User's Guide to the evweek class*

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2005/01/23

Abstract

This class, a simple spinn-off of the official weekly, incorporates small bug-fixes and some extensions. To use it you have to install the LaTeX Calendar Bundle and, optionally, the evautofl package.

Contents

1 Brief Introduction

For the original documentation see the files `calguide.tex` and `weekly.dtx` distributed in the LaTeX Calendar Bundle.

This manual is typeset according to the conventions of the LaTeX DOCSTRIP utility which enables the automatic extraction of the LaTeX macro source files [GMS94].

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*This file is version number 0.4; it was last revised on 2005/01/23.

2 The weekly calendar

The **evweek** class prints weekly calendars for use with a Filofax™ or other personal planner. Pages are framed with cut-lines, and punch-marks show where to cut holes at the edge of the page. For each date, the style initially attempts to set the event and date text as a single column. If the text overflows the box for that date, the style will attempt to recover by resetting the text as two columns.

It has the following special features and limitations:

- The text of the calendar is always rotated, using the **lscape** package from the **graphics** bundle. As a result, calendars generated using this package can only be printed using `pdflatex`, `dvips` or other PostScript™ print drivers supported by the **graphics** bundle.
- If the **graphics** bundle has not been configured for your system, you can specify the driver and other options for its use by giving LaTeX options to the class when it is loaded.
- While the paper size can be specified using options like `a4paper`, this will have no effect on the calendar size: it is governed by calendar options only.
- Documents created with this style should contain nothing other than a calendar environment.

2.1 Original Calendar Options

The following formatting options are supported by the `weekly` environment[1]:

`firstday` This is the starting day of the calendar, expressed as an integer. Friday (the default) is 5.

`punchcluster` Most filofaxes have two or or more clusters or groups of punches to hold the pages in place. This option sets the number of punches in each cluster. The default is three.

`intraspace` This governs the space between punchouts within a group. The default is 19.25mm.

`punchgroups` This option sets the number of groups of punches. The default is two groups.

`interspace` This option sets the distance between the groups of punches. The default is 51.25mm.

`pageheight` This fixes the height of a filofax page (not the physical paper on which it is printed). The default is 172mm.

`pagewidth` This fixes the width of an individual page. The physical printed area will be twice this figure. The default is 95mm, for a 190mm printed area.

`grip` This adjusts the distance from the edge of the page to the outer edge of the punchouts. Default is 5mm.

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[1] All but the first one are provided by the **autofilo** package (see the LaTeX Calendar Bundle) or the **evautofl** package.

`punchmargin` This adjusts the distance from the edge of the text to the inner edge of the punchouts. Default is 2mm.

`punchpoints` Size, in points, of punchouts[2]. Defaults to 15.

`topspace` Gap between top of filofax page and top of text page.

`bottomspace` Gap between bottom of filofax page and bottom of text page.

`jawspread` If set to a positive length, this places a set of rules the width of the punchmarks on either side of each punchhole, centered on its center and spread the distance specified. This can be useful as a guide with some one-hole punches that are designed to be used "blind".

`jawline` Sets the width of the lines used to make jawmarks. Default value is `0.4 pt`.

2.2 New Calendar Options

The following new formatting options are supported by the weekly environment as provided by this class only:

`titletype` This set the default typeface for the titlebox of each entry; default is `\bfseries`.

`daynumbertype` This set the typeface for the day number, allowing a finer control over the typesetting of each box; default is empty.

`daynametype` This set the typeface for the day name, allowing a finer control over the typesetting of each box; default is empty.

`monthtype` This set the typeface for month name, allowing a finer control over the typesetting of each box; default is empty.

`yeartype` This set the typeface for year number, allowing a finer control over the typesetting of each box; default is empty.

`intralineskip` This set the distance between lines that appears in every day's box; set it to negative values to disable line printing; default is `-1 pt`.

`bottomlineskip` This set a small gap between the last line that will eventually appear in every day's box and the bottom of that same box; default is `0 pt`.

`ruleheight` This set the lines' height; default is `0.1 pt`.

