

Template Guide

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1. Overview

This document is a Template Guide to the Apache Roller Weblogger, the Java-based and open source weblog server that is produced by the Apache Roller project of the Apache Software Foundation.

1.1. Copyright and trademark information

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1.2. Feedback

Please direct any comments or suggestions about this document to: dev@roller.apache.org

2. Introduction

If you know a little about HTML and CSS, then you'll find that it's easy to customize the appearance, layout and content of your Roller-based weblog. You can change the appearance of any of your weblog's pages and add as many new pages as you want. Any Roller user can do it through Roller's web-based interface and it's all done with Roller's simple and easy-to-use template language. In this guide, we'll tell you how. We'll start by explaining how Roller's weblog template system works then we'll provide a reference to the objects and macros that you can use in your templates.

 If you have only AUTHOR or LIMITED permissions within a weblog then you won't have access to the Design → Theme or Design → Templates pages and you won't be able to change or customize your theme. You need to have ADMIN permission within a weblog to be able to do the things described in this guide.

 It is possible for a Roller site administrator to disable theme customization. So if you do have ADMIN permission in your weblog and you still don't see the Design → Templates page, perhaps your Roller site does not allow customization.

3. The Roller template system

Each Roller weblog is defined by a set of page templates, which you can edit to customize the content, layout and appearance of your weblog.

3.1. Page templates

When you create a new Roller weblog you must pick a theme to define the new weblog's appearance and layout. A theme is just a small set of templates, where each template contains HTML code, template language expressions and macros. What's a template? A template for an HTML web page is simply an HTML web page with some Velocity code embedded inside. For example, this is a valid Roller template, with one Velocity expression:

```
<html>
  <body>
    My blog is named $model.weblog.name
  </body>
</html>
```

The string "\$model.weblog.name" is a template language expression and when Roller displays the template, that expression will be replaced with the name of the weblog.

Note that **\$model** is something special. Roller makes a set of objects, known as *models*, available to page templates. In the example above, we see only the \$model object, but here are others. You'll learn more about models in Section 5 and Section 6 provides a complete reference.

3.2. The Velocity template language

The simple template language that we use inside Roller page templates is called Velocity. It's designed to be simple and easy for even non-programmers, but it's also a simple programming language. You can set variables, use if-else conditional logic and create loops.

For example, this Roller page template will list the categories available in your weblog except for the one named Music:

```
<html>
  <body>
    My blog is named $model.weblog.name. These are my categories:<br>
    #foreach ($cat in $model.weblog.categories)
      #if ($cat.name != "Music")
        $cat.name<br>
      #end
    #end
  </body>
</html>
```

Velocity also supports the concepts of *macros*. A macro is essentially a Velocity method call. We use them in Roller to generate HTML. For example, as illustrated below, to display a bookmark folder you first retrieve it from the weblog and second pass it to the `#showBookmarkLinksList()` macro to display it as an HTML `` list.

```
<html>
  <body>
    <h2>Blogroll</h2>
    #set($rootFolder = $model.weblog.getBookmarkFolder("/"))
    #showBookmarkLinksList($rootFolder)
  </body>
</html>
```

You'll learn more about macros in Section 5 and Section 8 provides a complete reference to the standard Roller macros. If you want more information on Velocity, see <http://wiki.apache.org/velocity/>.

Now that we've covered the basic concepts of page templates and the Velocity template language, let's dig into the details of editing templates.

4. Editing and creating page templates

After you've used **Roller Design → Themes** page to customize your weblog theme, you can edit and create page templates through the **Design → Templates** page. We'll show you how to do that, but first you need to understand how the required pages, found in every theme, work together to display a weblog.

Every theme is different, but all themes must have two required pages – pages that you cannot rename or delete. These are the **Weblog** template, which defines the main page of your blog, and the **_day** template, which defines how each day's worth of blog entries is displayed on your main page. Some themes also have a required page named **_css** which defines the CSS style code used by the weblog.

First, let's look at a simple Weblog template.

4.1. The Weblog template

Below is a simple Weblog page that displays all of the data that weblog typically contains including recent entries with paging to past entries, category link, feed links, a calendar and feed auto-discovery. Check the annotations for more detail.

Listing 1: a typical Weblog template

```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<html>
  <head>
    <title>$model.weblog.name : $model.weblogPage.name</title> #1
```

```

#showAutodiscoveryLinks($model.weblog) #2
<style type="text/css">#includeTemplate($model.weblog "_css")</style> #3
</head>
<body>
  <table border="0" align="center" width="95%">
    <tr>
      <td class="entries" width="80%" valign="top">
        <h1>$model.weblog.name</h1> #4
        <p class="descrip">$model.weblog.description</p>
        #set($rootCategory = $model.weblog.getWeblogCategory("nil")) #5
        #showWeblogCategoryLinksList($rootCategory false false)<br>
        #set($pager = $model.getWeblogEntriesPager()) #6
        <div class="next-previous">
          #if ($model.results) #7
            #showWeblogSearchAgainForm($model.weblog)
            #showNextPrevSearchControl($pager)
          #else
            #showNextPrevEntriesControl($pager) #8
          #end
        </div>
        #showWeblogEntriesPager($pager) #9
        #if ($model.permalink) #10
          #showWeblogEntryComments($entry)
          #showWeblogEntryCommentForm($entry)
        #end
      </td>
      <td width="20%" valign="top">
        <h2>Calendar</h2>
        #showWeblogEntryCalendar($model.weblog "nil") #11
        <h2>Feeds</h2>
        #showAtomFeedsList($model.weblog) #12
        <h2>Search</h2>
        #showWeblogSearchForm($model.weblog false) #13
        <h2>Links</h2>
        #set($defaultFolder = $model.weblog.getBookmarkFolder("/")) #14
        #showBookmarkLinksList($defaultFolder)
        <h2>Navigation</h2>
        #showPageMenu($model.weblog) #15
        #showAuthorMenu(true) #16
        <h2>Referrers</h2>
        #set($refs = $model.weblog.getTodaysReferrers()) #17
        #showReferrersList($refs 30 20)
      </td>
    </tr>
  </table>
</body>
</html>

```

The above template includes a good mix of Velocity expressions and statements. There's a lot going on, so let's explain it in detail. Here's the point-by-point breakdown.

1. **HTML title** For the HTML title we use the weblog's name, a colon and the name of the page template that is currently being displayed.
2. **Auto-discovery links** The `#showAutodiscoveryLinks()` macro adds the HTML `<link>` elements required for RSS and Atom feed auto-discovery as well as RSD for weblog clients.
3. **Include CSS styles** Here we use the include the theme's **css template directly in the page, right inside a pair of `<style>` tags**.
4. **Display a page title** Here we use the weblog's name again in an `<h1>` title.
5. **Category links list** Display a list of weblog category links.
6. **Get entries pager** Get the entries pager object so we can display entries and a paging control.
7. **Show search results control?** Show search results pager control if search in progress
8. **Else ...** Show normal entries pager control.
9. **Show entries** Show current page's worth of entries (or search results). Calls on `_day` template to do the display of each day's worth of entries.
10. **Show comments?** If we're on a permalink page, then show comments and comments form
11. **Show the calendar** Show the standard weblog calendar.
12. **Show feed links** Show links to all available Atom entry feeds, one per category.
13. **Search form** Show the weblog search form, false indicates no category chooser.
14. **Display blogroll** Display contents of the default (main) bookmark folder.
15. **Show page menu** Display navigation bar of pages available in weblog.
16. **Show author menu** Display author's menu, only visible to authorized users.
17. **Display today's referrers** Display today's referrer URL with hit counts.

Note in point #9 that the display of the weblog entries is controlled by another template, the `_day` template. So next let's take a look at that `_day` template.

4.2. The `_day` template

A theme's `_day` template is responsible for displaying one day's worth of weblog entries. Here's a typical `_day` template, one that corresponds to the above Weblog template.

