, file={#2},
    #1%
  }%
}
```

9.2 \SetCalendar

```
\SetCalendar[bg={opacity=0.8}]{June}
```

```
\newcommand\SetCalendar[2][]{%
  \pgfkeys{%
    /Calendar/#2/.is family, /Calendar/#2,
    /Calendar/init,
    defaults,
    #1%
  }%
}
```

9.3 \SetQuote

```
\SetQuote[position=top right, text align=right]{June}{%
first line\\
second line\\
third line\\
fourth line
}
```

```
\newcommand\SetQuote[3][]{%
  \pgfkeys{%
    /Quote/#2/.is family, /Quote/#2,
    /Quote/init,
    defaults, text={#3},
    #1%
  }%
}
```

9.4 \SETEVENTS

FIXME: Needs at least a \SetEvents{#2} to set defaults.

```
\SetEvents[yshift={10pt}] {August}{%
marks
}{%
text
}
```

```
#1 : options
#2 : month name
#3 : marks
#4 : text
```

```
\newcommand\SetEvents[4][]{%
  \pgfkeys{%
    /Events/#2/.is family, /Events/#2,
    /Events/init,
    defaults, marks={#3}, text={#4},
    #1%
  }%
}
```

9.5 \MonthPage

The /MonthPage key is set in-place for each page, not collecting options per month.

```
\pgfkeys{
  /MonthPage/.is family, /MonthPage,
  layout/.style = {layout handlers/#1/.get = \@wall@month@doLayout},
  put photo/.style = {/put photo/#1},
  defaults/.style = {layout = small landscape, put photo = simple},
  layout handlers/.cd,
  full page/.initial = \@wall@fullPageLayout,
  small landscape/.initial = \@wall@smallLandscapeLayout,
}
```

FIXME: handle case when no $\ensuremath{\texttt{SetPhoto}}$ was called, and so options are not initialized. This happens for example when bleed value is missing, and . get returns $\ensuremath{\texttt{@val}}$:

```
! Missing number, treated as zero.
<to be read again>
\@val
1.30 \MonthPage[layout=full page]{August}
```

For now, just make sure there is a $\ensuremath{\texttt{NonthPage}}$ before $\ensuremath{\texttt{MonthPage}}$.

```
\MonthPage[layout=full page]{June}
```

```
\newcommand\MonthPage[2][]{%
  \pgfkeys{/MonthPage, defaults, #1}%
  \@wall@month@doLayout{#2}%
}
```

9.6 \SetTxt

```
\SetTxt{August Quote}{%
The text of the quote.
}
```

```
#1 : key
#2 : text
```

```
\newcommand\SetTxt[2]{%
  \pgfkeys{%
    /Txt/#1/.is family, /Txt/#1,
    /Txt/init,
    defaults, text={#2},
    }%
}
```



```
\txt{August Quote}
```

```
#1: text key
```

```
\newcommand\txt[1]{%
\pgfkeys{/Txt/#1/text/.get=\@val}%
\@val%
}
```

9.8 \parseMonthEvents

```
\def\@t@monthName{}
\def\@t@eventsCsv{}
\def\@t@markDefaultsCsv{}
\def\@t@filterPred{}
\def\@t@formatFunc{}
\def\@t@formatCmd{}
\def\@t@minEvents{}
\newcommand\monthMarkFmt{\color{textbody}}
\newcommand\symbolSpace{\thinspace}
\newcommand\symbolSeparator{,\symbolSpace}
% #1 = option keys
\newcommand*\parseMonthEvents[1][]{%
\pgfkeys{/parseMonthEvents, defaults, #1,
 month/.get=\@t@monthName,
 filter pred/.get=\@t@filterPred,
 format func/.get=\@t@formatFunc,
 format cmd/.get=\@t@formatCmd,
  events csv/.get=\@t@eventsCsv,
  mark defaults csv/.get=\@t@markDefaultsCsv,
 min events/.get=\@t@minEvents,
}%
\luadirect{
require("wallcalendar-helpers.lua")
monthEvents(
  \luastring{\@t@monthName},
  \@t@filterPred,
  \@t@formatFunc,
  \luastringO{\@t@formatCmd},
  \luastring{\@t@eventsCsv},
  \luastring{\@t@markDefaultsCsv},
  \@t@minEvents
)}}
```

9.9 \parseYearEvents

```
\def\@t@yearNum{}
% #1 = option keys
\newcommand*\parseYearEvents[1][]{%
\pgfkeys{/parseYearEvents, defaults, #1,
 year/.get=\@t@year,
 filter pred/.get=\@t@filterPred,
 format func/.get=\@t@formatFunc,
 format cmd/.get=\@t@formatCmd,
  events csv/.get=\@t@eventsCsv,
  mark defaults csv/.get=\@t@markDefaultsCsv,
 min events/.get=\@t@minEvents,
}%
\luadirect{
require("wallcalendar-helpers.lua")
yearEvents(
 tonumber(\@t@year),
```

```
\@t@filterPred,
  \@t@formatFunc,
  \luastringO{\@t@formatCmd},
  \luastring{\@t@eventsCsv},
  \luastring{\@t@markDefaultsCsv},
  \@t@minEvents
)}}
```

9.10 \parseMonthMarksDayText

NOTE: Tikz will not work with parsing options as with \parseMonthEvents. It will parse the CSV file set with the eventsCsv class option.

```
\newlength\dayTextXshift
\newlength\dayTextYshift
\setlength{\dayTextXshift}{0pt}
\setlength{\dayTextYshift}{0pt}
\newlength\markNumberAbove
\newlength\markNumberRight
\setlength{\markNumberAbove}{-10pt}
\setlength{\markNumberRight}{-3pt}
\newlength\markDayTextAbove
\newlength\markDayTextRight
\setlength{\markDayTextAbove}{-10pt}
\setlength{\markDayTextRight}{-3pt}
\newcommand\parseMonthMarksDayText{%
\luadirect{
require("wallcalendar-helpers.lua")
monthMarksDayText(\luastring{\theMonthName}, nil, \luastring{\dwall@eventsCsv})
tex.sprint(';')
\newcommand\parseMonthMarksDayTextMonth[1] {%
\luadirect{
require("wallcalendar-helpers.lua")
monthMarksDayText(\luastring{#1}, nil, \luastring{\@wall@eventsCsv})
tex.sprint(';')
}}
```

9.11 \parseMonthMarksDayTextUsing