Each of these parameters can be set indipendently, but the `titletype` option has an overall effect. For example:

```
titletype=\itshape, monthtype=\bfseries
```

will typeset the whole titlebox with an italic shape font and *only* the month name using a bold expanded, italic font (if available).

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[2] Please, note that the original documentation reads `punchsize` but the option name is really `punchpoints`. Also, take care to write no dimension specification after the number.

2.3 Fixes

I should not call them *real* bug-fixes, but I have changed some bits of code that handle the layout of the titlebox of each day.

The original implementation just put the titlebox's elements in a TeX box and then built a little sandwich with two `\hrule`; this has the unpleaseant effect that the titleboxes can be of different height, so I've put the titleboxes in a `\vbox` of `\baselineskip` height.

2.4 New Class Options

`traditional` The evweek class needs autofilo or evautofl package to draw the page frame; the default behaviour is to use evautofl but if the `traditional` option is passed to evweek or evautofl is not available, then it will revert to use the old autofilo package.

`compact` With this option, evweek puts a whole week on a single framed page, without any empty scratching box, starting from Monday (starting day can be customized using `firstday`); the original input for this option came from Luis Rivera.

`ferial` With this option, evweek puts Monday to Wednesday on the left hand pages and Thurday to Sunday on the right hand ones, with Saturday and Sunday taking half the space of the other days and no empty scratching box[3]; the original request for this option came from Geert Kloosterman.

3 The Class File

3.1 Preliminaries

Use LaTeX 2ε, and tell the user who we are.

```
⟨*class⟩
\NeedsTeXFormat{LaTeX2e}[1995/06/01]
\ProvidesClass{evweek}[2005/01/23 v0.4 evWeekly Calendar]
```

Define some more variables and switches for use in the body of the style.

```
\newif\ifwk@overthetop
\newcount\wk@firstday
\newcount\wk@tempcount
\newlength\wk@itemheight
\newif\ifwk@traditional
\newif\ifwk@compact
\newif\ifwk@ferial
\newskip\wk@intralineskip
\newskip\wk@bottomlineskip
\newlength\wk@ruleheight
```

3.2 Options

Things like page and type size go to the article class.

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[3] Customization of starting day via `firstday` is not taken into account.

```
\DeclareOption*{\PassOptionsToClass{\CurrentOption}{article}}
\DeclareOption{traditional}{\wk@traditionaltrue}
\DeclareOption{compact}{\wk@compacttrue\wk@ferialfalse}
\DeclareOption{ferial}{\wk@ferialtrue\wk@compactfalse}
```

We use the generic language options, the same as other parts of the system.

```
\input{calopts.cfg}
\InputIfFileExists{dates.cfg}{}{}
\ProcessOptions
```

3.3 Option Postprocessing

Now that the options lists are available to us, we can start loading packages. The following packages are always loaded.

```
\LoadClass{article}
\RequirePackage{calendar}
\RequirePackage{lscape}
\RequirePackage{multicol}
```

If evautofl is not available, we simulate the effect of `traditional` to keep going.

```
\IfFileExists{evautofl.sty}{\relax}{\wk@traditionaltrue}
\ifwk@traditional
  \RequirePackage{autofilo}
\else
  \RequirePackage{evautofl}
\fi
```

It is now time to do the final page formatting.

```
\AtBeginDocument{%
```

Eliminate page numbers and indenting.

```
  \pagestyle{empty}
  \parindent=0pt
  \multicolsep=0pt}
```

3.4 Calendar Setup

Define some key and their default values for use by the calendar environment.

```
\define@key{opt}{firstday}{%
  \wk@firstday=#1}
\ifwk@compact
  \wk@firstday=1
\else\ifwk@ferial
  \wk@firstday=4
\else
  \wk@firstday=5
\fi\fi
\define@key{opt}{titletype}{%
  \def\wk@titletype{#1}}
\def\wk@titletype{\bfseries}
\define@key{opt}{daynumbertype}{%
  \def\wk@daynumbertype{#1}}
\def\wk@daynumbertype{}
\define@key{opt}{daynametype}{%
  \def\wk@daynametype{#1}}
```

```
\def\wk@daynametype{}
\define@key{opt}{monthtype}{%
  \def\wk@monthtype{#1}}
\def\wk@monthtype{}
\define@key{opt}{yeartype}{%
  \def\wk@yeartype{#1}}
\def\wk@yeartype{}
\define@key{opt}{intralineskip}{%
  \wk@intralineskip=#1}
\wk@intralineskip=-\p@
\define@key{opt}{bottomlineskip}{%
  \wk@bottomlineskip=#1}
\wk@bottomlineskip=\z@
\define@key{opt}{ruleheight}{%
  \wk@ruleheight=#1}
\wk@ruleheight=0.1pt
```