Listing 2: a typical `_day` template

```

<div class="dayBox">
  <div class="dayTitle">
    $utils.formatDate($day, "EEEE MMM dd, yyyy") #1
  </div>
  #foreach($entry in $entries) #2
    <div class="entryBox">
      <p class="entryTitle">$entry.title</p> #3
      <p class="entryContent">
        #if($model.permalink) #4
          $entry.displayContent
        #else
          $entry.displayContent($url.entry($entry.anchor))
        #end
      </p>
      <p class="entryInfo">
        Posted at
        <a href="$url.entry($entry.anchor)"> #5
          $utils.formatDate($entry.pubTime, "hh:mma MMM dd, yyyy")</a>
        by $entry.creator.fullName in #6
        <span class="category">$entry.category.name</span> &nbsp;|&nbsp; #7
        #if
          ($utils.isUserAuthorizedToAuthor($entry.website)) #8
          <a href="$url.editEntry($entry.anchor)">Edit</a> &nbsp;|&nbsp;
        #end
        #if($entry.commentsStillAllowed || $entry.commentCount > 0) #9
          #set($link = "$url.comments($entry.anchor)" )
          <a href="$link" class="commentsLink">
            Comments[$entry.commentCount]</a>
          #end
        </p>
      </div>
    #end
  </div>

```

And here's a point-by-point description of the template language expressions and statements found in the above day template:

1. **Display day header.** For the day header, we display the current date in a long format.
2. **Loop through day's entries.** Here we use a \$foreach loop to iterate through the \$entries collection
3. **Display entry title.** Display the entry title in a <div> so that it can be easily styled.
4. **Display entry content or summary.** If we're on a permalink page, show the entry's content. Otherwise, show the summary if a summary is available.
5. **Display entry permalink.** Display permanent link to the entry.
6. **Display entry author's name.** Display the name of the author of the entry.
7. **Display entry category.** Display the name of the category associated with the entry.

8. **Show edit link.** If user is authorized, display link to edit the entry.
9. **Show comments link.** If comments are available or are still allowed, display link to entry comments.

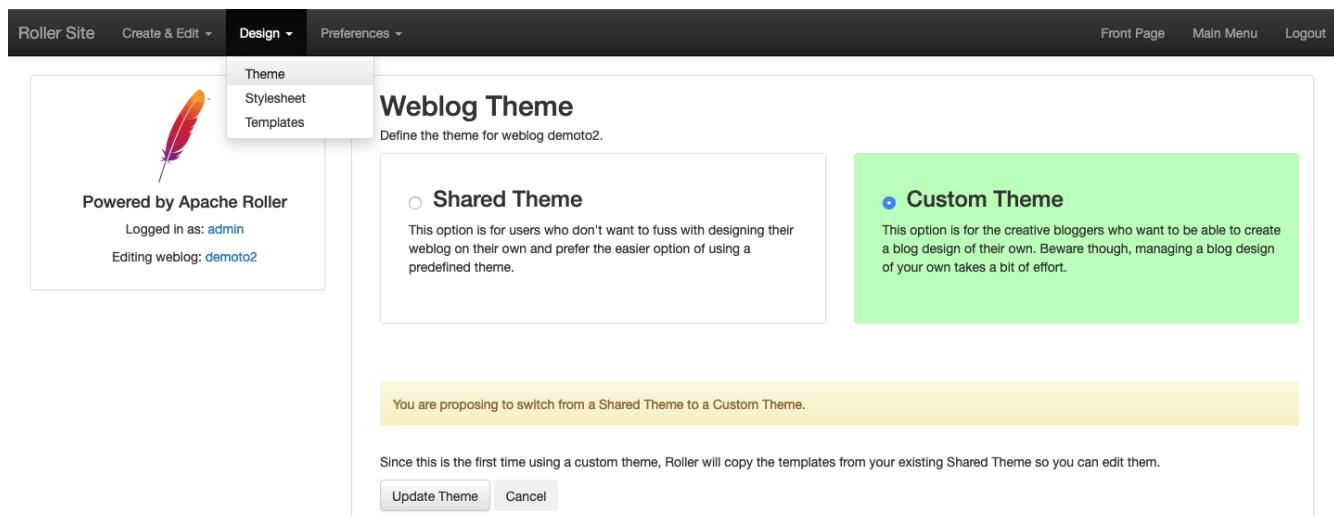
Now you've seen the required templates and you've seen most of the commonly used macros in action, let's discuss the mechanics of customizing your theme.

4.3. Customizing your theme

When you start a Roller weblog and you pick a theme, your weblog uses a *shared* copy of that theme. The page templates that define your theme are shared by all of the other users who have also picked that theme. Using a shared theme is nice because, when your Roller site administrator makes fixes and improvements to that shared theme, then you'll get those automatically. But you can't customize a shared theme. Before you can customize your theme, you've got to get your own copy of the theme's page templates like so:

1) Go to the Design → Theme page.

Login to Roller and go to your weblog's **Design → Theme** page and select the 'Custom Theme' option.



2) Click on 'Update Theme' button

If the you are using 'Custom Theme' option, you will see the following note:

Since this is the first time using a custom theme, Roller will copy the templates from your existing Shared Theme so you can edit them.

Click on 'Update Theme' button to proceed. When you do this, copies of the themes page templates will be copied into your weblog so you can edit them.



Powered by Apache Roller
Logged in as: [admin](#)
Editing weblog: [themetest](#)

Shared theme Basic imported into custom templates
Theme set to custom
Use the Stylesheet and Templates tabs above to edit your custom theme.

Weblog Theme

Define the theme for weblog themetest.

Shared Theme

This option is for users who don't want to fuss with designing their weblog on their own and prefer the easier option of using a predefined theme.

Custom Theme

This option is for the creative bloggers who want to be able to create a blog design of their own. Beware though, managing a blog design of your own takes a bit of effort.

This weblog is using a custom theme.

Powered by [Apache Roller Weblogger](#) Version 6.0.0-SNAPSHOT (re0bc7cf5553586780358c1c251ccd56ce43a7290)

3) **Customize your theme by editing and creating page templates.** Go to the Design → Templates page, edit your page templates and add new ones as needed – as described in the next section.

And if you get tired of your customized theme, just use the Design → Theme page to switch back to a shared theme – or pick another one to customize. Now let's discuss editing and creating templates.

4.4. Editing and creating page templates

Once you've got the page templates copied into your weblog, you can do just about anything you want to your theme. You can use the Design → Templates page, shown below, to create a new page, delete a page or choose a page to edit.



Powered by Apache Roller
Logged in as: [admin](#)
Editing weblog: [themetest](#)

Add a new template

Name	<input type="text"/>
Action	<input type="button" value="Custom"/>
<input type="button" value="Add"/>	

Templates

Manage templates that define weblog [themetest](#)

You can edit the templates that define the layout, colors and fonts of your weblog. You can also create new templates to define entirely new pages. This is for advanced users only, if you're not comfortable with HTML, you might want to leave your templates alone. Please [backup](#) your templates!

Reminder: You are currently using the basic shared theme, so some template edits may not effect how your blog looks.

Name	Action	Description	Remove
Weblog	Weblog	weblog	
_day	Custom	_day	
permalink	Permalink	permalink	
searchresults	Search	searchresults	
sidebar	Custom	sidebar	
simple	Custom		

Powered by [Apache Roller Weblogger](#) Version 6.0.0-SNAPSHOT (re0bc7cf5553586780358c1c251ccd56ce43a7290)

Now might be a good time to describe the *page template properties* since you can see them in the table above. The properties are name, description. Let's explain each:

- **Name:** Each template has a name, which you can display in your templates. You can also use the `#includeTemplate()` macro to include the contents of one page in another, by referring to the template by name.
- **Description:** You can enter an option description for each page for display or just as a reminder to yourself as to the purpose of the page.

For new templates that you add, you'll be able to edit all of those properties using the **Design → Template** page (shown below).