```
\newcommand*\parseMonthMarksDayTextUsing[1]{%
\luadirect{
require("wallcalendar-helpers.lua")
monthMarksDayText(\luastring{\theMonthName}, nil, \luastring{#1})
}}
\newcommand\parseMonthMarksDayTextMonthUsing[2]{%
\luadirect{
require("wallcalendar-helpers.lua")
monthMarksDayText(\luastring{#1}, nil, \luastring{#2})
```

}}

9.12 \parseMonthMarksNote

```
\newcommand*\parseMonthMarksNote{%
\luadirect{
  require("wallcalendar-helpers.lua")
  monthMarksNote(\luastring{\theMonthName}, nil, \luastring{\@wall@eventsCsv}, \luastring{\@wall@markDefaultsCsv})
}}
```

9.13 \parseMonthMarksNoteUsing

```
\newcommand*\parseMonthMarksNoteUsing[1]{%
\luadirect{
require("wallcalendar-helpers.lua")
monthMarksNote(\luastring{\theMonthName}, nil, \luastring{#1}, \luastring{\@wall@markDefaultsCsv})
}}
```

10PAGE LAYOUTS

10.1 Initial setup

Applying a blank, bare pagestyle, the layout macro should position the parts of the page.

```
\makepagestyle{month}
\makeoddhead{month}{}{}{}
\makeevenhead{month}{}{}{}
\makeoddfoot{month}{}{}{}
\makeevenfoot{month}{}{}{}
\makeevenfoot{month}{}{}}
```

These elements are common to all layouts. One Coffin for each part of the page:

- Photo
- Quote
- Calendar
- Events

```
\NewCoffin\@wall@pageWrap
\NewCoffin\@wall@photo
\NewCoffin\@wall@quote
\NewCoffin\@wall@calendar
\NewCoffin\@wall@events
```

```
\newlength\@t@bleed
\newlength\@t@rightOffset
\newlength\@t@minipageWidth
\newlength\@t@calendar@height
\newlength\@t@calendar@hmargin
\newlength\@t@calendar@dayYshift
\newlength\@t@calendar@dayXshift
\newlength\@t@calendar@gridHeight
\newlength\@t@calendar@gridHeightFiveRows
\newlength\@t@calendar@gridHeightSixRows
\newlength\@t@xOffset
\newlength\@t@yOffset
\def\@t@file{}
\newcommand*\monthFmt{}%
\newcommand*\yearFmt{}%
\newcommand*\dayLetterColor{}%
\newcommand*\dayLetterFmt{}%
\newcommand*\dayTextFmt{}%
\newcommand*\quoteFmt{}%
\newcommand*\headingFmt{}%
\newcommand*\calendarFmt{}%
\newcommand*\eventsFmt{}%
```

10.3 Layout Reset, \@wall@layout@reset

A reset macro for the beginning of a layout, to make sure parameters are not carried from one layout to the next.

```
\newcommand\@wall@layout@reset{%
       \renewcommand*\monthFmt{}%
       \renewcommand*\yearFmt{}%
       \renewcommand*\dayLetterColor{}%
       \renewcommand*\dayLetterFmt{}%
       \renewcommand*\dayTextFmt{}%
       \renewcommand*\quoteFmt{}%
       \renewcommand*\headingFmt{}%
       \renewcommand*\calendarFmt{}%
       \renewcommand*\eventsFmt{}%
       \def\@t@file{}%
       \setlength{\@t@calendar@height}{0pt}%
       \setlength{\@t@calendar@hmargin}{0pt}%
       \verb|\cline| \cline{Colored} ay Yshift} {Opt} % $ \cline{Colored} and \cline{Colored} ay Yshift} % $ \cline{Colored} and \cline{Colored} ay Yshift} % $ \cline{Colored} and \cline{Colored} ay Yshift} % $ \cline{Colored}
       \verb|\cline| \cline{Colored} ay X shift $$\{0pt\}\%$ |
       \setlength{\@t@bleed}{0pt}%
       \setlength{\@t@rightOffset}{Opt}%
       \setlength{\@t@minipageWidth}{Opt}%
       \setlength{\@t@xOffset}{Opt}%
       \setlength{\@t@yOffset}{Opt}%
       \setlength{\@t@calendar@gridHeight}{Opt}%
       \setlength{\@t@calendar@gridHeightFiveRows}{0pt}%
       \setlength{\@t@calendar@gridHeightSixRows}{0pt}%
```

10.4 Full Page, \@wall@fullPageLayout

10.4.1 Setup formatting hooks

Renew this in your document when customizing the variables for this layout.

This must not introduce paragraph breaks or whitespace characters, so follow everything with %.

```
\newcommand\fullPageFmt{%
  \renewcommand*\monthFmt{\LARGE}%
  \renewcommand*\dayLetterColor{}%
  \renewcommand*\dayLetterFmt{\tiny}%
  \renewcommand*\dayTextFmt{\small}%
  \renewcommand*\quoteFmt{}%
  \renewcommand*\quoteFmt{}%
  \renewcommand*\headingFmt{\centering}%
  \renewcommand*\calendarFmt{\centering}}%
  \renewcommand*\calendarFmt{\centering}}%
}
```

10.4.2 Init

```
\newcommand\@wall@fullPageLayout[2][]{%
\makeatletter
\renewcommand*\theMonthName{#2}
\@wall@layout@reset
\fullPageFmt
\colorlet{weekday}{black}
\colorlet{weekend}{black!70}
```

10.4.3 Lengths and sizes

Bleed:

```
\pgfkeys{/Photo/#2/bleed/.get=\@val}
\setlength{\@t@bleed}{\@val}
```

```
\def\@t@monthnum{\monthToNum{#2}}
```

Calendar height:

```
% 40mm = 1.5748 inch
% 43mm = 1.6929 inch
\setlength{\QtQcalendarQheight}{40mm + \QtQbleed}

% See if there was a height given in the options
\pgfkeys{/Calendar/#2/minimum height/.get=\Qval}
```

```
\ifx\@val\empty \relax
\else
  \setlength{\@t@calendar@height}{\@val + \@t@bleed}
\fi
```

Calendar horizontal margin:

```
\setlength{\@t@calendar@hmargin}{20pt}
```

Calculate offsets:

10.4.4 Set the coffin contents

Page wrap:

```
\SetHorizontalCoffin\@wall@pageWrap{%
\color{white}%
\rule{\textwidth}{0pt}%
\rule{0pt}{\textheight}%
}
```

Photo:

```
\pgfkeys{/Photo/#2/file/.get=\@t@file}
\SetHorizontalCoffin\@wall@photo{%
  \placeholder[fill=photo-frame] {hasvarnish} {%
    \@wall@photo@putPhoto{\@t@file}%
    }%
}
```

Quote:

```
\SetHorizontalCoffin\@wall@quote{%
  \placeholder[fill=quote-frame]{}{%
  \begin{minipage}{\linewidth}%
    \quoteFmt
  \pgfkeys{/Quote/#2/text/.get=\@val}%
  \@val%
  \end{minipage}%
}%
}
```

Calendar:

```
\SetHorizontalCoffin\@wall@calendar{%
\ifvarnishmask\relax
\else
\begin{tikzpicture}
\node (bg) [
     fill = calendarbg,
      opacity = 0.5,
      minimum width = {\calPaperWidth + 2\@t@bleed},
      anchor=north west,
      /Calendar/#2/bg,
      \% override the style, in case bleed was set above
     minimum height = {\@t@calendar@height},
] at (0,0) {};
\node (heading) [
     below right=10pt and {\@t@rightOffset} of bg.north west,
     anchor=north west,
] {%
\placeholder[fill=heading-frame]{}{%
\begin{minipage}{\@t@minipageWidth}%
\headingFmt
{\tt \{\mbox{\tt } \mbox{\tt } 
\hfill
\strcmpblank{\CalendarAltYear}{%
          {\yearFmt\CalendarYear}%
     {\yearFmt\CalendarYear/\CalendarAltYear}%
\end{minipage}%
}%
};
\node (calendar) [
     below right=35pt and {\colored{0t@right0ffset}} of bg.north west,
     anchor=north west,
] {%
\placeholder[fill=calendar-frame]{}{%
\begin{minipage}{\@t@minipageWidth}%
\calendarFmt
\tikz{\tikzMonthCalendar@fullpage{\@t@monthnum};}%
\end{minipage}%
}%
};
\node (events) [
     below=Opt of calendar.south west,
     anchor=north west,
\placeholder[fill=events-frame]{}{%
\begin{minipage}{\@t@minipageWidth}%
\eventsFmt
\pgfkeys{/Events/#2/text/.get=\@val}%
\@val%
\end{minipage}%
}%
};
\end{tikzpicture}%
\fi
}% \SetHorizontalCoffin
```

10.4.5 Join the coffins

```
\Qwall@photo@setYOffset
\pgfkeys{/Photo/#2/xOffset/.get=\@val}
\addtolength{\QtQxOffset}.get=\@val}
\pgfkeys{/Photo/#2/yOffset/.get=\@val}
\addtolength{\QtQyOffset/.get=\Qval}
\addtolength{\QtQyOffset}.Qet=\Qval}

% NOTE: a small whitespace is visible on the left edge of the page when bleed is Opt, a space must be getting in
\JoinCoffins*\Qwall@pageWrap[1,t]\Qwall@photo[1,t](-\spinemargin -\QtQbleed + \QtQxOffset, \uppermargin + \QtQbl
\pgfkeys{/Quote/#2/xOffset/.get=\Qval}
\setlength{\QtQxOffset}.Qet=\Qval}
\setlength{\QtQxOffset}.Qet=\Qval}
\setlength{\QtQxOffset}.Qet=\Qval}
\JoinCoffins*\Qwall@pageWrap[1,t]\Qwall@quote[1,t](\QtQxOffset, \QtQyOffset)
\JoinCoffins*\Qwall@pageWrap[1,b]\Qwall@calendar[1,b](-\spinemargin -\QtQbleed, \textheight +\uppermargin -\paper
\makeatother
```

10.4.6 Typeset

```
\clearpage
\TypesetCoffin\@wall@pageWrap%
}% \@wall@fullPageLayout
```

10.4.7 Tikz calendar

```
#1 = number of month with leading zero
```

```
\newcommand*{\tikzMonthCalendar@fullpage}[1]{%
\pgfkeys{/Events/\monthName{#1}/marks/.get=\@eventmarks}%
\calendar (cal#1) [alnitak, dates=\CalendarYear-#1-01 to \CalendarYear-#1-last] \@eventmarks;%
}
```

10.5 Small Landscape, \@wall@smallLandscapeLayout

10.5.1 Setup formatting hooks

Renew this in your document when customizing the variables for this layout.

This must not introduce paragraph breaks or whitespace characters, so follow everything with %.

```
\newcommand\smallLandscapeFmt{%
   \renewcommand*\monthFmt{\LARGE}%
   \renewcommand*\yearFmt{\LARGE}%
   \renewcommand*\dayLetterColor{}%
   \renewcommand*\dayLetterFmt{\tiny}%
   \renewcommand*\dayTextFmt{\small}%
   \renewcommand*\quoteFmt{\centering}%
   \renewcommand*\headingFmt{\centering}%
   \renewcommand*\calendarFmt{\centering}%
   \renewcommand*\centering}%
}
```

10.5.2 Init

```
\newcommand\@wall@smallLandscapeLayout[2][]{%
\makeatletter
\renewcommand*\theMonthName{#2}
\@wall@layout@reset
\smallLandscapeFmt
\colorlet{weekday}{black}
\colorlet{weekend}{black!70}
```

10.5.3 Lengths and sizes

Bleed:

```
\pgfkeys{/Photo/#2/bleed/.get=\@val}
\setlength{\@t@bleed}{\@val}
```

```
\def\@t@monthnum{\monthToNum{#2}}
```

Calendar height:

Default height to fit:

- · day headings
- days in a grid, 6 rows
- events
- bottom bleed

```
\setlength{\QtQcalendarQheight}{85mm + \QtQbleed}

% See if there was a height given in the options
\pgfkeys{/Calendar/#2/minimum height/.get=\Qval}
\ifx\Qval\empty \relax
\else
\setlength{\QtQcalendarQheight}{\Qval + \QtQbleed}
\fi
```

Calendar horizontal margin:

```
\setlength{\QtQcalendarQhmargin}{20pt}
```

Calculate offsets:

```
% 5mm: day headings
% 20mm: events
% 6.5mm: vertical spacing
\setlength{\@tmp@a}{20mm + 5mm + 6.5mm}
\setlength{\@tmp@b}{\@t@calendar@height -\@tmp@a}
\setlength{\@t@calendar@dayYshift}{0.1666\@tmp@b}% 1/6 = 0.1666
\setlength{\@t@calendar@gridHeightSixRows}{\@tmp@b}
\setlength{\@t@calendar@gridHeightFiveRows}{\@tmp@b -0.1666\@tmp@b}

