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Calendar Plugin

Show a monthly calendar with highlighted events

Introduction

The CalendarPlugin handles the `%CALENDAR%` variable which inserts a monthly calendar in the page. Multiple topics can be specified as the source of the events, and these can be in any web. The calendar marks dates corresponding to the events.

Note: This Plugin does not observe topic permissions.

Syntax Rules

You type	you get
`%CALENDAR%`	a monthly calendar for the current month/year, with events taken from the current topic
`%CALENDAR{<attributes>}%`	is the full syntax

Attributes recognized

Attribute	Meaning	Default
`year="yyyy"`	The year	Current year
`year="+yy"` or `"-yy"`	Relative year	Current year
`month="mm"`	The month	Current month
`month="+mm"` or `"-mm"`	relative month	Current month
`gmtoffset="+/-hh"`	Timezone expressed as number of hours offset from GMT	Server timezone
`topic="TopicName"`	Topic containing events	The topic containing the tag
`topic="Web.TopicName1, Web.TopicName2"`	Topics containing events	The topics containing the tags
`web="Webname"`	Web containing the event topic	The current web
`lang="language"`	Language: First few characters of "English", "Franï¿½ais", "Deutsch", "Espaï¿½ol", "Portuguï¿½s", "Nederlands", "Italiano", "Norsk", "Svenska", "Dansk", "suomi", "Magyar", "Polski	"English"
`daynames="Mon|Tue|..."`	Custom day names	"Monday|Tuesday|Wednesday|Thursday|Friday|Saturday|Sunday"
`header="..."`	Text at the top of the calendar; use `$m` for current month, `$y` for year	Current month and year
`weekstartsonmonday="1"` or `"0"`	Flag to start week on Monday	"0" (Sunday)
`showdatenumbers="0"`	Show day numbers 1...31 in date cells. Note that `showdatenumbers=1` means that `HTML::CalendarMonthSimple` will add the date numbers to the cells. If `showdatenumbers=0`, then the plugin adds the date numbers. The result of this is that a	"0" (except with aslist="1", see below)

	calendar will **always** show the date numbers.	
`showweekdayheaders="1"`	Show the weekday headers	"0"
`weekdayheadersbig="0"`	If enabled, show weekday headers in bold cell headings	"1"
`cellalignment="left"`	Horizontal cell alignment of day cells: "left", "center", "right", "justify", "char"	"center"
`vcellalignment="middle"`	Vertical cell alignment of day cells: "top", "middle", "bottom", "baseline"	"top"
`cellheight="n"`	Height in pixels of each cell in the calendar	Minimum height needed
`format="..."`	How to highlight a date	See Event Formatting below
`width="n"` or `"n%"`	Width of calendar table in pixels or percent	Minimum width needed
`sharpborders="n"`	If set to 1, this gives very crisp edges between the table cells. If set to 0 standard HTML cells are used.	"1"
`border="n"`	Border width of calendar table. (sharpborders="0" required)	"1"
`cellspacing="n"`	Spacing of calendar cells. (sharpborders="0" required)	"0"
`cellpadding="n"`	Padding of calendar cells. (sharpborders="0" required)	"3"
`nowrap="1"` or `"0"`	Prevent cell content from wrapping	"0"
`bgcolor="#nnnn"`	Default background color of all cells unless redefined by other color settings below (use an HTML color-code like "#000000" as defined in StandardColors)	white
`contentcolor="#nnnn"`	Default content color of all cells unless redefined	black
`headercolor="#nnnn"`	Background color of the Month+Year header	The web bgcolor
`headercontentcolor="#nnnn"`	Content color of the Month+Year header	contentcolor setting
`weekdayheadercolor="#nnnn"`	Background color of weekdays' headers	bgcolor setting
`weekdayheadercontentcolor="#nnnn"`	Content color of weekdays' headers	contentcolor setting
`weekendheadercolor="#nnnn"`	Background color of weekends' headers	bgcolor setting
`weekendheadercontentcolor="#nnnn"`	Content color of weekends' headers	contentcolor setting
`weekdaycolor="#nnnn"`	Background color of weekday cells	bgcolor setting
`weekdaycontentcolor="#nnnn"`	Content color of weekday cells	contentcolor setting
`weekendcolor="#nnnn"`	Background of weekend cells	light gray
`weekendcontentcolor="#nnnn"`	Content color of weekend cells	contentcolor setting
`todaycolor="#nnnn"`	Background of today's cell	The web bgcolor
`todaycontentcolor="#nnnn"`	Content color of today's cell	contentcolor setting
and other attributes of HTML::CalendarMonthSimple		
`aslist`		0