The screenshot shows the Roller Site 'Templates' editing interface. The top navigation bar includes links for Roller Site, Create & Edit, Design, Preferences, Front Page, Main Menu, and Logout. On the left, there's a sidebar with a feather icon, 'Powered by Apache Roller', 'Logged in as: admin', and 'Editing weblog: themetest'. The main content area is titled 'Templates' and shows details for a template named 'simple' in the weblog 'themetest'. It includes fields for 'Name' (simple), 'Edit Template' (set to 'CUSTOM'), 'Link (path)' (simple), 'Description' (simple), and a 'Standard' tab selected. Below these is a code editor containing the following HTML template code:

```
<!DOCTYPE html PUBLIC "-//W3C//DTD HTML 4.01 Transitional//EN">
<html>
  <head>
    <title>$model.weblog.name : $model.weblogPage.name</title>
    #showAutodiscoveryLinks($model.weblog)
    <style type="text/css">#includeTemplate($model.weblog _css)</style>
  </head>
  <body>
```

At the bottom of the template editor are 'Save' and 'Done' buttons. A 'Advanced Settings' dropdown is open, showing 'Template Language' set to 'Velocity', and three checked checkboxes: 'Hidden' (with a note), 'Include in page menu' (with a note), and 'Automatically set content type'.

But the rules for *required pages* are different. The weblog pages named Weblog, _day and _css are considered to be required pages. You can change the template code for those pages but you cannot edit the name, link or any other properties.

Now that you know how to edit and create page templates, let's discuss how to use the models, objects and macros that Roller makes available to template authors.

5. Using models, objects and macros

Roller makes weblog data available to page templates in the form of *models* and *data objects* and makes it easy for you to generate the HTML for your weblog by providing *macros*. Let's explain these new terms.

- **Model objects:** Model objects provide access to data from Roller and specifically from your Roller weblog. A model object returns data objects or collections or data objects. In Section 7, we'll describe each model, its properties and methods.
- **Data objects:** Data objects each represent an item of data within your Roller weblog, for example there is a *Weblog* object that represents your weblog, *WeblogEntry* objects which represent individual weblog entries and *Bookmark* objects that represent items in your blogroll. In Section 8, we'll describe each data object, its properties and methods.
- **Macros.** A macro is Velocity routine that generates HTML based on a data object or a collection of data objects. In Section 9 we'll describe each of Roller's build-in macros.

Let's discuss how to access data via models and data objects.

5.1. Accessing data via models and objects

Models and data objects are objects and there are two ways to access data from objects. One way is to access an objects properties. Another is to call the object's methods. Let's talk about these two techniques.

5.1.1. Accessing object properties

To access an objects properties, you use a simple dot-notation. For example, if you want to display the Roller version number property of the `$config` model object, you do something like this in your page:

```
<p>$config.rollerVersion</p>
```

Or, if you'd like to save the Roller version number in a variable named `$version`, you'd do this:

```
#set( $version = $config.rollerVersion )
```

And some properties are themselves objects, which in turn have their own properties and methods. For example, you can get the Weblog object from the `$model` object and from the `weblog` object you can display the weblog's name and description like so:

```
<p>$model.weblog.name</a>
```

```
<p>$model.weblog.description</a>
```

5.1.2. Calling object methods

Another way to access an object's data is to call an objects's methods. Methods are different from properties because they require parameters. You use the same simple dot-notation, but you must

end the expression with a list of parameters in parentheses. For example, if you'd like to display an image from within your theme, you can use the \$url model like so:

```
<img='$url.themeResource("basic", "background.gif")'></a>
```

Argument one is the name of the theme and argument two is the name of a file that exists in the theme's directory. Note that a comma is used to separate the arguments.

5.2. Calling macros

In page templates, you get data from objects and you use template code to display that data as HTML. To help you along, Roller includes some macros which can be used to generate commonly used HTML constructs on your weblog. There are macros for displaying your weblog entries, displaying your blogroll and displaying a comment form.

Calling a macro is a little different from calling a method. A macro call starts with a # pound-sign, followed by the macro name and the macro parameters enclosed in parentheses. For example, you call the weblog calendar macro like so:

```
#showWeblogEntryCalendar($model.weblog "nil")
```

Argument one is the weblog for the calendar and argument two is the category, where "nil" indicates that no category is specified. Note that the arguments for a macro are separated by a space and NOT a comma as was the case for methods.

5.3. A word about pagers

There are many cases in a weblog when we want to display a large collection of values and we want that collection to be page-able – that is, we want a Next link to go to the next page of results and possibly a Previous link to go to the previous page. So in Roller, we've introduced the concept of a pager. A *pager* is a special type of object that makes it easy to display a page-able collection of items within a page template. You can see a pager in action in Listing 1 above.

You probably won't need to use a pager object directly, since the macros do it for you. But if you do, here's what a pager looks like:

- \$pager.homeLink – URL of the first page of results
- \$pager.homeName – Name to be displayed for that URL
- \$pager.nextLink – URL of the next page of results
- \$pager.nextName – Name to be displayed for that URL
- \$pager.prevLink – URL of the previous page of results
- \$pager.prevName – Name to be displayed for that URL
- \$pager.items – Collection of data objects; the current page of results

There is also a WeblogEntryPager interface that provides some extra methods for next-collection paging. The collection methods exist because often, with weblog entries, we are paging through the entries that exist within one time period, a month for example. In that case, the nextLink point to

the next page of results within that month and the nextCollectionLink points to the next months entries.

- \$pager.homeLink – URL of the first page of results
- \$pager.homeName – Name to be displayed for that URL
- \$pager.nextLink – URL of the next page of results
- \$pager.nextName – Name to be displayed for that URL
- \$pager.prevLink – URL of the previous page of results
- \$pager.prevName – Name to be displayed for that URL
- \$pager.nextCollectionLink – URL of next collection in sequence
- \$pager.nextCollectionName – Name to be displayed for that URL
- \$pager.prevCollectionLink – URL of previous collection in sequence
- \$pager.prevCollectionName – Name to be displayed for that URL
- \$pager.items – Collection of data objects; the current page of results

6. Model Object Reference

This section covers the standard model objects available in all page templates:

- \$config – provides access to the Roller site configuration parameters
- \$model – provides access to data for one specific weblog
- \$url – for creating Roller URLs and URLs within one specific weblog
- \$utils – utility methods needed within page templates

For each model, we'll cover properties and methods.

6.1. \$config

The \$config model provides access to the Roller configuration data that you'll need in your weblog.

6.1.1. \$config Properties

Property Name	Type	Description
\$config.analyticsOverrideAllowed	Boolean	True if individual bloggers are allowed to override the default tracking code (if any) provided by the blog administrator.
\$config.commentAutoFormat	Boolean	True if comments should be formatted with added line feeds.

Property Name	Type	Description
\$config.commentEmailNotify	Boolean	True if notification of new comments via email is enabled.
\$config.commentEscapeHtml	Boolean	True if all HTML will be stripped of comments before display.
\$config.defaultAnalyticsTrackingCode	String	Default tracking code for web analytics software, if configured by the blog administrator (See Roller User's Guide, Roller Administration chapter.)
\$config.feedMaxSize	Integer	Maximum number of items displayed in RSS and Atom feeds.
\$config.feedStyle	Boolean	True if feeds are displayed with user-friendly formatting (via XSL stylesheet).
\$config.rollerVersion	String	Version number of Roller build.
\$config.registrationEnabled	Boolean	True if new user registration is enabled.
\$config.registrationURL	String	URL of new user registration site (if not using standard Roller registration).
\$config.siteDescription	String	Description of this Roller site.
\$config.siteEmail	String	Email address of this Roller site's administrator.
\$config.siteName	String	Name of this Roller site.
\$config.siteShortName	String	Short name of this Roller site.