% NOTE: the -4pt and -2pt offset is somehow necessary for the sides to align
% with the edges
\setlength{\@t@rightOffset}{\@t@bleed +\@t@calendar@hmargin -4pt}
\setlength{\@t@minipageWidth}{\@t@minipageWidth}{\CalPaperWidth -2\@t@calendar@hmargin -2pt}
\setlength{\@t@calendar@dayXshift}{0.1428\@t@minipageWidth}% 1/7 = 0.1428
```

10.5.4 Set the coffin contents

Page wrap:

```
\SetHorizontalCoffin\@wall@pageWrap{%
  \color{white}%
  \rule{\textwidth}{0pt}%
  \rule{0pt}{\textheight}%
}
```

Photo:

```
\pgfkeys{/Photo/#2/file/.get=\@t@file}
\SetHorizontalCoffin\@wall@photo{%
  \placeholder[fill=photo-frame] {hasvarnish}{%
   \@wall@photo@putPhoto{\@t@file}%
  }%
}
```

Quote:

```
\SetHorizontalCoffin\@wall@quote{%
  \placeholder[fill=quote-frame]{}{%
  \begin{minipage}{\linewidth}%
  \quoteFmt
  \pgfkeys{/Quote/#2/text/.get=\@val}%
  \@val%
  \end{minipage}%
```

```
} %
}
```

Calendar:

```
\SetHorizontalCoffin\@wall@calendar{%
\ifvarnishmask\relax
\else
\begin{tikzpicture}
\node (bg) [
 fill = calendarbg,
  opacity = 1,
 minimum width = {\calPaperWidth + 2\@t@bleed},
 anchor=north west,
 /Calendar/#2/bg,
 % override the style, in case bleed was set above
 minimum height = {\@t@calendar@height},
] at (0,0) {};
\node (heading) [
 below right=10pt and {\@t@rightOffset} of bg.north west,
  anchor=north west,
] {%
\placeholder[fill=heading-frame]{}{%
\begin{minipage}{\@t@minipageWidth}%
\headingFmt
{\monthFmt\@tr@monthNumName{\@t@monthnum}}
\strcmpblank{\CalendarAltYear}{%
   {\yearFmt\CalendarYear}%
}{%
 {\yearFmt\CalendarYear/\CalendarAltYear}%
}%
\end{minipage}%
}%
};
\node (calendar) [
 below right=35pt and {\@t@rightOffset} of bg.north west,
 anchor=north west,
\placeholder[fill=calendar-frame]{}{%
\verb|\begin{minipage}| (\texttt{Qt@minipageWidth})| % \\
\calendarFmt
\hspace*{-5pt}% FIXME
\tikz{\tikzMonthCalendar@smallLandscape{\@t@monthnum};}%
\end{minipage}%
}%
};
\node (events) [
 above right=10mm and {\@t@rightOffset} of bg.south west,
 anchor=south west,
] {%
\placeholder[fill=events-frame]{}{%
\begin{minipage}{\@t@minipageWidth}%
\pgfkeys{/Events/#2/text/.get=\@val}%
\@val%
\end{minipage}%
```

```
}%
};
\end{tikzpicture}%
\fi
}% \SetHorizontalCoffin
```

10.5.5 Join the coffins

Only using yOffset. The quote should be centered on the x axis.

Join coffins so that the photo is in a fixed position, i.e. relative to the pageWrap, not relative to other coffins. It prevents accidental shifts when the other coffins are empty (when varnishmask is on) or have too much content.

```
% The quote has to be centered between the photo and the calendar with manual tweaking.
% The height of the quote is not known, the height of the calendar plus at heading is not known.
% TODO move the photo with /Photo/#2/xOffset and yOffset as at the full page layout

\pgfkeys{\Quote/#2/yOffset/.get=\Qval}
\setlength{\QvallQphoto[hc,b]\QwallQquote[hc,t](Opt, \QvallQpffset)

\pgfkeys{\Photo/#2/yOffset/.get=\Qval}
\setlength{\QvallQphoto[*2]yOffset/.get=\Qval}
\setlength{\QvallQphoto must be set to pull the photo as fixed.
% yOffset must be set to pull the photo down into position

\JoinCoffins*\QwallQpageWrap[hc,t]\QwallQphoto[hc,b](Opt, \uppermargin + \QvallQphoto[fset)
% Calendar is aligned to the bottom of the page.

\JoinCoffins*\QwallQpageWrap[hc,b]\QwallQcalendar[hc,b](Opt, \textheight +\uppermargin -\paperheight -\QvallQt\Deltableed)
\makeatother
```

10.5.6 Typeset

```
\clearpage
\TypesetCoffin\@wall@pageWrap%
}% \@wall@smallLandscapeLayout
```

10.5.7 Tikz calendar

```
#1 = number of month with leading zero
```

```
\newcommand*{\tikzMonthCalendar@smallLandscape}[1]{%
\pgfkeys{/Events/\monthName{#1}/marks/.get=\@eventmarks}%
\calendar (cal#1) [betelgeuse, dates=\CalendarYear-#1-01 to \CalendarYear-#1-last] \@eventmarks;%
}
```

10.6 Tikz styles

10.6.1 day letter headings

```
\tikzstyle{day letter headings}=[%
  day heading/.style={black!90},
  execute before day scope={%
    \ifdate{day of month=1}{%
     \pgfmathsetlength\pgf@xa{\tikz@lib@cal@xshift}%
     \pgfmathsetlength\pgf@ya{\tikz@lib@cal@yshift}%
     \foreach \d in {0,1,2,3,4,5,6} {%
      \pgf@xa=\d\pgf@xa%
      \pgftransformxshift{\pgf@xa}%
      \pgftransformyshift{\pgf@ya}%
      \node (d\d) [anchor=south, day heading] {\dayLetterFmt\@tr@dayLetter{\d}};%
     };%
     }{}
}{}
}
```

10.6.2 days grid

