

Event Templates

Introduction

OCal Version 10.5 introduces templates for greater control over the display of content in an event box, and customize the day view time column and scales.

Event Templates

These new templates make it possible to display multiple icons in any order, text using multiple fonts and styles, and to have different content depending on the size of the event box.

Time Column and Scales Template

Using templates to customize the time column and day view scales allows you to place scale lines at any desired position and paint any text in the time column using horizontal or vertical text directions.

Template Syntax

The syntax of a template is in many ways very similar to simple HTML or XML in as far as that you specify tags within the '<' and '>' characters and actual content anywhere else. Some tags may have a start and end tag with content in between, i.e. <column> and </column>.

You may specify multiple tags within the same set of '<' and '>' characters.

Some tags may have parameters. Parameters are specified by the parameter name, the equal character followed by the value in double quotes, i.e. coltype="text".

The syntax of a template is very strict and errors in the syntax will result in the template not to paint correctly if at all.

Not all tags are supported in every template, although including them does not cause an error. For example, when specifying a template for custom day view scales, the only valid tags are *scaledark*, *scalelight*, *scalepos*, *scaleline* and *scalefilldark*. Each tag description will specify in which templates the tag is supported.

Decision and Data Tags

This section lists all tags related to data handling and decision making during paint.

<use>...</use>

Parameters: wmax or hmax

Templates: \$templateallday, \$templatedayview, \$templatemonthview

The use tag is used to decide if the content within the start and end use tags is to be displayed based on the current width or height of the event box.

Examples:

<use wmax=20>...</use> content is displayed if the event box is 20 pixels or less in width

<use hmax=15>...</use> content is displayed if the event box is 15 pixels or less in height

Notes:

You may not specify both wmax and hmax for the same use clause. A template may contain multiple use clauses followed by default content without a use clause. Only the first use clause that fits the criteria will be used and no further clauses are processed once one is found.

<column>*column_name***</column>**

Parameters: coltype, align

Templates: \$templateallday, \$templatedayview, \$templatemonthview

The column tag allows one to specify a column from the event list for displaying content. The coltype parameter tells OCal what type of column this is, text, time or icon. For icons one can also specify icon16, icon32 or icon48, to specify the icon size to be used. In addition Icons can also be right aligned.

Examples:

```
<column coltype="text" nowrap>EV_TEXT</nowrap /column>
```

```
<column coltype="icon48" align="right">EV_ICON_ID</column>
```

<calculation>*omnis_calculation***</calculation>**

Parameters: calctype

Templates: \$templateallday, \$templatedayview, \$templatemonthview

The calculation tag allows you to specify any valid Omnis calculation that is within the context of the OCal window. The calculation may refer to a column in the event list by specifying the instance list name and column name, omitting the line number. OCal will automatically set the correct line number prior to evaluating the calculation.

Just as with the column tag above, the calculation tag has a parameter to specify the result type of the calculation, so OCal knows how to paint the result.

Examples:

```
<calculation calctype="text" nowrap>cap(iEventsList.EV_TEXT)</nowrap /calculation>
```

```
<calculation calctype="text">jst("T: H:M", iEventsList.EV_DATE_START)</calculation>
```

Important Note: Calculations are slower than the more direct column tags and overuse of calculations may effect performance.

Paragraph and Style Tags

This section lists all the tags for handling paragraphs and text styles.

<p>...</p>

Parameters: <none>

Templates: \$templateallday, \$templatedayview, \$templatemonthview

The paragraph tag is optional. The only time you need to use it is if you want some extra spacing between two sets of content. OCal will automatically add a third of the current font size as a gap between two paragraphs.

Examples:

```
<p>...content...a...</p>
```

```
<p>...content...b...</p>
```

If you do not require this behavior use the `
` tag to force line feeds.

**`
`**

Parameters: `<none>`

Templates: `$templateallday`, `$templatedayview`, `$templatemonthview`

Insert a new line.