6.1.2. \$config Methods

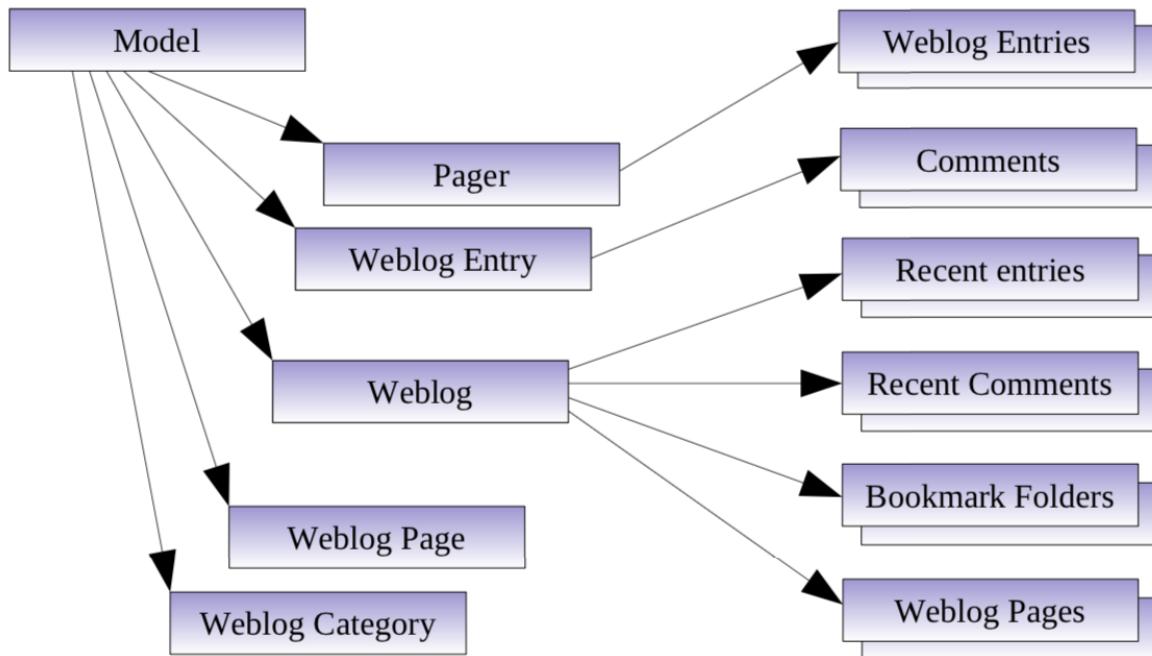
The **\$config** model also provides a set of methods for accessing properties by name. Generally, you should be able to get the configuration data you need from the properties above. You shouldn't need to call these methods, but just so you know:

- **boolean getBooleanProperty(String propertyName)** Returns the named runtime property as a boolean.
- **String getProperty(String propertyName)** Returns the named runtime property as a String.
- **int getIntProperty(String propertyName)** Returns the named runtime property as an integer.

6.2. \$model

The **\$model** object provides you with access to all of the data objects that make up your weblog. You can get a pager object to access your weblog entries, the weblog entry referenced by the request, the category object referenced by the request and the weblog itself.

The diagram below show the objects you can get from the **\$model** and the collections of objects that you can get from those. See Section 7 for a complete reference to the data objects and their properties.



Now let's the details of the **\$model** object, starting with properties.

6.2.1. \$model Properties

Name	Type	Description
\$model.commentForm	CommentForm	On a comment-page, this object will be populated with the comment form values. Values available are \$model.commentForm.name, \$model.commentForm.url and \$model.commentForm.content.
\$model.locale	String	Name of locale if one is specified in the URL.
\$model.weblog	Weblog	Current weblog being displayed.

Name	Type	Description
\$model.weblogCategory	WeblogCategory	Weblog category specified by URL or null if not specified.
\$model.weblogEntry	WeblogEntry	Weblog entry object specified by URL or null if none specified.
\$model.weblogEntriesPager	Pager	Weblog entry pager for paging over entries specified by URL.
\$model.weblogPage	PageTemplate	Weblog page object specified or implied by URL.
\$model.permalink	Boolean	True if URL specifies one specific Weblog Entry permalink.
\$model.searchResults	Boolean	True if displaying search results.
\$model.tags	List of strings	List of tags specified by request.

6.2.2. \$model Search Properties

If the URL indicates a search, then the pager returned by **\$model.weblogEntriesPager** will return entries from the search and some additional properties will be available on the **\$model** object:

Name	Type	Description
\$model.categories	List of Strings	List of category names available in search.
\$model.hits	Integer	Total number of hits found.
\$model.limit	Integer	Max. number of search results displayed per page.
\$model.offset	Integer	Offset into current page of search results.
\$model.weblogSpecificSearch	Boolean	True if search is specific to one weblog.

6.2.3. \$model methods

The **\$model** object also provides a couple of methods:

- **Pager getWeblogEntriesPager(String catPath)** Returns a pager that contains only entries from the specified category.
- **String getRequestParameter(String paramName)** Returns a specific request parameter from the URL. This is only supported on custom pages and not on the default pages of a weblog (e.g. the Weblog page).

6.3. \$url

To ensure that your URLs are formed correctly, you should use the **\$url** model to form all URLs that point to the Roller site or to your weblog. Every possible type of Roller URL is supported:

Name	Type	Description
\$url.absoluteSite	String	Absolute URL of Roller site.
\$url.category(String catPath)	String	URL for one category within weblog.
\$url.category(String catPath, int pageNum)	String	URL for one category within weblog, w/page.
\$url.commentAuthenticator	String	URL of comment authenticator.
\$url.comment(String anchor, String timeStamp)	String	URL of comment for entry specified by anchor.
\$url.comments(String anchor)	String	URL of comments for entry specified by anchor.
\$url.createEntry	String	URL for new-entry page in Roller UI.
\$url.editEntry(String anchor)	String	URL for edit-single-entry page in Roller UI.
\$url.date(String dateString)	String	URL for one specific 6 or 8 character date.
\$url.date(String dateString, int pageNum)	String	URL for one specific 6 or 8 character date, w/page.
\$url.editSettings	String	URL for edit-weblog-settings page in Roller UI.
\$url.entry(String anchor)	String	URL for entry specified by anchor.
\$url.feed.entries.atom	String	URL of entries feed (Atom).
\$url.feed.entries.rss	String	URL of entries feed (RSS).
\$url.feed.comments.atom	String	URL of comments feed (Atom).
\$url.feed.comments.rss	String	URL of comments feed (RSS).
\$url.home	String	URL of weblog.
\$url.home(String locale)	String	URL to access weblog in one specific language
\$url.home(String locale, int pageNum)	String	URL to access weblog in one specific language, with paging
\$url.login	String	URL of login page.
\$url.logout	String	URL of logout page.

Name	Type	Description
\$url.rsd	String	URL of Really Simple Discovery (RSD) service.
\$url.page(String pageLink)	String	URL of page specified by pageLink.
\$url.page(String pageLink, String dateString, String catPath, int pageNum)	String	URL of page specified by pageLink, dateString, catPath and pageNum.
\$url.search	String	URL of search
\$url.search(String query, String catPath, int pageNum)	String	URL of search for specific search string, catPath and pageNum.
\$url.site	String	Relative URL of Roller site.
\$url.resource(String filePath)	String	URL of uploaded file resource in weblog.
\$url.themeResource(String theme, String file)	String	URL of a resource within a Roller theme.
\$url.themeResource(String theme, String file, boolean abs)	String	Absolute URL of a resource within a Roller theme.
\$url.trackback(String anchor)	String	Trackback URL for entry specified by anchor.