Attributes recognized 2

	Controls whether events displayed in calendar style (`aslist=0`) or list style (`aslist=1`). Note that specifying `aslist=1` forces `showdatenumbers=1`. This is done to ensure that the date number is formatted according to `datenumberformat` and that only the days that have an event are listed.	
`days`	Specifies how many days of calendar data to list. Only valid if `aslist=1`.	1
`months`	Specifies how many months of calendars to display. Only valid if `aslist=0`.	1
`datenumberformat`	Specifies formatting for the date number in each cell. The formatting codes accepted are the same as those for the **`%GMTIME%`** variable.	'$day' (if `aslist=0`) ' * $day $mon $year' (if `aslist=1`)
`todaydatenumberformat`	Specifies formatting for the date number for the current day (today) in the calendar. The formatting codes accepted are the same as those for the **`%GMTIME%`** variable.	**`datenumberformat`**
`multidayformat`	Specifies formatting of the description for multi-day events. See Multi-Day Event Formatting for details.	**`$description`**

Event Syntax

Events are defined by bullets with the following syntax:

Event type	Syntax	Example
Single:	**`* yyyy-mm-dd -`** **`description`**	2002-12-09 - Expo ISO island
	`* dd MMM yyyy -` **`description`**	09 Dec 2002 - Expo
Interval:	**`* yyyy-mm-dd -`** **`yyyy-mm-dd -`** **`description`**	2002-02-02 - 2002-02-04 - Vacation ISO land
	`* dd MMM yyyy - dd` **`MMM yyyy -`** **`description`**	02 Feb 2002 - 04 Feb 2002 - Vacation
Yearly:	**`* mm-dd -`** **`description`** **`* dd MMM -`** **`description`**	07-05 - Every 5th of June 05 Jun - Every 5th of June
	`* w DDD MMM -` **`description`**	2 Tue Mar - Every 2nd Tuesday of March
	`* L DDD MMM -` **`description`**	L Mon May - The last Monday of May

	`* A yyyy-mm-dd - description` `* A dd MMM yyyy - description`	A 1969-07-20 - First moon landing A 20 Jul 1969 - First moon landing This style will mark anniversaries of an event that occurred on the given date. The description will have " (x)" appended to it, where "x" indicates how many years since the occurence of the first date. The first date is not annotated.
Monthly:	`* w DDD - description`	1 Fri - Every 1st Friday of the month
	`* L DDD - description`	L Mon - The last Monday of each month
	`* dd - description`	14 - The 14th of every month
Weekly:	`* E DDD - description`	E Wed - Every Wednesday
	`* E DDD yyyy-mm-dd - description` `* E DDD dd MMM yyyy - description`	E 2005-01-27 - Every Wednesday Starting 27 Jan 2005
	`* E DDD yyyy-mm-dd - yyyy-mm-dd - description` `* E DDD dd MMM yyyy - dd MMM yyyy - description`	E Wed 2005-01-01 - 2005-01-27 - Every Wednesday from 1 Jan 2005 through 27 Jan 2005 (inclusive)
Periodic:	`* En yyyy-mm-dd - description` `* En dd MMM yyyy - description`	E3 2002-12-02 - Every three days starting 02 Dec 2002
	`* En yyyy-mm-dd - yyyy-mm-dd - description` `* En dd MMM yyyy - dd MMM yyyy - description`	E3 2005-04-12 - 2005-12-31 - Every three days from 12 Apr 2005 through 31 Dec 2005 (inclusive)