```
\newcount\gridRows
\newcount\gridLines
\newcount\n
\newif\ifGridNoSurround
\GridNoSurroundfalse
\tikzstyle{no grid surround}=[execute before day scope={\GridNoSurroundtrue}]
\tikzstyle{grid surround}=[execute before day scope={\GridNoSurroundfalse}]
\tikzstyle{days grid}=[%
 execute before day scope={%
   \ifdate{day of month=1}{%
      % Determine if the grid is five or six rows
      % 31 day months
     \ifdate{between=01-01 and 01-31, between=03-01 and 03-31, between=05-01 and 05-31, between=07-01 and 07-31
       \ifdate{Saturday,Sunday}{%
          \gridRows=6%
          \setlength\@t@calendar@gridHeight{\@t@calendar@gridHeightSixRows}%
       }{%
          \setlength\@t@calendar@gridHeight{\@t@calendar@gridHeightFiveRdws}%
       }
     }{
      % 30 day months and February
```

```
\ifdate{between=02-01 and 02-last}{%
    \gridRows=5%
    \setlength\@t@calendar@gridHeight{\@t@calendar@gridHeightFiveRdws}%
 }{%
    \ifdate{Sunday}{%
      \gridRows=6%
      \setlength\@t@calendar@gridHeight{\@t@calendar@gridHeightSixRows}%
   }{%
      \gridRows=5%
      \setlength\@t@calendar@gridHeight{\@t@calendar@gridHeightFiveRows}%
% Horizontal lines
\gridLines=\gridRows
\ifGridNoSurround\relax
  \advance\gridLines by 1
  n=0
 \draw [
   gridcolor,
   line width=0.3pt,
   xshift=-0.5\@t@calendar@dayXshift,
   yshift=0.5\@t@calendar@dayYshift,
 ] (0,{-\n\@t@calendar@dayYshift}) -- (7\@t@calendar@dayXshift,{-\n\@t@calendar@dayYshift});
\fi
foreach \n in {1,2,3,4,5,6} {
 \ifnum\n<\gridLines
   \draw [
     gridcolor,
     line width=0.3pt,
     xshift=-0.5\@t@calendar@dayXshift,
      yshift=0.5\@t@calendar@dayYshift,
   ] (0,{-\n\@t@calendar@dayYshift}) -- (7\@t@calendar@dayXshift,{-\n\@t@calendar@dayYshift});
  \fi
}
%
% Vertical lines
\gridLines=7
\ifGridNoSurround\relax
  \advance\gridLines by 1
 n=0
  \draw [
   gridcolor,
   line width=0.3pt,
   xshift=-0.5\@t@calendar@dayXshift,
   yshift=0.5\@t@calendar@dayYshift,
 [ (\n\@t@calendar@dayXshift),0) -- (\n\@t@calendar@dayXshift), (-\gridRows\@t@calendar@dayYshift));
foreach \n in {1,2,3,4,5,6,7} {
  \ifnum\n<\gridLines
    \draw [
      gridcolor,
     line width=0.3pt,
     xshift=-0.5\@t@calendar@dayXshift,
      yshift=0.5\@t@calendar@dayYshift,
   ] ({\n\@t@calendar@dayXshift},0) -- ({\n\@t@calendar@dayXshift},{-\gridRows\@t@calendar@dayYshift});
  \fi
```

```
% If we are not drawing the surrounding lines, it looks better to h
      % some of the top and bottom edges
      \ifGridNoSurround
        \draw [
          color=white,
          line width=6pt,
          xshift=-0.5\@t@calendar@dayXshift,
          yshift={0.5\@t@calendar@dayYshift -1pt},
        ] (0,0) -- (7\@t@calendar@dayXshift,0);
        \draw [
          color=white,
          line width=6pt,
          xshift=-0.5\@t@calendar@dayXshift,
          yshift={0.5\@t@calendar@dayYshift +1pt},
        ] (0,-\gridRows\@t@calendar@dayYshift) -- (7\@t@calendar@dayXshift,-\gridRows\@t@calendar@dayYshift);
      \fi
    }{}%
 }
]
```

10.6.3 headings background rule

```
\tikzstyle{headings background rule}=[
  background rule/.style={black!90, line width=0.3pt, yshift={0.3\@t@calendar@dayYshift -3pt}},
  execute before day scope={%
   \ifdate{day of month=1}{%
   \draw [
      xshift=-0.5\@t@calendar@dayXshift,
      yshift=0.5\@t@calendar@dayYshift,
      background rule,
   ] (0,0) -- (7\@t@calendar@dayXshift,0);
  }{}%
  }
]
```

10.6.4 headings background bar

```
\tikzstyle{headings background bar}=[
  headings background rule,
  background rule/.style={black!20, line width=10pt, yshift={0.3\@t@calendar@dayYshift +3.5pt}},
]
```

10.7 Tikz calendar styles

10.7.1 Betelgeuse, days in a grid

(Alpha Orionis)

```
\tikzstyle{betelgeuse}=[
  no grid surround,
  days grid,
  week list,
  day xshift=\@t@calendar@dayXshift,
  day yshift=\@t@calendar@dayYshift,
  headings background bar,
  day letter headings,
  day heading/.style={black!90, yshift={-0.3\@t@calendar@dayYshift}},
  every day/.append style={anchor=base, inner xsep=Opt, yshift={-0.25\baselineskip}},
  day text={\dayTextFmt\%d-},
]
```

10.7.2 Alnitak, days in one line

(Zeta Orionis)

```
\tikzstyle{alnitak}=[
 day list right,
 day xshift={Opt},
 every month/.append style={anchor=base, inner xsep=0pt, yshift=4mm, xshift=-\widthof{\space}},
 day text={\dayTextFmt\%d-},
 every day/.append style={anchor=base, inner xsep=0pt},
 execute before day scope={
   % === Moving the day number ===
   % A small offset seems to improve the result, the last day gets closer to the end of the linewidth
   \pgftransformxshift{0.01em}
   \pgfcalendarjuliantodate{\pgfcalendarendjulian}{\currentyear}{\currentmonth}{\lastday}
   % Width of month day digits from 1 - 28
   \sting 100 \
   \pgfmathparse{(\linewidth - \@tmp@a - \@tmp@b * (\lastday-28)) / \lastday}
   \pgftransformxshift{\pgfmathresult}
   \let\%=\pgfcalendarshorthand
   \ \left( \frac{d^{-}}{\mathbf{d}} \right) 
   \pgftransformxshift{\@tmp@a}
   % === Weekday letter above the day ===
   \ifdate{weekend}{\def\dayLetterColor{\color{weekend}}}{\def\dayLetterColor{\color{weekday}}}%
   \node[anchor=south,yshift=5mm,inner sep=0pt]{%
     \dayLetterColor\dayLetterFmt\@tr@dayLetter{\pgfcalendarcurrentweekday}%
   };%
 },
```

11YEAR PLANNER

11.1 Tikz calendar styles

11.1.1 Year Planner Portrait

