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Calendar Plugin

The CalendarPlugin handles the macro **%CALENDAR%** that 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. Events can be listed literally in the topics, or can be taken from the results of macro expansions (such as %SEARCH).

NOTE since release 2.000, the plugin now respects access controls on topics containing events. You must have VIEW permission on these topics to be able to see the events they contain.

Also since 2.000, preferences settings **in this topic** are no longer read. Please define preferences as non-plugin preference settings instead.

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 events. You must have VIEW access to these topics or the events therein will be ignored.
`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|Thursda 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	"0" (except with aslist="1", see below)

Attribute	Meaning	Default
	`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 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. ***NOTE*** make sure you use `$old` to denote the date output, otherwise you may only see one event per day.	See Event Formatting below
`width="n"` or `"n%"`	Width of calendar table in pixels or percent	Minimum width needed
`border="n"`	Border width of calendar table	"1"
`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		

Attribute	Meaning	Default
aslist	Controls whether events displayed in calendar style (aslist=0) or list style (aslist=1). Note that specifying aslist=1 forces showdatenumbers=1 and defaults to show *only* one day's events (see day and days). 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.	0
day	Specifies the first day to show. Only valid if aslist=1.	1
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
tableclass	css class given to the outer table	calendar $month $year
cellclass	css class given to each day's element	day $day $month $year
weekdaycellclass	css class given to weekdays in the showweekdayheaders	weekday
weekendcellclass	css class given to weekendin the showweekdayheaders	weekend
todaycellclass	css class given to today's element (inaddition to cellclass)	today
headerclass	css class given to the header	calendarHeader
eventbgcolor	Background color Event, when have a event in calendar	for default is undef, you have to put so color

Event Syntax

Events are defined by bullets with the following syntax:

Event type	Syntax	Example
Single:		09 Dec 2002 - Expo

Event type	Syntax	Example
	`* dd MMM yyyy - description`	
Interval:	`* dd MMM yyyy - dd MMM yyyy - description`	02 Feb 2002 - 04 Feb 2002 - Vacation
Yearly:	`* dd MMM - description`	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 dd MMM yyyy - description`	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 dd MMM yyyy - description`	E Wed 27 Jan 2005 - Every Wednesday Starting 27 Jan 2005
	`* E DDD dd MMM yyyy - dd MMM yyyy - description`	E Wed 1 Jan 2005 - 27 Jan 2005 - Every Wednesday from 1 Jan 2005 through 27 Jan 2005 (inclusive)
Periodic:	`* En dd MMM yyyy - description`	E3 02 Dec 2002 - Every three days starting 02 Dec 2002
	`* En dd MMM yyyy - dd MMM yyyy - description`	E3 12 Apr 2005 - 31 Dec 2005 - Every three days from 12 Apr 2005 through 31 Dec 2005 (inclusive)
Exception:	Insert the following between the above syntax and the description: `X { dd MMM yyyy, dd MMM yyyy - dd MMM yyyy }`	1 Fri X { 01 Dec 2002, 06 Dec 2002 - 14 Dec 2002 } - 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.

Other sources of calendars

You can also use the Foswiki:Extensions.CalDAVPlugin to recover calendars from a CalDAV server.

Examples

<table>
<tr><th>You type:</th><th>You get:</th></tr>
<tr><td>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"}%</td><td>
<table>
<tr><th colspan="7">February 2002</th></tr>
<tr><td></td><td></td><td></td><td></td><td></td><td>01</td><td>02
Andrea's birthday</td></tr>
<tr><td>03</td><td>04</td><td>05</td><td>06</td><td>07</td><td>08</td><td>09</td></tr>
<tr><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td></tr>
<tr><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td></tr>
<tr><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td></td><td></td></tr>
</table>
<table>
<tr><th colspan="7">March 2002</th></tr>
<tr><th>Sunday</th><th>Monday</th><th>Tuesday</th><th>Wednesday</th><th>Thursday</th><th>Friday</th><th>Saturday</th></tr>
<tr><td></td><td></td><td></td><td></td><td></td><td>01</td><td>02</td></tr>
<tr><td>03</td><td>04</td><td>05</td><td>06</td><td>07
Nicoletta's birthday (36)</td><td>08</td><td>09</td></tr>
<tr><td>10</td><td>11</td><td>12</td><td>13</td><td>14</td><td>15</td><td>16</td></tr>
<tr><td>17</td><td>18</td><td>19</td><td>20</td><td>21</td><td>22</td><td>23</td></tr>
<tr><td>24</td><td>25</td><td>26</td><td>27</td><td>28</td><td>29</td><td>30</td></tr>
<tr><td>31</td><td></td><td></td><td></td><td></td><td></td><td></td></tr>
</table>
<table>
<tr><th>Sunday</th><th>M</th></tr>
<tr><td>03</td><td></td></tr>
<tr><td>10</td><td></td></tr>
<tr><td>17</td><td></td></tr>
<tr><td>24</td><td></td></tr>
<tr><td>31</td><td></td></tr>
</table>
</td></tr>
</table>

Settings

Any of the recognized attributes can be overridden using preferences. These preferences all start with `CALENDARPLUGIN_` and end with the upper case name of the attribute. For example, * Set CALENDARPLUGIN_FORMAT = $old
$description * Set CALENDARPLUGIN_VCELLALIGNMENT = center * Set

CALENDARPLUGIN_GMTOFFSET = +10 * Set CALENDARPLUGIN_WEEKSTARTSONMONDAY = 0 Preferences can be set at the site, web, topic or user level. See PreferenceSettings for more information.

