

# Intermediate Drupal 7 Theming



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<http://www.drupaleeasy.com>

Drupal

# Assumptions

- Copy/Paste PHP
- Configure Views
- Use Fields (CCK)
- Enough HTML and CSS to be Dangerous



# Copy/Paste PHP

```
<?php if ($page['highlight']): ?>
  <div id="highlight">
    <?php print render($page['highlight']); ?>
  </div>
<?php endif; ?>
```



#### Functions & methods

Name	Description
<a href="#">theme_admin_block</a>	Returns HTML for an administrative block for display.
<a href="#">theme_admin_block_content</a>	Returns HTML for the content of an administrative block.
<a href="#">theme_admin_page</a>	Returns HTML for an administrative page.
<a href="#">theme_aggregator_block_item</a>	Returns HTML for an individual feed item for display in the block.
<a href="#">theme_aggregator_categorize_items</a>	Returns HTML for the aggregator page list form for assigning categories.
<a href="#">theme_aggregator_feed_source</a>	Implemented using the <a href="#">aggregator-feed-source.tpl.php</a> template.
<a href="#">theme_aggregator_item</a>	Implemented using the <a href="#">aggregator-item.tpl.php</a> template.
<a href="#">theme_aggregator_page_opml</a>	Prints the OPML page for a feed.
<a href="#">theme_aggregator_page_rss</a>	Prints the RSS page for a feed.
<a href="#">theme_aggregator_summary_item</a>	Implemented using the <a href="#">aggregator-summary-item.tpl.php</a> template.

# api.drupal.org

## Default Theme Implementations

Functions and templates for the user interface to be implemented by themes.

<http://bit.ly/d7theme>



Drupal

Drupal Themer Information

Parents: phptemplate\_node\_submitted < node.tpl.php < page.tpl.php

Function called:  
**theme\_username()**

Candidate function names:  
minnelli\_username < phptemplate\_username < garland\_username < theme\_username

Duration: 0.6 ms

Function Arguments

... (Array, 1 element)
0 (Object) stdClass
nid (String, 2 characters ) 25
type (String, 5 characters ) story
language (String, 2 characters ) en

Ancestor theme calls  
Function that was called  
Functions you can use to override

Search this site:  Search

Qui Acsi Hendrerit Nat  
Available variables drill down into variables

node (story) - en variation

Devel

- Devel settings
- Empty cache
- PHPInfo()
- Devel Themer: Disable
- func theme elements sess
- Reinstall modules
- Rebuild menus
- Variable editor

Add new comment Cornish

dfgvdfg1  
Thu, 09/27/2007 - 15:43 — Anon

dfgdfg1

Add new comment

Suscipere  
Outline helps select right element  
Enable/disable popup as needed

weitzman  Themer info account

Drupal Themer Information

Parents: node.tpl.php < page.tpl.php

Function called:  
**theme\_links()**

Candidate function names:  
minnelli\_links < phptemplate\_links < garland\_links < theme\_links

Duration: 2.62 ms

Function Arguments

... (Array, 2 elements)
0 (Array, 3 elements)
taxonomy_term_32 (Array, 3 elements)
title (String, 5 characters ) croca
href (String, 16 characters ) taxonomy/term/32
attributes (Array, 2 elements)
rel (String, 3 characters ) tag
title (String, 20 characters ) description of croca
taxonomy_term_21 (Array, 3 elements)
taxonomy_term_51 (Array, 3 elements)

# drupal.org/project/devel\_themer

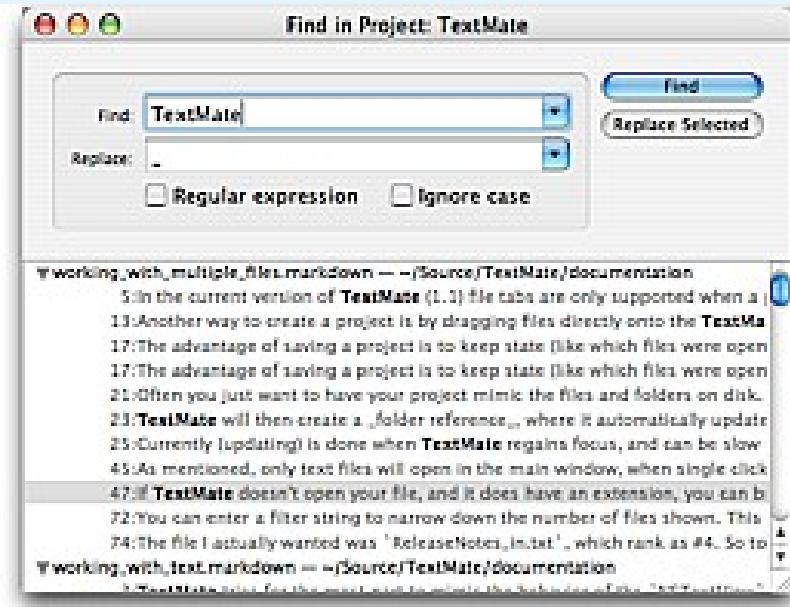
## Theme Developer Module

*“Firebug for Drupal theming.”*

Enable it when needed,  
and disable it afterwards.