`...`

Parameters: `<none>`

Templates: `$templateallday`, `$templatedayview`, `$templatemonthview`, `$templatetimecolumn`

Paints text in between tags in bold.

`<i>...</i>`

Parameters: `<none>`

Templates: `$templateallday`, `$templatedayview`, `$templatemonthview`, `$templatetimecolumn`

Paints text in between tags in italic.

`<u>...</u>`

Parameters: `<none>`

Templates: `$templateallday`, `$templatedayview`, `$templatemonthview`, `$templatetimecolumn`

Paints text in between tags with underline.

`<small>...</small>`

Parameters: `<none>`

Templates: `$templateallday`, `$templatedayview`, `$templatemonthview`, `$templatetimecolumn`

Paints text in between tags 1 point smaller. You may use multiple small tags to reduce the font size by several points.

`<big>...</big>`

Parameters: `<none>`

Templates: `$templateallday`, `$templatedayview`, `$templatemonthview`, `$templatetimecolumn`

Paints text in between tags 1 point larger. You may use multiple big tags to increase the font size by several points.

`<nowrap>...</nowrap>`

Parameters: `<none>`

Templates: `$templateallday`, `$templatedayview`, `$templatemonthview`

All content in between the nowrap tag will prevent wrapping and only specific break or paragraph tags will insert line feeds.

`<color=#RRGGBB>`

Parameters: `<none>`

Templates: `$templateallday`, `$templatedayview`, `$templatemonthview`, `$templatetimecolumn`

The color tag changes the current text color. The color change applies to the remainder of the content. The color value can be specified as a 6 digit hexadecimal value in the format RRGGBB.

<fontname="Font Name">

Parameters: <none>

Templates: \$templateallday, \$templatedayview, \$templatemonthview, \$templatetimecolumn

The font name tag changes the current font face. The font change applies to the remainder of the content. The font name must be one of the font names that Omnis supports. For a complete list of font names use the Omnis font function *FontOps.\$winlistfonts()*.

<fontsize="Font Size">

Parameters: <none>

Templates: \$templateallday, \$templatedayview, \$templatemonthview, \$templatetimecolumn

The font size tag changes the current font size. Font sizes are specified in points (72nds per inch).

<align="left">

Parameters: left, center, right, up **or** down

Templates: \$templateallday, \$templatedayview, \$templatemonthview, \$templatetimecolumn

The align tag changes the current text or icon alignment. When used with \$templateallday, \$templatedayview, \$templatemonthview, the only supported option is "right" when used with icons. Changing the text alignment in event boxes is **not** supported.

When used with \$templatetimecolumn, all options are supported. The up and down alignment will draw the text vertically, centering the text at the current scale position.

Scale Tags

The following are specific tags supported when painting custom day view time column and scales.

<scalelight>

Parameters: <none>

Templates: \$templatetimecolumn, \$templatetimescale

Selects the light font or pen for painting the lighter scale text or lines.

<scaledark>

Parameters: <none>

Templates: \$templatetimecolumn, \$templatetimescale

Selects the darker font or pen for painting the darker scale text or lines.

<scalepos="minutes">

Parameters: <none>

Templates: \$templatetimecolumn, \$templatetimescale

Sets the current scale position by specifying the time of day in minutes. For example 8am would be specified as 480 (8 x 60), and 5pm would be 1020 (17 x 60).

<scaleline>

Parameters: <none>

Templates: \$templatetimecolumn, \$templatetimescale

Instructs OCal to paint a scale line at the current position using the selected pen.

<scalefilldark>

Parameters: <none>

Templates: \$templatetimecolumn, \$templatetimescale

Instructs OCal to fill the background of the time column or day view area with the non-working hour color. The fill is positioned between the last two scalepos coordinates. For example, the following

```
<scalepos="720" scalepos="900" scalefilldark>
```

will fill the area between 12pm and 3pm.