Exception:	Insert the following between the above syntax and the description:
	`X { yyyy-mm-dd, yyyy-mm-dd - yyyy-mm-dd }`
	`X { dd MMM yyyy, dd MMM yyyy - dd MMM yyyy }`
		1 Fri X { 2002-12-01, 2002-12-06 - 2002-12-14 } - Every first Friday except on the 01 Dec 2002 and between 06 Dec 2002 and 14 Dec 2002

Event formatting

For a table-style calendar, each day which has one or more events will have a list of the descriptions of those events. Each event description will be set in a small font. In other words, **format** is:

```
$old<br /><small>$description</small>
```

For a list-style calendar, if an event falls in the selected time period, then it is displayed (by default) as a bullet item with the date as dd Mmm yyyy In other words, **datenumberformat** is:

```
  * $day $mon $year
```

and **format** is:

```
$old - $description
```

This displays the events in a form very similar to that in which they are specified (although specific to a particular date).

Multi-Day Event Formatting

The multidayformat option allows the description of each day of a multiday event to be displayed differently. This could be used to visually or textually annotate the description to indicate continuance from or to other days.

The option consists of a comma separated list of formats for each type of day in a multiday event:

first, middle, last, middle-unseen, last-unseen

Where:

- *first* is the format used when the first day of the event is displayed
- *middle* is the format used when the day being displayed is not the first or last day
- *last* is the format used when the last day of the event is displayed
- *middle-unseen* is the format used when the day being displayed is not the first or last day of the event, but the preceding days of the event have not been displayed. For example, if an event runs from 29 Apr to 2 May and a May calendar is being displayed, then this format would be used for 1 May.
- *last-unseen* is the format used when the day being displayed is the last day of the event, but the preceding days of the event have not been displayed. For example, if an event runs from 29 Apr to 1 May and a May calendar is being displayed, then this format would be used for 1 May. Note that in the previous example (event from 29 Apr to 2 May), this format would **not** be used for a May calendar because the event was "seen" on 1 May; so, the *last* format would be used for 2 May.

Within each format, date information for the current day can be substituted using the same format codes as accepted by `%GMTIME%`. An extension to these codes allows the date of the first and/or last day of the event to also be rendered.

- `$first(`*format*`)` will render the first date of the event according to *format*, where *format* is, again, a string of codes acceptable to `%GMTIME%`.
- `$last(`*format*`)` will render the last date of the event in the way just described for `$first()`

Missing formats will be filled in as follows:

- *middle* will be set to *first*
- *last* will be set to *middle*
- *middle-unseen* will be set to *middle*
- *last-unseen* will be set to *last*

Missing formats are different from empty formats. For example,

multidayformat="$description (until $last($day $month)),,"

specifies an empty format for *middle* and *last*. The result of this is that only the first day will be shown. Note that since an unspecified *middle-unseen* is set from the (empty) *middle* format, an event that begins prior to the calendar being displayed but ending in the current calendar will not be displayed. In contrast,

multidayformat="$description" will simply display the description for each day of the event; all days (within the scope of the calendar) will be displayed.

The default format is to simply display the description of the event.