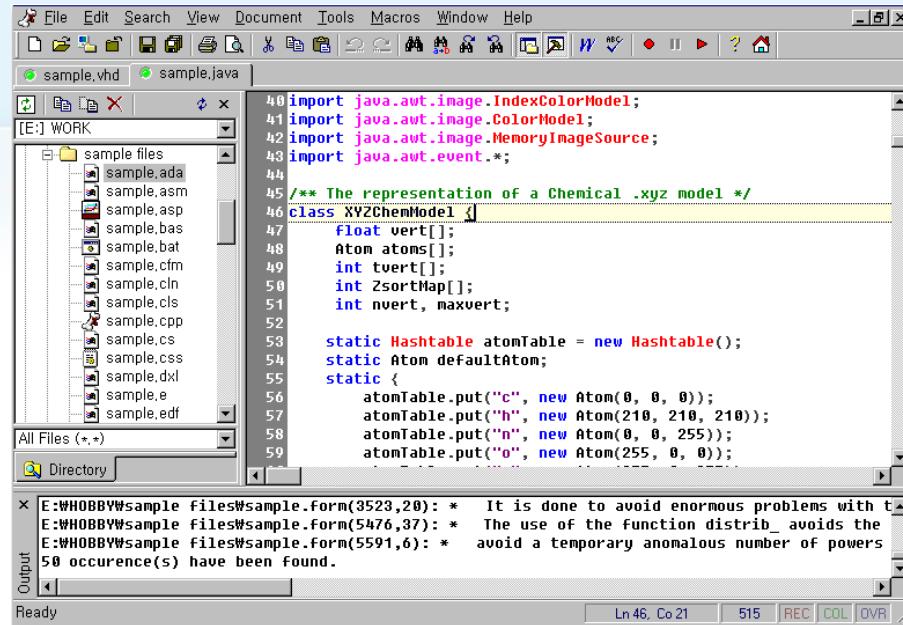


Drupal



macromates.com  
TextMate  
*“The Missing Editor for Mac OSX”*  
“Find in Project” saves my life daily  
See also: Smultron, KOD, TextWrangler, Coda





The screenshot shows the Crimson Editor interface. The main window displays a Java code editor with the following code:

```
40 import java.awt.image.IndexColorModel;
41 import java.awt.image.ColorModel;
42 import java.awt.image.MemoryImageSource;
43 import java.awt.event.*;
44
45 /** The representation of a Chemical .xyz model */
46 class XYZChemModel {
47     float vert[];
48     Atom atoms[];
49     int tvert[];
50     int ZsortMap[];
51     int nvert, maxvert;
52
53     static Hashtable atomTable = new Hashtable();
54     static Atom defaultAtom;
55     static {
56         atomTable.put("c", new Atom(0, 0, 0));
57         atomTable.put("h", new Atom(210, 210, 210));
58         atomTable.put("n", new Atom(0, 0, 255));
59         atomTable.put("o", new Atom(255, 0, 0));
    }
}

```

The left side of the interface features a file browser titled "[E] WORK" showing a folder named "sample files" containing various sample files with extensions like .ada, .asm, .asp, .bas, .bat, .cfm, .cln, .cls, .cpp, .cs, .css, .dxl, .e, and .edf.

The bottom pane is an "Output" window displaying error messages from a build process:

```
E:\HOBBY\sample files\sample.form(3523,20): * It is done to avoid enormous problems with t
E:\HOBBY\sample files\sample.form(5476,37): * The use of the function distrib_ avoids the
E:\HOBBY\sample files\sample.form(5591,6): * avoid a temporary anomalous number of powers
58 occurrence(s) have been found.
```

# crimsoneditor.com

## Crimson

*“The Professional Source Editor”*

Also: e-texteditor, UltraEdit, Notepad++, InType, ConTEXT  
Visual Web Developer Express