Internal re-definition of `\hrulefill` with variable height.

```
\def\wk@hrulefill{\leavevmode\leaders\hrule height\wk@ruleheight
  \hfill\kern\z@}
```

We declare eight boxes (or just seven if `compact` or `ferial` options are in place), one for each day of the week plus an extra.

```
\wk@tempcount=0
\expandafter\newsavebox\csname wk@box\the\wk@tempcount\endcsname
\ifwk@compact
  \loop
    \advance\wk@tempcount by 1
    \ifnum\wk@tempcount<7
      \expandafter\newsavebox\csname wk@box\the\wk@tempcount\endcsname
  \repeat
\else\ifwk@ferial
  \loop
    \advance\wk@tempcount by 1
    \ifnum\wk@tempcount<7
      \expandafter\newsavebox\csname wk@box\the\wk@tempcount\endcsname
  \repeat
\else
  \loop
    \advance\wk@tempcount by 1
    \ifnum\wk@tempcount<8
      \expandafter\newsavebox\csname wk@box\the\wk@tempcount\endcsname
  \repeat
\fi\fi
```

We need a macro to lay the boxes out on a page. We define this now, with parameterized measurements that will be determined by the settings given to the environment within which this expands.

```
\def\wk@spitoutboxes{%
  \wk@tempcount=-1
  \ifwk@compact
    \loop
      \advance\wk@tempcount by 1
      \ifnum\wk@tempcount<7
        \hbox to\linewidth{%
```

```
          \expandafter\usebox\csname wk@box\the\wk@tempcount\endcsname}%
    \repeat
  \else\ifwk@ferial
    \loop
      \advance\wk@tempcount by 1
      \ifnum\wk@tempcount<7
        \hbox to\linewidth{%
          \expandafter\usebox\csname wk@box\the\wk@tempcount\endcsname}%
    \repeat
  \else
    \loop
      \advance\wk@tempcount by 1
      \ifnum\wk@tempcount<3
        \hbox to\linewidth{%
          \expandafter\usebox\csname wk@box\the\wk@tempcount\endcsname}%
    \repeat
    \hbox to\linewidth{%
      \vbox to\wk@itemheight{%
        \hrule width\linewidth height0.4pt depth0pt
        \hbox to\linewidth{\hfil}%
        \vfill}}%
    \wk@tempcount=2
    \loop
      \advance\wk@tempcount by 1
      \ifnum\wk@tempcount<7
        \hbox to\linewidth{%
          \expandafter\usebox\csname wk@box\the\wk@tempcount\endcsname}%
    \repeat
  \fi\fi}
```

We define a macro that calculates the height of the date boxes. The value of `\normallineskip` sneaks in between stacked `\hbox`es, so we need to account for that.

```
\def\wk@getitemheight{%
  \setlength{\wk@itemheight}{\textheight}
  \addtolength{\wk@itemheight}{-4pt}
  \addtolength{\wk@itemheight}{-5\normallineskip}
  \ifwk@compact
    \divide\wk@itemheight by 7
  \else\ifwk@ferial
    \divide\wk@itemheight by 3
  \else
    \divide\wk@itemheight by 4
  \fi\fi}%
```

3.5 Calendar Definition

The calendar definition itself consists of a single command and its associated arguments.

```
\newcalendar%
```

We give the environment a name.

```
  {weekly}
```

We are producing DVI, so we use the standard macro for dropping text into the hopper.

```
{\cal@insert}
```

Starting day for the calendar is not fixed here, because we do not pad with blank entries. Season to taste. Use integers 0 through 6. A value over 7 means no padding.

```
{8}
```