Installation Instructions

You do not need to install anything in the browser to use this extension. The following instructions are for the administrator who installs the extension on the server.

Open configure, and open the "Extensions" section. Use "Find More Extensions" to get a list of available extensions. Select "Install".

If you have any problems, or if the extension isn't available in `configure`, then you can still install manually from the command-line. See http://foswiki.org/Support/ManuallyInstallingExtensions for more help.

You should see two calendars near the Event list above and a current month calendar below (using css style section inline): .bottomCalendar td { background-color: transparent } .bottomCalendar td td, .bottomCalendar td th { background-color: transparent; float: left; padding:2px; margin: 2px; width: 5em; } .bottomCalendar .calendarHeader { width: auto; float:right; } .bottomCalendar .day { background:transparent url(https://wiki.iac.ethz.ch/pub/System/CalendarPlugin/day-bg.png) no-repeat scroll bottom right; text-align: left; vertical-align:top; height: 5em; overflow: hidden; } .bottomCalendar .Sat, .bottomCalendar .Sun { background:transparent url(https://wiki.iac.ethz.ch/pub/System/CalendarPlugin/day-bg.png) no-repeat scroll bottom left; } .bottomCalendar .today { background:transparent url(https://wiki.iac.ethz.ch/pub/System/CalendarPlugin/day-bg.png) no-repeat scroll top left; color:darkred; font-weight:bold; }

November 2026						
01	02	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
29	30					

Info

Author:	Foswiki:Main.AndreaSterbini (and many others)
Version:	8058 (2010-07-07)
Release:	2.000
Change History:	
2.000 (30 Jun 2010):	Foswiki:Tasks.Item1841: Foswiki:Tasks.Item8421: Foswiki:Tasks.Item1546: added support for macro expansions to provide the event lists. This allows other plugins to generate data sources e.g. by including calendars from e.g. CalDAV. Restructured for maintenance and performance. Foswiki:Tasks.Item9231: Added topic permission checking. Crawford Currie http://c-dot.co.uk
12 Aug 2009:	

	Foswiki:Main.MarcelloBontempoSalgueiro: add `eventbgcolor` attribute for background color when day have a event
09 March 2009:	Foswiki:Main.SvenDowideit: add `day` attribute for aslist rendering so users can select a start day
28 Feb 2009:	Foswiki:Main.SvenDowideit: add css classes and parameters so that we're not so ugly anymore
10 Feb 2009:	Foswiki:Main.SvenDowideit: port to Foswiki
1.020:	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.
1.019:	TWiki:Main.DavidBright: Added support for monthly repeaters specified as "L Fri" (last Friday in all months).
1.018:	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.
1.017:	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
1.016:	TWiki:Main/DavidBright: Added support for anniversary events; changed "our" to "my" in module to support perl versions prior to 5.6.0
1.015:	TWiki:Main.PatriceFournier: Added back support for preview showing unsaved events; Two loop fixes from TWiki:Main.DanielRohde
1.014:	TWiki:Main.NathanKerr: Added start and end date support for weekly repeaters
1.013:	TWiki:Main.MartinCleaver: Added multiple topic=web.topic parameters
1.012:	TWiki:Main/PeterThoeny: Added missing doc of gmtoffset parameter (was deleted in 1.011)
1.011:	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
1.010:	TWiki:Main/DanBoitnott: Fixed variable conflict in timezone code
1.009:	TWiki:Main/DanBoitnott: Added ability to have event topics in other webs
1.008:	TWiki:Main/AnthonPang: Added daynames attribute; TWiki:Main/JensKloecker: Added lang attribute; TWiki:Main/DanBoitnott: Added yearly, monthly, weekly, and periodic events and exceptions
1.006:	TWiki:Main/DanBoitnott: Added monthly date support
1.005:	TWiki:Main/AkimDemaille: handle date intervals (thanks!)
1.004:	uses only HTML::CalendarMonthSimple, ISO dates, all possible settings, fixed month bug
1.003:	introducing HTML::CalendarMonthSimple
1.002:	TWiki:Main/ChristianSchultze: highlight today, relative month/year and debugging (thanks!)
1.001:	delayed load of used packages
1.000:	first release using only HTML::CalendarMonth

Dependencies:	Name	Version	Description
	Date::Calc	>=1.000	Required. Download from CPAN:Date::Calc
	HTML::CalendarMonthSimple	>=1.23	Required. Download from CPAN:HTML::CalendarMonthSimple

License:	GPL (GNU General Public License)
Home:	http://foswiki.org/Extensions/CalendarPlugin
Support:	http://foswiki.org/Support/CalendarPlugin

Topic revision: r8 - 08 Feb 2006 - 22:22:32 - ProjectContributor

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