Examples

You type:	You get:	If corr
A list of Events is just a bullet list like this: • 2 Feb - Andrea's birthday • A 7 Mar 1966 - Nicoletta's birthday • 29 May 1996 - Maria Teresa is born! • 29 Sep 1998 - Davide is born! %CALENDAR{month="2" year="2002" bgcolor="cyan"}% %CALENDAR{month="3" year="2002" showweekdayheaders="1"}%		%CALEN yea bgcol %CALEN yea showweekd

February 2002

			01	02 Andrea's birthday
03	04	05	06 07 08	09
10	11	12	13 14 15	16
17	18	19	20 21 22	23
24	25	26	27 28	

March 2002

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					01	02
03	04	05	06	07 Nicoletta's birthday (36)	08	09
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

Plugin Settings

Plugin settings are stored as preferences variables. To reference a plugin setting write
%<plugin>_<setting>%, i.e. **%CALENDARPLUGIN_SHORTDESCRIPTION%**

- One line description, is shown in the TextFormattingRules topic:
    - ♦ Set SHORTDESCRIPTION = Show a monthly calendar with highlighted events

- Debug plugin: (See output in data/debug.txt)
    - ♦ Set DEBUG = 0

- How the cell content is formatted

  ```
  * #Set FORMAT = $old<br /><small>$description</small>
  ```

- *Note:* You can add settings of any of the recognized attributes (in upper case like SHOWWEEKDAYHEADERS). Examples are shown below:
    - ♦ #Set CELLALIGNMENT = center
    - ♦ #Set VCELLALIGNMENT = center
    - ♦ #Set WIDTH = 100%

- ♦ #Set GMTOFFSET = +10
- ♦ #Set SHOWWEEKDAYHEADERS = 0
- ♦ #Set WEEKSTARTSONMONDAY = 0

Plugin Installation Instructions

Note: You do not need to install anything on the browser to use this plugin. The following instructions are for the administrator who installs the plugin on the server where TWiki is running.

- For an *automated installation*, run the configure script and follow "Find More Extensions" in the in the *Extensions* section.

- Or, follow these *manual installation* steps:
  - ♦ Download the ZIP file from the Plugins web (see below)
  - ♦ The Plugin uses the **HTML::CalendarMonthSimple** and **Date::Calc** CPAN packages (see http://www.cpan.org)
  - ♦ Install **Date::Calc**
  - ♦ Install **HTML::CalendarMonthSimple**
  - ♦ To avoid an annoying log message, change line 272 of CalendarMonthSimple.pm v1.25 by adding the section marked in RED :

    ```
    if ($self->year = = $todayyear && $self->month = = $todaymonth %RED% && defined $thi
    ```

    - ◊ For earlier or later versions where the line number may be different, search for `todayyear`. It currently (v1.22-v1.25) only appears twice: once to declare and set it, once to use it. On the line that uses it, add the `&& defined $thisday` as shown above. -- TWiki:Main.AngusRogerson - 16 Aug 2004
  - ♦ Unzip **CalendarPlugin.zip** in your twiki installation directory. Content:

File:	Description:
data/TWiki/CalendarPlugin.txt	Plugin topic
lib/TWiki/Plugins/CalendarPlugin.pm	Plugin Perl module
pub/TWiki/CalendarPlugin/exclam.gif	Image file

- Visit `configure` in your TWiki installation, and enable the plugin in the {Plugins} section.
- Test if the installation was successful:
  - ♦ You should see two calendars near the Event list above and a current month calendar below:

%CALENDAR%

Plugin Info

Plugin Author:	TWiki:Main.AndreaSterbini , TWiki:Main.PeterThoeny , TWiki:Main.NathanKerr , TWiki:Main.DavidBright , TWiki:Main.DanielRohde , TWiki:Main .
Copyright:	© 2001 TWiki:Main.AndreaSterbini © 2002-2011 TWiki:Main.PeterThoeny © 2002-2011 TWiki:TWiki.TWikiContributor
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Plugin Version:	2011-07-10
Change History:	
2011-07-10:	TWikibug:Item6725 : Change global package variables from "use vars" to "our" -- TWiki:Main.PeterThoeny
2011-02-18:	