6.4. \$utils

The **\$utils** object provides all of the string manipulation methods you'll ever need for your weblog, including methods for formatting dates, escapeing HTML, encoding URLs and even removing HTML entirely. Here's a comprehensive list of the \$utils methods:

- **User getAuthenticatedUser()** Get the current user, or null if no user is logged in.
- **String addNowFollow(String s)** Adds the nofollow attribute to any HTML links found within the string.
- **String autoformat(String s)** Converts any line-breaks in the string with*
* tags.
- **String decode(String s)** Decodes a string that has been URL encoded.
- **String encode(String s)** Applies URL encoding to a string.
- **String escapeHTML(String s)** Escapes any non-HTML characters found in the string.
- **String escapeXML(String s)** Escapes any non-XML compatible characters found in the string.
- **String formatDate(Date date, String fmt)** Formats a date object according to the format specified (see `java.text.SimpleDateFormat`)
- **String formatIso8601Date(Date date)** Formats a date object using ISO-8601 date formatting.
- **String formatRfc822Date(Data date)** Formats a date object using RFC-822 date formatting.

- **boolean isEmpty(Object o)** Returns true if the object is null or if it is an empty string.
- **boolean IsNotEmpty(Object o)** Returns true if the object is not null or is a non-empty string.
- **String removeHTML(String s)** Remove all HTML markup from a string.
- **String replace(String str, String target, String replacement)** In the string str, replace the target string with the replacement string.
- **String toBase64(String s)** Convert a string to Base64 encoding.
- **String transformToHTMLSubset(String s)** Transform any HTML in the string to a safe HTML subset.
- **String truncate(String str, int lower, int upper, String append)** Truncate a string str so that it is between lower and upper characters in length and add the append string.
- **String unescapeHTML(String s)** Unescape a string that has been HTML escaped.
- **String unescapeXML(String s)** Unescape a string that has been XML escaped.

That's it for the \$url model and for models in general. Let's move on to the data objects.

7. Data Object Reference

In this section we'll list each of the properties and methods of the Roller data objects. These are:

- **Bookmark:** A single link within a weblog's web bookmark collection, exists with a Folder
- **Bookmark Folder:** A Folder containing Bookmarks, tied to a weblog.
- **Comment:** A Comment associated with a specific Weblog Entry
- **Page Template:** An individual page template within a Weblog.
- **Referrer:** A Referrer represents an external site that links to the Weblog
- **User:** Represents a single user within the Roller site.
- **Weblog:** a Weblog containing Weblog Entries, Page Templates, Bookmark Folders, etc.
- **Weblog Entry:** an individual Weblog Entry
- **Weblog Entry Attribute:** a name value pair-associated with a Weblog Entry
- **Weblog Category:** A category within a weblog, categories in Roller are hierarchical

7.1. Bookmark

Name	Type	Description
\$bookmark.description	String	Description of the bookmark
\$bookmark.feedUrl	String	URL of the newsfeed associated with the bookmark
\$bookmark.folder	BookmarkFolder	Parent folder of the bookmark
\$bookmark.image	String	URL of image to be displayed for bookmark

Name	Type	Description
\$bookmark.name	String	Name of the bookmark
\$bookmark.url	String	URL of the bookmark
\$bookmark.priority	Integer	Numerical position of the bookmark in the list, higher number means lower in the list.

7.2. BookmarkFolder

Name	Type	Description
\$folder.bookmarks	List of Bookmarks	Bookmarks contained in folder.
\$folder.name	String	Name of folder
\$folder.website	Weblog	Weblog in which folder is contained

7.3. Comment

Name	Type	Description
\$comment.approved	Boolean	True if comment has been approved for display
\$comment.content	String	Content of the comment
\$comment.email	String	Email address of the commenter
\$comment.name	String	Name of the commenter
\$comment.notify	Boolean	True if commenter choose the 'please notify me via email' option
\$comment.pending	Boolean	True if comment is waiting for approval
\$comment.postTime	Date	Time that comment was created
\$comment.remoteHost	String	Host name or IP address of commenter
\$comment.spam	Boolean	True if comment is marked as spam
\$comment.url	String	URL of the commenter
\$comment.weblogEntry	WeblogEntry	Weblog entry with which comment is associated

7.4. PageTemplate

Name	Type	Description
\$page.contents	String	The content of the page template, typically HTML and Velocity code
\$page.description	String	Description of the page
\$page.lastModified	Date	Date that page properties or content was last modified
\$page.link	String	String used to form URL to page
\$page.name	String	Name of the page
\$page.navbar	String	True if page should be included in page navigation menu
\$page.hidden	String	True if page is NOT callable by URL

7.5. TagStat

Name	Type	Description
\$tagStat.name	String	Name of tag
\$tagStat.count	Integer	Number of usages of tag within weblog or site (depending on context)
\$tagStat.intensity	Integer	Relative intensity rating of tag (values 1 through 5)

7.6. User

Name	Type	Description
\$user.dateCreated	Date	Date that user was created
\$user.emailAddress	String	User's email address
\$user.fullName	String	User's full name
\$user.screenName	String	User's screen name
\$user.locale	String	User's locale
\$user.timeZone	String	User's timezone

Name	Type	Description
\$user.userName	String	User's username (this will always return the user's screen-name unless the property user.privateUserNames is set to false in roller-custom.properties).

7.7. Weblog

Name	Type	Description
\$weblog.about	String	"About your blog" text
\$weblog.active	Boolean	True if weblog is considered active
\$weblog.allowComments	Boolean	True if comments are allowed in weblog
\$weblog.analyticsCode	String	Web analytics tracking code for the weblog. Will be null if not configured at the blog level, see \$config.defaultAnalyticsTrackingCode for the global tracking code for blogs which do not have this value set. See Weblog Settings - Web Analytics section of Roller User's Guide.
\$weblog.commentCount	Long	Total number of comments of approved in weblog
\$weblog.creator	User	User who created this weblog
\$weblog.dateCreated	Date	Date weblog was created
\$weblog.emailAddress	String	Email address of weblog's managing editor
\$weblog.emailComments	Boolean	True if email notification of comments is enabled
\$weblog.emailFromAddress	String	Email address for from-address of notifications
\$weblog.enableBloggerApi	Boolean	True if remote blogging API is enabled
\$weblog.enabled	Boolean	True if weblog is enabled
\$weblog.entryCount	Long	Total number of entries in weblog

Name	Type	Description
\$weblog.entryDisplayCount	Integer	Default number of entries to display in pagers
\$weblog.handle	String	Simple string handle that uniquely identifies weblog
\$weblog.lastModified	Date	Timestamp of last modification to weblog
\$weblog.locale	String	Default locale used by weblog
\$weblog.moderateComments	True	True if comment moderation is enabled in weblog
\$weblog.name	String	Name of the weblog
\$weblog.pages	List of PageTemplates	Page templates of weblog
\$weblog.popularTags(int sinceDays, int length)	List of TagStat objects	Popular tags in past sinceDays number of days. Returns up to length number of objects.
\$weblog.tagline	String	Weblog tagline (short description)
\$weblog.timeZone	String	Timezone of the weblog
\$weblog.todaysHits	Integer	Number of hits counted today
\$weblog.weblogCategories	List of WeblogCategories	Weblog categories

Weblog Methods

- **WeblogEntry getWeblogEntry(String anchor)** Get an individual weblog entry by the entry's anchor, which is unique within a weblog.
- **List getRecentWeblogEntries(String cat, int max)** Get most recent WeblogEntries in the weblog up to the number max. You can specify a category name if you'd like only entries from one category (or "nil" for all categories).
- **List getRecentComments(int max)** Get most recent Comments in the weblog up to the limit max.
- **WeblogCategory getWeblogCategory(String name)** Get weblog category specified by name.
- **PageTemplate getPageByName(String name)** Get page template specified by name.
- **PageTemplate getPageByLink(String link)** Get page template specified by link.