Sample Event Templates

The following are the templates used in the OCal example library. Explanations of each line is given in read between the lines of the template text but do not form a valid part of the template text it self.

Month View Template (\$templatemonthview)

The month view template specifies four “use” clauses for when the width of the event is less or equal to 60, 80, 100, or 130 pixels respectively. For the smaller use clauses less data is displayed using a smaller font size with the use of the <small> tag.

;; for month views, event content is not wrapped so we use the <nowrap> tag for all content
<nowrap>

*;; when the event width is 60 pixels or less, we display content three point sizes smaller, and we display an icon,
;; start time in green and the event text in italic.*

```
<use wmax=60>  
<small><small><small>  
<column coltype="icon">EV_ICON_ID</column>  
<column coltype="time" color="#008800">EV_DATE_START</column>  
<column coltype="text" color="#000000"><i>EV_TEXT</i></column>  
</use>
```

*;; when the event width is 80 pixels or less, we display content two point sizes smaller, and we display an icon,
;; start time in green and the event text in italic.*

```
<use wmax=80>  
<small><small>  
<column coltype="icon">EV_ICON_ID</column>  
<column coltype="time" color="#008800">EV_DATE_START</column>  
<column coltype="text" color="#000000"><i>EV_TEXT</i></column>  
</use>
```

*;; when the event width is 100 pixels or less, we display content one point size smaller, and we display an icon,
;; start time in green and the event text in italic.*

```
<use wmax=100>  
<small>  
<column coltype="icon">EV_ICON_ID</column>  
<column coltype="time" color="#008800">EV_DATE_START</column>  
<column coltype="text" color="#000000"><i>EV_TEXT</i></column>  
</use>
```

```
;; when the event width is 130 pixels or less, we display content at the default size, and we display an icon,
;; start time in green and the event text in italic.
<use wmax=130>
<column coltype="icon">EV_ICON_ID</column>
<column coltype="time" color="#008800">EV_DATE_START</column>
<column coltype="text" color="#000000"><i>EV_TEXT</i></column>
</use>
```

```
;; when the event width is wider than 130 pixels, we display content at the default size, and we display an icon,
;; start time in green, end time in red and the event text in italic.
<column coltype="icon">EV_ICON_ID</column>
<column coltype="time" color="#008800">EV_DATE_START</column><color="#000000">-
<column coltype="time" color="#880000">EV_DATE_END</column>:
<column coltype="text" color="#000000"><small><i>EV_TEXT</i></small></column>
```

All-Day View Template (\$templateallday)

The all-day view template specifies just one “use” clause for when the width of the event is less or equal to 60 pixels.

```
;; for all-day views, event content is not wrapped so we use the <nowrap> tag for all content
<nowrap>
```

```
;; when the event width is 60 pixels or less, we display content two point sizes smaller, and we display an icon,
;; and the event text in italic.
<use wmax=60>
<small><small>
<column coltype="icon">EV_ICON_ID</column>
<column coltype="text"><i>EV_TEXT</i></column>
</use>
```

```
;; when the event width is wider than 60 pixels, we display content at the default size, and we display an icon
;; and the event text in italic.
<column coltype="icon">EV_ICON_ID</column>
<column coltype="text"><i>EV_TEXT</i></column>
```

Day View Template (\$templatedayview)