	TWikibug:Item6650 : Add cellspacing, cellpadding parameters; fix sharpborders="0" issue -- TWiki:Main.PeterThoeny
2011-02-17:	TWikibug:Item6649 : Support anniversary, yearly, weekly and periodic events with ISO date format -- TWiki:Main.PeterThoeny
2011-02-16:	TWikibug:Item6649 : Support exceptions with ISO date format -- TWiki:Main.PeterThoeny
2011-02-15:	TWikibug:Item6649 : Support calendar events with ISO date format, such as 2011-02-15 -- TWiki:Main.PeterThoeny
V1.020:	TWiki:Main.DavidBright : Bug fix from TWiki:Main.MarcLangheinrich for multiday events that were not properly displayed because the first day occurred in the current month, but before the first day included in the list.
V1.019:	TWiki:Main.DavidBright : Added support for monthly repeaters specified as "L Fri" (last Friday in all months).
V1.018:	TWiki:Main.DavidBright : Added capability to display multiple months in one call, display events in a list, and provided for more extensive formatting of date and description of events.
V1.017:	TWiki:Main.DanielRohde : Added start and end date support for periodic repeaters; Added initlang patch by TWiki:Main.JensKloecker ; Changed 'my' to 'local' so exceptions working again; Removed fetchxmap debug message; Fixed illegal date bug; Allowed month abbreviations in month attribute
V1.016:	TWiki:Main/DavidBright : Added support for anniversary events; changed "our" to "my" in module to support perl versions prior to 5.6.0
V1.015:	TWiki:Main.PatriceFournier : Added back support for preview showing unsaved events; Two loop fixes from TWiki:Main.DanielRohde
V1.014:	TWiki:Main.NathanKerr : Added start and end date support for weekly repeaters
V1.013:	TWiki:Main.MartinCleaver : Added multiple topic=web.topic parameters
V1.012:	TWiki:Main/PeterThoeny : Added missing doc of gmtoffset parameter (was deleted in V1.011)
V1.011:	TWiki:Main/PeterThoeny : Fixed deep recursion bug; preview shows now unsaved events; performance and resource improvements; documented most of HTML::CalendarMonthSimple attributes; TWiki:Main/PaulineCheung : Fixed uninitialized value in join
V1.010:	TWiki:Main/DanBoitnott : Fixed variable conflict in timezone code
V1.009:	TWiki:Main/DanBoitnott : Added ability to have event topics in other webs
V1.008:	TWiki:Main/AnthonPang : Added daynames attribute; TWiki:Main/JensKloecker : Added lang attribute; TWiki:Main/DanBoitnott : Added yearly, monthly, weekly, and periodic events and exceptions
V1.006:	TWiki:Main/DanBoitnott : Added monthly date support
V1.005:	TWiki:Main/AkimDemaille : handle date intervals (thanks!)
V1.004:	uses only HTML::CalendarMonthSimple, ISO dates, all possible settings, fixed month bug
V1.003:	introducing HTML::CalendarMonthSimple
V1.002:	TWiki:Main/ChristianSchultze : highlight today, relative month/year and debugging (thanks!)
V1.001:	delayed load of used packages
V1.000:	first release using only HTML::CalendarMonth
TWiki Dependency:	$TWiki::Plugins::VERSION 1.010
CPAN Dependencies:	CPAN:HTML::CalendarMonthSimple >= v1.23, CPAN:Date::Calc
Other Dependencies:	none
Perl Version:	5.000 and up
TWiki:Plugins/Benchmark :	

	GoodStyle 95%, FormattedSearch 97%, CalendarPlugin 88% with installed Plugin
Plugin Home:	http://TWiki.org/cgi-bin/view/Plugins/CalendarPlugin
Feedback:	http://TWiki.org/cgi-bin/view/Plugins/CalendarPluginDev
Appraisal:	http://TWiki.org/cgi-bin/view/Plugins/CalendarPluginAppraisal

Related Topics: TWikiPreferences, TWikiPlugins

This topic: TWiki > CalendarPlugin
Topic revision: r3 - 2011-10-27 - TWikiAdminUser

Ideas, requests, problems regarding TWiki? Send feedback
Note: Please contribute updates to this topic on TWiki.org at TWiki:TWiki.CalendarPlugin.