7.8. WeblogCategory

Name	Type	Description
\$category.description	String	Description
\$category.image	String	URL of image to be displayed for category

Name	Type	Description
\$category.inUse	Boolean	True if category is in use, i.e. if WeblogEntry objects use it
\$category.name	String	Name of the category
\$category.website	Weblog	Weblog that contains category

7.9. WeblogEntry

Name	Type	Description
\$entry.allowComments	Boolean	True if this weblog entry allows comments
\$entry.anchor	String	Simple string that uniquely identifies post in weblog
\$entry.categories	List of WeblogCategories	Weblog categories associated with this entry
\$entry.category	WeblogCategory	Primary weblog category of this entry
\$entry.commentDays	Integer	Number of days that comments are allowed
\$entry.commentsStillAllowed	Boolean	True if comments are currently allowed
\$entry.contentSrc	String	URL of entry content, if out-of-line
\$entry.contentType	String	MIME content-type of entry
\$entry.creator	User	User who created the entry
\$entry.entryAttributes	List of EntryAttributes	Arbitrary name/value attributes associated with entry
\$entry.pubTime	Date	Timestamp when entry was published
\$entry.rightToLeft	Boolean	True if entry text is to be displayed right-to-left
\$entry.searchDescription	String	Descriptive text that can be added to the weblog entry's HTML header for search engine optimization (SEO).
\$entry.status	String	Status of entry (i.e. PUBLISHED)
\$entry.summary	String	Raw summary text of entry
\$entry.tags	List of WeblogEntryTags	Tags associated with entry
\$entry.tagsAsString	String	Tags listed as a string

Name	Type	Description
\$entry.text	String	Raw content text of entry
\$entry.transformedText	String	Content text of entry processed by plugins
\$entry.transformedSummary	String	Summary text of entry processed by plugins
\$entry.updateTime	Date	Timestamp of last modification to entry
\$entry.website	Weblog	Entry's weblog

WeblogEntry methods

- **public String getDisplayContent()** Returns transformed text of entry or transformed summary if there is no entry.
- **public String getDisplayContent(String readMoreLink)** If you pass in a non-null and non-empty entry permalink, then this method will return the transformed summary of the entry, or the text if there is no summary.
- **public String findEntryAttribute(String name)** Returns the value of the entry attribute specified or null if no such attribute

7.10. WeblogEntryTag

A user can assign as many tags as they wish to each weblog entry.

Name	Type	Description
\$tag.name	String	Weblog entry associated with this attribute
\$tag.user	User	User who added the tag
\$tag.weblogEntry	WeblogEntry	Weblog entry associated with tag
\$tag.weblog	Weblog	Weblog associated with tag

7.11. WeblogEntryAttribute

Weblog entry attributes are name/value pairs that can be assigned to weblog entries. Currently, they're only used to add podcasts to blog entries.

8. Macro Reference

This section lists the macros that are available for use in Roller page templates, a brief description of how each works and where appropriate an outline of the generated HTML, which highlights the CSS classes defined.

8.1. Entry macros

`#showWeblogEntriesPager($pager)`

Arguments:

\$pager: Pager object returned by a getWeblogEntriesPager() method

Synopsis:

Displays the weblog entries contained in the specified \$pager object by calling your weblog's _day template for each day's worth of entries.

Generated HTML and CSS classes used

Depends entirely on contents of your weblog's _day template.

`#showNextPrevEntriesControl($pager)`

Arguments:

\$pager: Pager object returned by a getWeblogEntriesPager() method

Synopsis:

Display the next/prev links of the specified \$pager object.

Generated HTML and CSS classes used

Assuming you the page has prev and next links, the HTML will look something like the below. As you can see, no CSS classes are defined.

```
&laquo;
<a href="...">> ...prev... </a> |
<a href="...">> ...home...</a> |
<a href="...">> ...next... </a>
&raquo;
```

`#showEntryTags($entry)`

Arguments:

\$entry: WeblogEntry object

Synopsis:

Display tags associated with one weblog entry as list of links to tag specific views of weblog.

Generated HTML and CSS classes used

No CSS classes are used, only a series of links like so:

```
<a href="..." rel="tag"> ...tag name... </a>
<a href="..." rel="tag"> ...tag name... </a>
```

8.2. Comment macros

`#showWeblogEntryComments($entry)`

Arguments:

\$entry: WeblogEntry object

Synopsis:

Display the comments associated with the specified entry, not including those entries that are not approved for posting or that are marked as spam.

Generated HTML and CSS classes used

```
<div class="comments" id="comments">
  <div class="comments-head"> <!-- Comments title --> </div>
  <div class="comment even" id="">
    <!-- even like above or odd as below -->
  <div class="comment odd" id="">
    ...comment content...
    <p class="comment-details">
      ...comment details...
      <a href="link to comment" class="entrypermalink" >#</a>
    </p>
  </div>
</div>
```

`#showWeblogEntryCommentForm($entry)`

Arguments:

\$entry: WeblogEntry object

Synopsis:

Display a comment form for adding a comment to the specified entry.

Generated HTML and CSS classes used

If comments are no longer allowed for the weblog entry in question, then only a status message is generated:

```
<span class="status"> ...comments closed message... </span>
```

Otherwise we display the comment form.

```
<div class="comments-form">
  <div class="comments-head"> ...comment form title...</div>
  <span class="error"> ...error message... </span>
  <span class="status"> ...status message... </span>
  <form method="post" name="commentForm" ...>
    <ul>
      <li>
        <label class="desc"> ...text field... </label>
        <input type="text" name="name" class="text large" .../></li>
      <li>
        <input type="checkbox" class="checkbox" .../> <label class="choice">
        ...checkbox field... </label>
      </li>
      <li>
        <label class="desc"> ... </label>
        <textarea name="content" class="textarea large" cols="" rows="">
          <!-- Comment content -->
        </textarea>
      </li>
      <li class="info">
        <span class="comments-syntax-indicator">
          <span class="disabled"> Disabled </span>
          <!-- disabled as above or enabled as below --> <span class="enabled">
        Enabled </span>
        </span>
      </li>
      <li class="info">
        <div id="commentAuthenticator"></div>
      </li>
      <li>
        <input type="button" class="button" .../> <!-- preview button -->
        <input type="submit" class="button" .../> <!-- preview button -->
      </li>
    </ul>
  </form>
```

8.3. List macros

#showWeblogEntryLinksList(\$entries)

Arguments:

\$entries: List of WeblogEntry objects to be displayed in a list links

Synopsis:

Display a simple list of entries, with a title and link for each.

Generated HTML and CSS classes used

We use a simple HTML list:

```
<ul class="rEntriesList">
<li class="recentposts"><a href="..."> ...title... </a></li>
</ul>
```

#showBookmarkLinksList(\$folderObj)

Arguments:

\$folderObj: Folder object from which bookmarks are to be shown

Synopsis:

Displays all bookmarks in a specified bookmark folder object.

Generated HTML and CSS classes used

We generate a simple nested list with different CSS classes for the `` list and `` list item elements. The bookmark CSS class is prepended with the priority number of the bookmark.

```
<ul class="rFolder">
<li class="rFolderItem">
  <a href="..." class="rBookmark10"/>...bookmark name... </a> </li>
<li class="rFolderItem">
  <a href="..." class="rBookmark5"/>...bookmark name... </a>
</li>
</ul>
```

#showWeblogCategoryLinksList()

Synopsis:

Displays the defined categories for a given weblog.

Generated HTML and CSS classes used

```
<ul class="rCategory">
<li> ...unselected category name...</li>
<li class="selected"> ...selected category name...</li>
</ul>
```

#showMobileCategoryLinksList()

Synopsis:

Displays the defined categories for a given weblog in a format better suited for mobile devices.

Generated HTML and CSS classes used

```
<ul>
  ...
  <li class="ui-btn-active">
  ...
</ul>
```

8.4. Menu macros

#showPageMenu(\$weblog)

Arguments:

\$weblog: Show page menu for this weblog

Synopsis:

Display a page navigation menu that lists all pages in the weblog.