```
\newcommand\plannerPortraitMonthFmt{\fontsize{11}{11}\selectfont\color{darkgold}}
\newcommand\plannerPortraitDayFmt{\fontsize{8}{8}\selectfont\color{plannerdatenum}}
\tikzstyle{year planner portrait}=[
  week list.
  month text={\plannerPortraitMonthFmt\@tr@monthNumName{\pgfcalendarcurrentmonth}},
  day text={\plannerPortraitDayFmt\%d-},
  every month/.append style={%
    anchor=south,
    inner xsep=0pt,
    yshift=5mm,
    xshift=2.5mm,
  day letter headings,
  day heading/.style={gray, xshift=0pt, scale=0.85},
  month label above centered,
  every day/.style={anchor=mid},
]
```

11.1.2 Year Planner Landscape

```
\newcommand\plannerLandscapeDateDayFont{}
\newcommand\plannerLandscapeDayFont{}
\newcommand\plannerLandscapeMonthFont{}
\newcommand\plannerLandscapeMonthFmt{%
  \plannerLandscapeMonthFont%
  \fontsize{15}{18}\selectfont%
  \color{gold}\bfseries%
}
\newcommand\plannerLandscapeDayFmt{%
  \plannerLandscapeDayFont%
  \fontsize{10}{12}\selectfont%
\verb|\newcommand*\plannerLandscapeDateDayFormat[1]| {\%}
  \plannerLandscapeDateDayFont%
  \fontsize{8}{11}\selectfont%
  #1 %
}
\newcommand\plannerLandscapeBeginDayScopeHook{%
  \ifdate{weekend}{\color{black!60}}{}
\newlength\plannerLandscapeDayXShift
\newlength\plannerLandscapeMonthYShift
% Assuming 25mm to fit 'September'
\setlength{\@tmp@a}{\calPaperWidth - \@wall@leftMargin - \@wall@rightMargin - 25mm}
\% Max week shift is 6 = Sunday. 31 days + 6 = 37. 1/37 = 0.027
\setlength{\plannerLandscapeDayXShift}{0.027\@tmp@a}
% Assuming 10mm for day headings (M T W...) and some padding
\setlength{\@tmp@a}{\calPaperHeight - \@wall@topMargin - \@wall@bottomMargin - 10mm}
% 1/12 = 0.0833
\setlength{\plannerLandscapeMonthYShift}{0.0833\@tmp@a}
```

```
\tikzstyle{year planner landscape}=[
  month list,
  day xshift=\plannerLandscapeDayXShift,
  month yshift=\plannerLandscapeMonthYShift,
  every month/.append style={anchor=base, inner xsep=0pt},
  month text={\plannerLandscapeMonthFmt \%mt},
  day text={\plannerLandscapeDayFmt \%d-},
  every day/.append style={anchor=base, inner xsep=0pt},
  month label left,
  execute at begin day scope={
    \plannerLandscapeBeginDayScopeHook
    % Weekday headers in January
    \left\{ \begin{array}{ll} \left( 1-31 \right) & = 0.05 \end{array} \right.
       \def\l{\ifcase\pgfcalendarcurrentweekday M\or T\or W\or T\or S\or S\fi}%
       \ifdate{weekend}{\def\daylabelcolor{gold}}{\def\daylabelcolor{black}}%
      \node[anchor=south,yshift=5mm,inner sep=0pt]{\color{\daylabelcolor}\plannerLandscapeDateDayFormat{\l}};%
    141
    % Weekday headers in December
    \left\{ \begin{array}{ll} \text{ifdate} \left\{ \text{between=12-01 and 12-31} \right\} \right\} \end{array}
       \pgftransformyshift{-3mm}%
       \def\l{\ifcase\pgfcalendarcurrentweekday M\or T\or W\or T\or F\or S\fi}%
       \ifdate{weekend}{\def\daylabelcolor{gold}}{\def\daylabelcolor{black}}%
       \node[anchor=south,yshift=5mm,inner sep=0pt]{\color{\daylabelcolor}\plannerLandscapeDateDayFormat{\l}};%
    }{}
  }
]
```

11.1.3 Year Planner Landscape Grid

```
\newcommand\plannerGridMonthFont{}
\newcommand\plannerGridDateDayFont{}
\newcommand\plannerGridNotesFont{}
\newcommand\plannerGridDayFont{}
\newcommand\plannerGridYearNumberFont{}
\newcommand\plannerGridYearNumberFmt{%
  \plannerGridYearNumberFont%
  \fontsize{11}{11}\selectfont%
  \color{white}%
\newcommand\plannerGridMonthFmt{%
  \plannerGridMonthFont%
  \fontsize{13}{13}\selectfont%
  \color{white}%
\newcommand\plannerGridDayFmt{%
  \plannerGridDayFont%
  \fontsize{11}{11}\selectfont%
}
\verb|\newcommand| plannerGridDateDayFmt{%}|
  \plannerGridDateDayFont%
  \fontsize{9}{9}\selectfont%
  \color{black!80}%
}
```