The day view template specifies two “use” clauses for when the height is 25 pixels or less and the width is 90 pixels or less, respectively.

```
;; when the event height is 25 pixels or less, we display content one point size smaller, and we display a right-aligned
;; icon, the start time in green, the end time in red and the event text in Italic and Times New Roman.
<use hmax=25><small>
<column coltype="icon" align="right">EV_ICON_ID</column>
<column coltype="time" color="#008800">EV_DATE_START</column color="#000000">-
<column coltype="time" color="#880000">EV_DATE_END</column color="#000000"><br>
<column coltype="text" color="#000000" fontname="Times New Roman"><i>EV_TEXT</i></column>
</small></use>
```

```
;; when the event width is 90 pixels or less, we display content one point size smaller, and we display a right-aligned
;; icon, the start time in green, the end time in red and the event text in Italic and Times New Roman.
<use wmax=90><small>
<column coltype="icon" align="right">EV_ICON_ID</column>
<column coltype="time" color="#008800">EV_DATE_START</column color="#000000">-
<column coltype="time" color="#880000">EV_DATE_END</column color="#000000"><br>
<column coltype="text" color="#000000" fontname="Times New Roman"><i>EV_TEXT</i></column>
</small></use>
```

```
;; for all other event sizes we use the default font size and we display a 16 pixel right-aligned icon, start time in green,
```

```
;; end time in red, followed by a new paragraph with the event text in Italic and Times New Roman
<p><b>
<column coltype="icon16" align="right">EV_ICON_ID</column>
<column coltype="time" color="#008800">EV_DATE_START</column color="#000000">
to <column coltype="time" color="#880000">EV_DATE_END</column color="#000000">
</b></p>
<p>
<column coltype="text" color="#000000" fontname="Times New Roman"><i>EV_TEXT</i></column>
</p>
```

Sample Time Column and Scale Templates

The following sample templates demonstrate what can be achieved when applying templates to both the time column and day view scale. The Image at the end shows the visual result of the two templates.

Time Column Template (\$templatetimecolumn)

This sample displays a mixture of times painted horizontally and text denoting different parts of the day, painted vertically.

```
;; we pretend to be a restaurant and break up the day into portions relevant to the establishment.
;;
;; first we fill an area between 3pm and 6pm with the non-working hour fill, as this is the time when we are closed
<scalepos="900" scalepos="1080" scalefilldark>
;; next we specify the times that separate the parts of the day. We right justify the times within the time column and
;; paint them using the default light font
<align="right" scalelight>
<scalepos="480">08:00
<scalepos="660">11:00
<scalepos="900">15:00
<scalepos="1080">18:00
<scalepos="1380">23:00
;; next we paint portions of the day when the restaurant is closed in a subtle red color
;; for this we now use a larger Arial font and we change the painting direction to up
<fontname="Arial" fontsize="18" align="up">
<color="#886666">
<scalepos="990">Closed
;; the portions of the day when food is served are painted in a subtle green
<color="#668866">
<scalepos="570">Breakfast
<scalepos="780">Lunch
<scalepos="1230">Dinner
```

Scale Template (\$templatetimescale)

This template is used to specify the position of the horizontal scale lines in the day view. Typically it is synchronized in some form with the content of the time column.

```
;; first we fill an area between 3pm and 6pm with the non-working hour fill, as this is the time when we are closed
<scalepos="900" scalepos="1080" scalefilldark>
;; now we paint the darker scale lines at the time positions that separate the different parts of the day
;; (Breakfast, Lunch, etc)
<scaledark>
<scalepos="480" scaleline>
<scalepos="660" scaleline>
<scalepos="900" scaleline>
<scalepos="1080" scaleline>
<scalepos="1380" scaleline>
```

; in between the darker scales we paint lighter scales on every hour

```
<scalelight>  
<scalepos="540" scaleline>  
<scalepos="600" scaleline>  
<scalepos="720" scaleline>  
<scalepos="780" scaleline>  
<scalepos="840" scaleline>  
<scalepos="960" scaleline>  
<scalepos="1020" scaleline>  
<scalepos="1140" scaleline>  
<scalepos="1200" scaleline>  
<scalepos="1260" scaleline>  
<scalepos="1320" scaleline>
```

June 2009							
	Sunday 14	Monday 15	Tuesday 16	Wednesday 17	Thursday 18	Friday 19	Saturday 20
08:00							
Breakfast							
11:00							
Lunch							
15:00							
Closed							
18:00							
Dinner							
23:00							