Generated HTML and CSS classes used

The page menu is displayed as a simple HTML list with separate CSS styles for list and list-items.

```
<ul class="rNavigationBar">
  <li class="rNavItem">
    <a href="..."> ...name... </a>
  </li>
</ul>
```

#showAuthorMenu(\$vertical)

Arguments:

\$vertical: True to display vertical menu, false to display horizontal

Synopsis:

Display an authoring menu for the current weblog. If \$vertical is true, then display a menu suitable for use in a narrow sidebar.

Generated HTML and CSS classes used

For a vertical menu, we use a simple HTML list:

```
<ul class="rMenu">
  <li><a href="..."> ...menu item name... </a></li>
</ul>
```

For a horizontal menu, we simply emit a series of pipe-separated links:

```
<a href="...">> ...menu item name... </a> &nbsp;|&nbsp;  
<a href="...">> ...menu item name... </a> &nbsp;|&nbsp;  
<a href="...">> ...menu item name... </a>
```

8.5. Search macros

`#showWeblogSearchForm($weblog $withCats)`

Arguments:

\$weblog: show search form for this Weblog object **\$withCats:** set to true to display a category combo-box

Show a search form for searching the weblog and, if \$withCats is true show a category chooser.

Generated HTML and CSS classes used

```
<form id="searchForm" style="margin: 0; padding: 0" ...>  
  ...form markup...  
</form>
```

`#showWeblogSearchAgainForm($weblog)`

Arguments:

\$weblog: show search-again form for this Weblog object**

Synopsis:

Show search again form, suitable for display at the start of a page of search results.

Generated HTML and CSS classes used

```
<div id="searchAgain">  
  <form>  
    ...form markup...  
  </form>  
</div>
```

`#showNextPrevSearchControl($pager)`

Arguments:

\$pager: Pager returned by getWeblogEntriesPager() in the context of a search page

Synopsis:

Show special pager designed for paging through search results.

Generated HTML and CSS classes used

```
<h3> ...search summary... </h3>
&laquo;
<a href="...">> ...prev... </a> |
<a href="...">> ...home... </a> |
<a href="...">> ...next... </a>
&raquo;
```

8.6. Misc. macros

`#showWeblogEntryCalendar($weblog $category)`

Arguments:

\$weblog: Weblog object

\$category: Category restriction (or `nil' for no restriction)

Synopsis:

Show weblog entry calendar, optionally restricted by category name ("nil" for no category)

Generated HTML and CSS classes used

A weblog entry calendar is displayed as a table with different CSS classes for `<td>`, `<th>`, `<div>` and `links` elements within, as illustrated below.

```

<table class="hCalendarTable" ...>
  <tr>
    <td colspan="7" class="hCalendarMonthYearRow">
      <a href="..." class="hCalendarNavBar">&laquo; ...prev month...</a> | 
      <a href="..." class="hCalendarNavBar">&raquo; ...next month...</a></td>
    </tr>
    <tr>
      <th class="hCalendarDayNameRow" align="center">Sun</th>
      ...days of week...
      <th class="hCalendarDayNameRow" align="center">Sat</th>
    </tr>
    <tr>
      <td class="hCalendarDayNotInMonth">&ampnbsp</td>
      ...days of week...
      <td class="hCalendarDay">
        <div class="hCalendarDayTitle">1</div>
      </td>
      <td class="hCalendarDayLinked">
        <div class="hCalendarDayTitle">
          <a href="...">2</a>
        </div>
      </td>
    </tr>
    <tr class="hCalendarNextPrev">
      <td colspan="7" align="center">
        <a href="..." class="hCalendarNavBar">Today</a></td>
      </tr>
    </table>

```

#includeTemplate(\$weblog \$pageName)

Arguments:

\$weblog: Weblog object from which page is to be included

\$pageName: Name of page to be included

Synopsis:

Parse and include a page template into current page.

#showAutodiscoveryLinks(\$weblog)

Arguments:

\$weblog: Weblog object

Synopsis:

Show the RSS, Atom and RSD auto-discovery links suitable for use within an HTML <head> element.

Generated HTML and CSS classes used

No style-able markup is produced.

`showMetaDescription()`

Arguments: None

Synopsis:

Adds a meta description tag, suitable for use in HTML header sections. This tag is frequently used by

search engines to provide a short description for links returned. The description value will set to the

weblog's tagline (`weblog.description`) if on a multiple blog entry page or the weblog entry search description (`weblogEntry.searchDescription`) if on a single blog entry (permalink) page. If the relevant description value has not been configured no meta tag will be created.

Generated HTML and CSS classes used

No style-able markup is produced.

`showAnalyticsTrackingCode($weblog)`

Arguments: `$weblog`: Weblog object

Synopsis:

Adds either the blog-specific or blog server-level web analytics tracking code provided by such services as Google Analytics. The server-level default tracking code is used unless a blog-specific one has been configured. See the Roller User's Guide - Weblog Settings and Roller Administration sections for information on where to configure the tracking codes within Roller. This tag is normally placed within the HTML header section.

Generated HTML and CSS classes used

No style-able markup is produced.

`#showTrackbackAutodiscovery($entry)`

Arguments:

`$entry`: WeblogEntry object

Synopsis:

Show trackback autodiscovery code for a specified weblog entry, suitable for use within a day template.

Generated HTML and CSS classes used

No style-able markup is produced.

```
#showAtomFeedsList($weblog)
```

Arguments:

\$weblog: Weblog object

Synopsis:

Displays a list of links to a weblog's Atom newsfeeds. One for entries and one for entries in each category that is defined in your weblog.

Generated HTML and CSS classes used

The feed list is displayed as a simple HTML list with separate styles for list and list-items.

```
<ul class="rFeeds">
  <li><a href="..."> ...feed name...</a> </li>
</ul>
```

```
#showRSSFeedsList($weblog)
```

\$weblog: Weblog object

Synopsis:

Displays a list of links to a weblog's RSS newsfeeds. One for entries and one for entries in each category that is defined in your weblog.

Generated HTML and CSS classes used

The feed list is displayed as a simple HTML list with separate styles for list and list-items.

```
<ul class="rFeeds">
  <li><a href="..."> ...feed name... </a></li>
</ul>
```

And that's it for the Roller macros. Before we move on to additional models, let's cover something you might want to do, but that doesn't yet have a macro – creating a tag cloud.

8.7. Displaying a Tag Cloud

We don't yet include a Tag Cloud macro in Roller because it's so easy to create one yourself. Here's what you do to display a tag cloud for your weblog. First, if you have not already done so, customize your theme. Next, you've got to get the tags you want to display from your weblog object. For example, to get your most 30 most often used tags for all time you'd do this:

```
#set($mytags = $model.weblog.getPopularTags(-1, 30))
```

Or if you want to only get tags used in the last 90 days you'd do this:

```
#set($mytags = $model.weblog.getPopularTags(90, 30))
```

Once you've got your tags, you can display them with a *foreach* loop. For example, here's a loop that displays each tag as a link to your weblog that displays only entries in that tag. It also gives each tag a CSS class that indicates the intensity of the tag, which indicates on a scale of zero to five how often-used the tag is.

```
#foreach ($tag in $mytags)
    <a class="tag s${tag.intensity}" href="$url.tag($tag.name)" title="$tag.count">
        $tag.name
    </a>
#end
```

Include that *#set* statement and loop in your weblog template and you'll see a tag cloud, but it all the tags will be displayed in the same size and font. If you'd like to vary the size of the tags based on how often they are used, then you'll need to add some CSS. Edit your CSS template and add this to size often used tags larger than those less often used:

```
.s1 {font-size:60%;}
.s2 {font-size:80%;}
.s3 {font-size:100%;}
.s4 {font-size:120%;}
.s5 {font-size:140%;}
```

9. Additional models

There are some additional models that can be made available to Roller weblogs by a site administrator. These are the **\$site** for accessing site-wide data, and the **planet** model for accessing Planet Roller data. Let's start with the **\$site** model.