```
\newcommand{\plannerGridNotesFmt}{%
  \plannerGridNotesFont%
  \fontsize{11}{11}\selectfont%
\newcommand\plannerGridBeginDayScopeHook{%
  \ifdate{weekend}{\color{black!60}}{}
\newlength\plannerGridColXShift
\newlength\plannerGridRowYShift
\newlength\plannerGridCalendarWidth
\newlength\plannerGridCalendarHeight
\newlength\plannerGridDayHeadingsHeight
\newlength\plannerGridMonthNamesWidth
\newlength\plannerGridNotesHeight
\setlength{\plannerGridNotesHeight}{10mm}
\setlength{\plannerGridCalendarWidth}{\calPaperWidth - \@wall@leftMargin - \@wall@rightMargin}
\setlength{\plannerGridCalendarHeight}{\calPaperHeight - \@wall@topMargin - \@wall@bottomMargin - \plannerGridNo
\setlength{\plannerGridDayHeadingsHeight}{10mm}
\setlength{\plannerGridMonthNamesWidth}{10mm}
\setlength{\@tmp@a}{\plannerGridCalendarWidth - \plannerGridMonthNamesWidth}
% 37 columns. 1/37 = 0.027. Max week shift is 6 = Sunday. 31 days + 6 = 37.
\setlength{\plannerGridColXShift}{0.027\@tmp@a}
\setlength{\QtmpQa}{\plannerGridCalendarHeight - 2\plannerGridDayHeadingsHeight}
% 12 rows. 1/12 = 0.0833
\setlength{\plannerGridRowYShift}{0.0833\@tmp@a}
\newcounter{verticalCount}
\tikzstyle{year planner landscape grid days}=[
  month list,
  day xshift=\plannerGridColXShift,
  month yshift=\plannerGridRowYShift,
  day text={\plannerGridDayFmt \%d-},
  every day/.append style={anchor=base, yshift=-12pt, inner xsep=0pt},
  execute at begin day scope={%
    % White fill to cover the page background color
    \node (cell) [
      rectangle,
      fill = white,
      minimum height = \plannerGridRowYShift - 1pt,
      minimum width = \plannerGridColXShift - 1pt,
      xshift = -0.5\plannerGridColXShift,
      yshift = 4.5pt,
    ] {};%
    \ifdate{Monday}{%
      \node (a) [above left = 15pt and -3.5pt of cell.west] {};
      \node (b) [below left = 15pt and -3.5pt of cell.west] {};
      \node (c) [right = 10pt of cell.west] {};
      \path [on layer = one, fill = pagebgcolor] (a.south) -- (b.north) -- (c.west) -- (a.south);
    }{}%
    \ifdate{Sunday}{%
      \node (a) [above left = 15pt and {-3.5pt + 1pt} of cell.east] {};
```

```
\node (b) [below left = 15pt and {-3.5pt + 1pt} of cell.east] {};
\node (c) [right = {10pt - 1pt} of cell.east] {};
\path [on layer = two, fill = white] (a.south) -- (b.north) -- (c.west) -- (a.south);%
}{}%
\plannerGridBeginDayScopeHook%
},
]
```

11.2 Helpers

```
\newcommand\plannerMarksDayTextCSV{\@wall@eventsCsv}
\newcommand\plannerMarksNoteCSV{\@wall@eventsCsv}
\newcommand\plannerMarkDefaultsCsv{}
\newcommand\@wall@plm[1]{%
\luadirect{
require("wallcalendar-helpers.lua")
monthMarksDayText(\luastring{#1}, nil, \luastring{\plannerMarksDayTextCSM})
tex.sprint(';')
}}
\newcommand\@wall@plmYear{%
\luadirect{
require("wallcalendar-helpers.lua")
yearMarksDayText(tonumber(\CalendarYear), nil, \luastring{\plannerMarksDayTextCSV})
tex.sprint(';')
}}
\newcommand\@wall@plNotes{%
\luadirect{
require("wallcalendar-helpers.lua")
yearMarksNote(tonumber(\CalendarYear), nil, \luastring{\plannerMarksNote(SV}, \luastring{\plannerMarkDefaultsCsv
\newcommand\@wall@plNotesOneCalendar{%
\luadirect{
require("wallcalendar-helpers.lua")
yearMarksNote(tonumber(\CalendarYear), nil, \luastring{\plannerMarksNote(SV), \luastring{\plannerMarkDefaultsCsv
\newcommand\plannerEvents{%
\parseYearEvents[filter pred = hasNote] %
```

11.3 \YEARPLANNERPORTRAIT

```
\newcommand\YearPlannerPortrait{%
\@wall@useDefaultMoons%
\begin{tikzpicture}[every calendar/.style={year planner portrait}]%
\matrix[column sep=1.5em, row sep=5mm] {
    \calendar(cal01)[dates=\CalendarYear-01-01 to \CalendarYear-01-last]
    \calendar(cal02)[dates=\CalendarYear-02-01 to \CalendarYear-02-last]
    \calendar(cal03)[dates=\CalendarYear-03-01 to \CalendarYear-03-last]
    \calendar(cal04)[dates=\CalendarYear-04-01 to \CalendarYear-04-last]
    \calendar(cal04)[dates=\CalendarYear-04-01 to \CalendarYear-04-last]
}
```

```
\calendar(cal05)[dates=\CalendarYear-05-01 to \CalendarYear-05-last] \@wall@plm{May};
                                                                                                                                                                                                                                                                                                                                                \pgfmatrixnextce
             \calendar(cal06)[dates=\CalendarYear-06-01 to \CalendarYear-06-last]
                                                                                                                                                                                                                                                              \@wall@plm{June};
             \calendar(cal07)[dates=\CalendarYear-07-01 to \CalendarYear-07-last]
                                                                                                                                                                                                                                                             \@wall@plm{July};
                                                                                                                                                                                                                                                                                                                                                \pgfmatrixnextce
             \calendar(cal08)[dates=\CalendarYear-08-01 to \CalendarYear-08-last]
                                                                                                                                                                                                                                                              \@wall@plm{August};
                                                                                                                                                                                                                                                                                                                                                \pgfmatrixnextce
             \calendar(cal09)[dates=\CalendarYear-09-01 to \CalendarYear-09-last]
                                                                                                                                                                                                                                                              \@wall@plm{September};
             \calendar(cal10)[dates=\CalendarYear-10-01 to \CalendarYear-10-last]
                                                                                                                                                                                                                                                              \@wall@plm{October};
                                                                                                                                                                                                                                                                                                                                                 \protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\protect\pro
             \calendar(cal11)[dates=\CalendarYear-11-01 to \CalendarYear-11-last]
                                                                                                                                                                                                                                                               \@wall@plm{November};
                                                                                                                                                                                                                                                                                                                                               \pgfmatrixnextce
             \calendar(cal12)[dates=\CalendarYear-12-01 to \CalendarYear-12-last]
                                                                                                                                                                                                                                                              \@wall@plm{December};
      \@wall@plNotes
\end{tikzpicture}%
```

11.4 \YEARPLANNERLANDSCAPE

```
\newcommand\YearPlannerLandscape{%
\@wall@usePlannerMoons%
\begin{tikzpicture}%
  \calendar (cal) [
    year planner landscape,
    dates=\CalendarYear-01-01 to \CalendarYear-12-31,
    ] \@wall@plmYear;
  \@wall@plNotesOneCalendar
\end{tikzpicture}%
}
```

11.5 \YEARPLANNErLANDSCAPEGRID