The length of a group is one week.

```
{7}
```

The length of a subgroup is one week.

```
{7}
```

We do not need delimiters between output items, since we're just building boxes.

```
{\relax}
```

Increment the date counter with every item.

```
{I}
```

Define the header.

```
{\expandafter\autofilo\expandafter{\cal@optionslist}\wk@getitemheight}
```

We define the end of the calendar. This spits out all of the boxes one last time and closes the page formatting environment.

```
{\wk@spitoutboxes\endautofilo}
```

We define the way to open a new group. This spits out all of the boxes built for a page of text.

```
{\wk@spitoutboxes}
```

We define a way to end a subgroup. In this case, we just relax.

```
{\relax}
```

We set up to require a month and day in the environment typed into the user's document.

```
{\dates@requiremonthtrue\dates@requiredaytrue}
```

The next section runs after the calendar dates have been scanned from the environment, but before the table is opened.

We step back, if necessary, from the designated first date to reach the starting day for pages. (Default is Friday.)

```
{\global\dates@date=\cal@range@start
 \prevday\wk@firstday
 \cal@range@start=\dates@date
 \caldate
```

We tell the user where we are starting.

```
 \message{^^JStart: \theshortweekday\space
   \theday\space\theshortmonth\space\theyear}%
```

Then we jump forward, again if necessary, to the next day just before the starting day of the week.

```
 \global\dates@date=\cal@range@end
 \caldate
 \advance\wk@firstday by -1
 \ifnum\wk@firstday=7
```

```
   \wk@firstday=0
 \fi
 \nextday\wk@firstday
 \caldate
 \cal@range@end=\dates@date
```

We let the user know where we plan to stop.

```
 \message{^^JEnd: \theshortweekday\space
   \theday\space\theshortmonth\space\theyear^^J}%
```

We jump back to the starting date and reset the human-side values.

```
 \global\dates@date=\cal@range@start
 \caldate}
```

Events are delimited by `\par`.

```
{\par}
```

The next argument is dropped on DVI for each item. We use it here to fetch the text of appointments and events to the standard list macros, using the standard text-fetching commands. Each generates a stack delimited by the phrase that was set above.

```
{\cal@get@appointments\cal@get@events}
```

This sets `\cal@entry@text`. It is executed for every event or appointment in the database that applies to a given item. We differentiate between whole-day events, pinpointed events and ranged events.

```
{\ifnum\dates@time@start>0
   \ifnum\dates@time@start=\dates@time@end
     \protected@edef\cal@entry@text{%
       \thetimestart\space
       \cal@textcolor{\calcolor}{\theshorttext}}
   \else
     \protected@edef\cal@entry@text{%
       \thetimestart--\thetimeend\space
       \cal@textcolor{\calcolor}{\theshorttext}}
   \fi
 \else
   \protected@edef\cal@entry@text{%
     \cal@textcolor{\calcolor}{\theshorttext}}
 \fi}
```