9.1. \$site

The **\$site** model provides access to site-wide data: aggregations of weblog entries from all weblogs, comments from all weblogs, lists of users, lists of weblogs, etc. – in short, everything you need to build an interesting community front page for Roller.

9.1.1. \$site Objects

Site object

Name	Type	Description
\$site.commentCount	Long	Total number of comments in entire site
\$site.entryCount	Long	Total number of entries in entire site

Name	Type	Description
\$site.userCount	Long	Total number of users in entire site
\$site.weblogCount	Long	Total number of weblogs in entire site

For some SiteModel methods (e.g. hot-blogs, most commented, etc.) return a special type of object use to expressing a count with a short name, a long name and an internationalized type:

StatCount object

Name	Type	Description
\$stat.subjectNameLong	WeblogEntry	Long name of subject of statistic (e.g. name of a weblog)
\$stat.subjectNameShort	String	Short name of subject of statistic (e.g. handle of a weblog)
\$stat.count	Integer	Value of the statistic (i.e. number of hits)
\$stat.typeKey	String	I18N key for type of the statistic

9.1.2. \$site Methods

- **Pager getWeblogEntriesPager(int sinceDays, int max)** Get pager that returns WeblogEntry objects. Will only return entries created in last sinceDays number of days and never more than max items.
- **Pager getWeblogEntriesPager(Weblog weblog, int sinceDays, int max)** Get pager that returns WeblogEntry objects from one specific weblog. Will only return entries created in last sinceDays number of days and never more than max items.
- **Pager getWeblogEntriesPager([anchor-27]#Pager getWeblogEntriesPager(Weblog weblog, User user, int sinceDays, int max))** Get pager that returns WeblogEntry objects from one specific weblog and user. Will only return entries created in last sinceDays number of days and never more than max items.
- **Pager getWeblogEntriesPager(Weblog weblog, User user, String category, int sinceDays, int max)** Get pager that returns WeblogEntry objects from one specific weblog and category. Will only return entries created in last sinceDays number of days and never more than max items.
- **Pager getCommentsPager(int sinceDays, int max)** Get pager that returns Comment objects. Will only return comments created in last sinceDays number of days and never more than max items.
- **Pager getUsersByLetterPager(String letter, int sinceDays, int max)** Get pager that returns User objects. Will only return users whose names start with letter, created in last sinceDays number of days and never more than max items.
- **Pager getWeblogsByLetterPager(String letter, int sinceDays, int max)** Get pager that returns

Weblog objects. Will return weblogs whose handles start with the provided (single) letter, created in last sinceDays number of days and never more than max items. If the provided letter parameter is more than one character only its first character will be used.

- **Map `getUserNameLetterMap()`** Get map of User objects keyed by first letter.
- **Map `getWeblogHandleLetterMap()`** Get map of Weblog objects keyed by first letter.
- **List `getUsersWeblogs(String userName)`** Get list of all Weblog objects associated with a specified user.
- **List `getWeblogsUsers(String handle)`** Get list of all User objects associated with a specified weblog.
- **Weblog `getWeblog(String handle)`** Get Weblog object by handle.
- **List `getNewWeblogs(int sinceDays, int max)`** Get newest Weblog objects, i.e. only those created in last sinceDays number of days.
- **List `getNewUsers(int sinceDays, int max)`** Get newest User objects, i.e. only those created in last sinceDays number of days.
- **List `getHotWeblogs(int sinceDays, int max)`** Get recent hot Weblogs in the form of StatCount objects, but only those updated in last sinceDays number of days.
- **List `getMostCommentedWeblogs(int sinceDays, int max)`** Get most commented weblogs in the form of StatCount objects, but only those updated in last sinceDays number of days.
- **List `getMostCommentedWeblogEntries(List cats, int sinceDays, int max)`** Get most commented WeblogEntries in the form of StatCount objects, but only those updated in last sinceDays number of days.

9.2. \$planet

The **\$planet** model makes Planet Roller data available to weblog pages. It allows you to display the main aggregation (i.e. the one named "external"), any custom group aggregation, a feed and ranked subscriptions.

9.2.1. Configuring the planet model

The PlanetModel is not enabled by default in Roller, so before you can use it in your weblogs you'll need to enable it. To do that, you need to define some properties in your Roller configuration and specifically, in your *roller-custom.properties* override file, which is explained in STEP 8 and Appendix B of the Roller Installation Guide.

If you want to make the Planet model available in weblog pages then add the Planet model to the list of models specified by the *rendering.pageModels* property by overriding the property in your *roller-custom.properties* file like so:

```

rendering.pageModels=\norg.apache.roller.ui.rendering.model.PageModel,\norg.apache.roller.ui.rendering.model.ConfigModel,\norg.apache.roller.ui.rendering.model.UtilitiesModel,\norg.apache.roller.ui.rendering.model.URLModel,\norg.apache.roller.ui.rendering.model.MessageModel,\norg.apache.roller.ui.rendering.model.CalendarModel,\norg.apache.roller.ui.rendering.model.MenuModel, \norg.apache.roller.ui.rendering.model.PlanetModel

```

That's just a copy of the property setting from the default Roller properties file, plus the Planet model (shown in bold). Actually, depending on where want to use the Planet Model in Roller, you'll need to add the Planet model to a couple of different properties.

To make Planet model available in all blogs, you'll want to add it to these model list properties:

- rendering.pageModels: to make it available in blog pages.
- rendering.previewModels: to make it available when entries are previewed in the blog editor

To make Planet model available in the front page blog only:

- rendering.siteModels: to make the model available in site-wide blogs

Now let's discuss the objects available from the Planet model.

9.2.2. \$planet Objects

The \$planet model returns two types of objects that we haven't seen before: the `PlanetSubscription` object, which represents a feed subscription, and `PlanetEntry`, which represents one entry from a feed.

PlanetSubscription object

Name	Type	Description
\$sub.author	String	Author, from feed header
\$sub.feedURL	String	URL of the feed
\$sub.inboundBlogs	Integer	Number of weblogs that link to this weblog (or 0 if no Technorati license available)
\$sub.inboundLinks	Integer	Number of links to this weblog (or 0 if no Technorati license available)
\$sub.lastUpdated	Date	Last update time, from feed header
\$sub.name	String	Name of the feed

Name	Type	Description
\$sub.title	String	Title of the feed
\$sub.URL	String	Same as feedURL

PlanetEntry object

Name	Type	Description
\$entry.author	String	Name of author of entry
\$entry.category	WeblogCategory	Category of entry
\$entry.creator	User	User object representing author
\$entry.guid	String	Unique ID of entry
\$entry.permalink	String	Permanent link to entry
\$entry.pubTime	Date	Time entry was published
\$entry.summary	String	Entry summary text
\$entry.text	String	Entry content text
\$entry.title	String	Entry title
\$entry.updateTime	Date	Time entry was last updated
\$entry.website	PlanetSubscription	Subscription to which entry belongs

9.2.3. \$planet Methods

- **Pager getAggregationPager(int sinceDays, int max)** Get pager that returns PlanetEntry objects from the main aggregation. Will only return entries created in last sinceDays number of days and never more than max items.
- **Pager getAggregationPager(String groupHandle, int sinceDays, int max)** Get pager that returns PlanetEntry objects from the specified group aggregation. Will only return entries created in last sinceDays number of days and never more than max items.
- **Pager getFeedPager(String feedURL, int max)** Get pager that returns PlanetEntry objects from the specified feed, up to max items.
- **List getRankedSubscriptions(int sinceDays, int max)** Get all PlanetSubscription objects ordered by Technorati ranking. Will only return subscriptions updated in last sinceDays number of days and never more than max items.
- **List getRankedSubscriptions(String groupHandle, int sinceDays, int length)** Get PlanetSubscription objects in the specified group ordered by Technorati ranking. Will only return subscriptions updated in last sinceDays number of days and never more than max items.