```
\newcommand\YearPlannerLandscapeGrid{%
\@wall@usePlannerMoons%
\begin{tikzpicture}
 % Background frame
 \node (bg) [
   rectangle,
   inner sep = Opt,
   minimum width = \plannerGridCalendarWidth,
   minimum height = \plannerGridCalendarHeight,
 \foreach \x/\m in {1/\xJanShort, 2/\xFebShort, 3/\xMarShort, 4/\xAprShort,
   5/\xMayShort, 6/\xJunShort, 7/\xJulShort, 8/\xAugShort, 9/\xSepShort,
   10/\xOctShort, 11/\xNovShort, 12/\xDecShort}
    \setlength{\@tmp@a}{\x\plannerGridRowYShift + \plannerGridDayHeadingsHeight}
   % Month labels
   \node [
     below = \@tmp@a of bg.north west,
      yshift = 0.5\plannerGridRowYShift,
     xshift = 0.5\plannerGridColXShift - 2pt,
      anchor = base,
     rotate = 90,
```

```
[ ] {\plannerGridMonthFmt\MakeUppercase{\textls*{\m}}};
    % Horizontal lines
    \addtolength{\@tmp@a}{-\plannerGridRowYShift}
    \node (h-a-\x) [below = \0tmp@a of bg.north west] \{\};
    \node (h-b-\x) [below = \0tmp@a of bg.north east] \{\};
    \draw [gridcolor] (h-a-\x) -- (h-b-\x);
% 13th line
\setlength{\@tmp@a}{12\plannerGridRowYShift + \plannerGridDayHeadingsHeight}
\label{local-condition} $$ \node (h-a-13) [below = \0tmp@a of bg.north west] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \node (h-b-13) [below = \0tmp@a of bg.north east] {}; \\ \
\draw [gridcolor] (h-a-13) -- (h-b-13);
% Year number in the corner
\node [
    right = Opt of bg.north west,
    xshift = 0.5\plannerGridMonthNamesWidth,
    yshift = -0.5\plannerGridDayHeadingsHeight - 5pt,
    anchor = base,
[ ] {\plannerGridYearNumberFmt\CalendarYear};
\setcounter{verticalCount}{1}
foreach in {0,1,2,3,4,5} {
    0/\xMondayDayLetter,
        1/\xTuesdayDayLetter,
        2/\xWednesdayDayLetter,
        3/\xThursdayDayLetter,
        4/\xFridayDayLetter,
        5/\xSaturdayDayLetter,
        6/\xSundayDayLetter}
         \addtocounter{verticalCount}{1}
         \ifnumgreater{\value{verticalCount}}{38}{\relax}{
             \setlength{\@tmp@a}{7\plannerGridColXShift}
             \setlength{\@tmp@a}{\i\@tmp@a + \j\plannerGridColXShift + \plannerGridMonthNamesWidth}
             % Day headings (top and bottom)
             \node [
                 right = \@tmp@a of bg.north west,
                 xshift = 0.5\plannerGridColXShift + 4pt,
                 yshift = -0.5\plannerGridDayHeadingsHeight - 5pt,
                 anchor = base,
             ] {\plannerGridDateDayFmt \d};
             \node [
                 right = \@tmp@a of bg.south west,
                 xshift = 0.5\plannerGridColXShift + 4pt,
                 yshift = 0.5\plannerGridDayHeadingsHeight - 5pt,
                 anchor = base,
             [ ] {\plannerGridDateDayFmt \d};
             % % Vertical lines
             % \draw [gridcolor] (v-a-\i-\j) -- (v-b-\i-\j);
```

```
}
}
}

calendar (cal) [
 year planner landscape grid days,
 dates=\CalendarYear-01-01 to \CalendarYear-12-31,
 below right = Opt and Opt of bg.north west,
 anchor = north west,
 yshift = -\plannerGridDayHeadingsHeight - 3mm,
 xshift = \plannerGridMonthNamesWidth + 0.5\plannerGridColXShift + 4pt,
 \@wall@plmYear;
 \@wall@plNotesOneCalendar
\end{tikzpicture}%
}
```

11.6 \YEARPLANNERLANDSCAPEGRIDPAGE

12TRANSLATION KEYS

```
% Load internal translations
\InputIfFileExists{i18n/\@wall@calendarLanguage.tex}{}%
{\ClassError{wallcalendar}{File Not Found: i18n/\@wall@calendarLanguage.tex}{}}

% Load user translations if the option was set and translationsAutoload as true
\newcommand\LoadTranslations{%
\InputIfFileExists{\@wall@translationsInputFile}{}%
{\ClassWarning{wallcalendar}{File Not Found: \@wall@translationsInputFile}{}}}
\notblank{\@wall@translationsInputFile}{%
\iftranslationsAutoload \LoadTranslations \fi}
```

Use \ifcase instead of a \luadirect array lookup, otherwise Portuguese day headings such as \def\xMondayDayLetter{{2a}} cause an er-

ror.

```
#1 : month number, returns the translation
```

```
\newcommand*\@tr@monthNumName[1]{%
\ifcase#1 \relax\or \xJanuary\or \xFebruary\or \xMarch\or \xApril\or \xMay\or \xJune\or \xJuly\or \xAugust\or \xSeptember\or \xOctober\or \xNovember\or \xDecember\fi}
```

```
#1 : weekday number, returns the one letter translation
```

```
\newcommand*\@tr@dayLetter[1]{%
\ifcase#1 \xMondayDayLetter\or \xTuesdayDayLetter\or \xWednesdayDayLetter\or \xThursdayDayLetter\or \xSaturdayDayLetter\or \xSundayDayLetter\fi}
```

13HELPER MACROS

Doing this in Lua to make blasted sure the result is just a string

```
#1 : month name in English, returns zero padded number
```

```
\newcommand*{\monthToNum}[1]{%
\luadirect{
 local monthToNum = {
   january = '01',
february = '02',
             = '03',
   march
            = '04',
   april
             = '05',
   may
   june
             = '06',
             = '07',
   july
             = '08',
   august
   september = '09',
   october = '10',
   november = '11',
   december = '12',
 local key = string.lower('#1')
 tex.sprint(monthToNum[key])
}}
```

```
#1 : month number, returns the name in English
```

```
\newcommand*\monthName[1]{%
% \ifcase might be just fine here
\luadirect{
  local monthName = {
     'January', 'February', 'March', 'April', 'May', 'June', 'July',
     'August', 'September', 'October', 'November', 'December',
  }
  local key = tonumber('#1')
  tex.sprint(monthName[key])
}}
```

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```
% End of wallcalendar.cls
```