Finally we tell the style how to create the text for each item. We stash the text in each of the numbered boxes, for extraction at the end of each group and at the end of the run. In the event of an overfull `\vbox`, we retry with two columns of text in a last-ditch attempt to squeze everything in.

```
{\global\wk@overthetopfalse
 \ifwk@ferial
   \ifcase\cal@subgroup@count
     \def\wk@itemheight@scalefactor{1}%
   \or
     \def\wk@itemheight@scalefactor{1}%
   \or
     \def\wk@itemheight@scalefactor{0.5}%
   \or
     \def\wk@itemheight@scalefactor{0.5}%
   \else
```

```
    \def\wk@itemheight@scalefactor{1}%
  \fi
\else
  \def\wk@itemheight@scalefactor{1}%
\fi
\expandafter\sbox\csname wk@box\the\cal@subgroup@count\endcsname{%
  \vbox to\wk@itemheight@scalefactor\wk@itemheight{%
    \hbox{%
      \parbox{\linewidth}{%
        \vbox to\baselineskip{%
          \hrule width\linewidth
          \vskip 1pt
          \ifwk@compact
            {\wk@titletype{\wk@daynametype\theweekday}\hfill
             {\wk@daynumbertype\theday}\space
             {\wk@monthtype\themonth}\space
             {\wk@yeartype\theyear}%
            }\par
          \else\ifwk@ferial
            \ifnum\cal@subgroup@count<4
              {\wk@titletype{\wk@daynametype\theweekday}\hfill
               {\wk@daynumbertype\theday}\space
               {\wk@monthtype\themonth}\space
               {\wk@yeartype\theyear}%
              }\par
            \else
              {\wk@titletype{\wk@daynumbertype\theday}\space
               {\wk@monthtype\themonth}\space
               {\wk@yeartype\theyear}\hfill
               {\wk@daynametype\theweekday}%
              }\par
            \fi
          \else
            \ifnum\cal@subgroup@count<3
              {\wk@titletype{\wk@daynametype\theweekday}\hfill
               {\wk@daynumbertype\theday}\space
               {\wk@monthtype\themonth}\space
               {\wk@yeartype\theyear}%
              }\par
            \else
              {\wk@titletype{\wk@daynumbertype\theday}\space
               {\wk@monthtype\themonth}\space
               {\wk@yeartype\theyear}\hfill
               {\wk@daynametype\theweekday}%
              }\par
            \fi
          \fi\fi
          \vfill
        }%          vbox
        \hrule width\linewidth
        \vskip 1pt
        \raggedright
        \small
        \ifcat$\theevents$%
        \else
          \theevents\par
        \fi
        \ifcat$\theappointments$%
        \else
          \theappointments
        \fi
      }%            parbox
    }%              hbox
    \leaders\vbox{\vskip\wk@intralineskip\wk@hrulefill}\vfill
    \vskip\wk@bottomlineskip
  }%                vbox
  \ifnum\badness=1000000
    \global\wk@overthetoptrue
  \fi
}%                  sbox
\ifwk@overthetop
  \message{Resetting this date in two-columns.}%
  \expandafter\sbox\csname wk@box\the\cal@subgroup@count\endcsname{%
    \vbox to\wk@itemheight@scalefactor\wk@itemheight{%
      \hbox{%
        \parbox{\linewidth}{%
          \vbox to\baselineskip{%
            \hrule width\linewidth
            \vskip 1pt
            \ifwk@compact
              {\wk@titletype{\wk@daynametype\theweekday}\hfill
               {\wk@daynumbertype\theday}\space
               {\wk@monthtype\themonth}\space
               {\wk@yeartype\theyear}%
              }\par
            \else
              \ifnum\cal@subgroup@count<3
                {\wk@titletype{\wk@daynametype\theweekday}\hfill
                 {\wk@daynumbertype\theday}\space
                 {\wk@monthtype\themonth}\space
                 {\wk@yeartype\theyear}%
                }\par
              \else
                {\wk@titletype{\wk@daynumbertype\theday}\space
                 {\wk@monthtype\themonth}\space
                 {\wk@yeartype\theyear}\hfill
                 {\wk@daynametype\theweekday}%
                }\par
              \fi
            \fi
            \vfill
          }%        vbox
          \hrule width\linewidth
          \vskip 1pt
          \raggedright
          \small
          \begin{multicols}{2}
            \ifcat$\theevents$%
            \else%
              \theevents\par
            \fi
            \ifcat$\theappointments$%
            \else
              \theappointments
            \fi
          \end{multicols}
        }%          parbox
      }%            hbox
      \leaders\vbox{\vskip\wk@intralineskip\wk@hrulefill}\vfill
      \vskip\wk@bottomlineskip
    }%              vbox
  }%                sbox
\fi
\advance\wk@tempcount by 1
\ifnum\wk@tempcount>6
  \wk@tempcount=0
\fi}
⟨/class⟩
```

References

[GMS94] Michel Goossens, Frank Mittelbach and Alexander Samarin. *The LaTeX Companion*. Addison-Wesley Company, 1994.

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.

Change History

v0.1

General: First public release incorporating small bug-fixes and extensions 1

v0.2

General: Switched to evautofl package by default; provided an option to keep using autofilo 4

v0.3

General: Added three new calendar options to enable printing of lines in every day's box 3

v0.4

General: Added a control on evautofl availability 4

Added a little, stupid example of use 1

Added the `compact` option 4

Added the `ferial` option 4