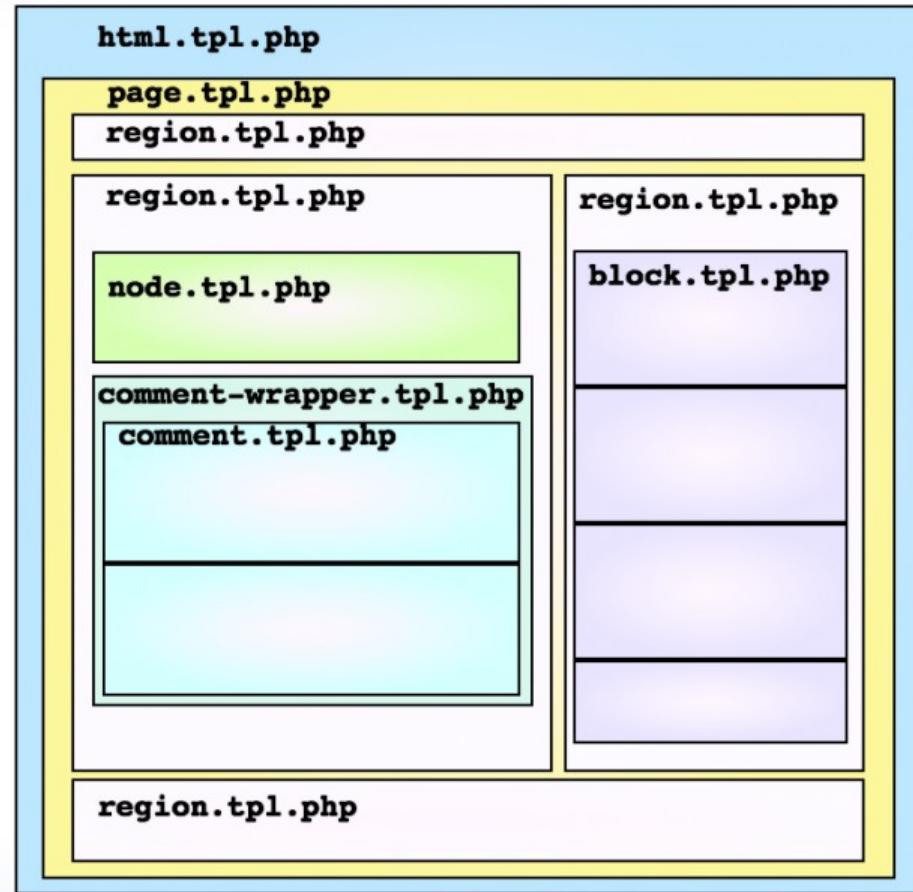
Drupal

# Drupal 7 Theming

- Template-driven (.tpl.php)
  - **HTML** – *open <HTML> and <HEAD>*
  - **Page** – *Regions, Layout, Special Variables*
    - *site\_name, logo, main\_menu, tabs*
  - **Region** – *Blocks, including Main Content*
  - **Block** – *almost everything*
  - **Node** – *on node pages, views*
  - **Field** – markup for each field
- Clear the theme registry (cache)!



# Template Nesting



# html.tpl.php

```
32 * @see template_preprocess()
33 * @see template_preprocess_html()
34 * @see template_process()
35 */
36 ?: <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML+RDFa 1.0//EN"
37     "http://www.w3.org/MarkUp/DTD/xhtml-rdfa-1.dtd">
38 <html xmlns="http://www.w3.org/1999/xhtml" xml:lang="php print
... $language-&gt;language; ?&gt;" version="XHTML+RDFa 1.0" dir="<?php print
... $language-&gt;dir; ?&gt;"
39     &lt;?php print $rdf_namespaces; ?&gt;&gt;
40 &lt;head profile="<?php print $grddl_profile; ?&gt;"&gt;
41     &lt;?php print $head; ?&gt;
42     &lt;title&gt;&lt;?php print $head_title; ?&gt;&lt;/title&gt;
43     &lt;?php print $styles; ?&gt;
44     &lt;?php print $scripts; ?&gt;
45 &lt;/head&gt;
46 &lt;body class="<?php print $classes; ?&gt;" &lt;?php print $attributes;?&gt;&gt;
47     &lt;div id="skip-link"&gt;
48         &lt;a href="#main-content"&gt;&lt;?php print t('Skip to main content'); ?&gt;&lt;/a&gt;
49     &lt;/div&gt;
50     &lt;?php print $page_top; ?&gt;
51     &lt;?php print $page; ?&gt;
52     &lt;?php print $page_bottom; ?&gt;
53 &lt;/body&gt;
54 &lt;/html&gt;</pre

OMG!!! DOCTYPE <head> stuff <body> container page.tpl.php is called here Page closing


```



# Template Naming Suggestions

- More Complicated, More Powerful
- Node
  - node--blog.tpl.php
  - node--1.tpl.php
  - node--%--edit.tpl.php
- Page
  - page--front.tpl.php
  - page--views.tpl.php
- Clear the theme registry (cache)!



# Theme Hook Suggestions

- `theme('hook__foo__bar', $vars)`
  - `'hook__foo__bar'`
  - `'hook_foo'`
  - `'hook'`
- `hook_theme()` got more powerful
  - You can now add new suggestions
  - [http://api.drupal.org/hook\\_theme](http://api.drupal.org/hook_theme)



# Theme Hook Suggestions

```
function bartik_preprocess_page(&$vars, $hook) {  
  $vars['theme_hook_suggestions'][] = 'page__blog';  
}
```



# Views 3 Theming

- Some of “Semantic Views” is now included
  - Wrap entire field, label and value
  - Classes custom on just about everything
- Template-driven
  - **Display** – entire view (header, footer, paging, ...)
  - **Style** – how rows are laid out (rows, grid, ...)
  - **Row** – how each row is laid out
  - **Field** – how each field is laid out
- Theme: Information is your friend
- Consistent template naming with Core (-- vs. -)



# CCK Theming

- (Mostly) Template-driven
- override node.tpl.php



# Template.php preprocess functions

- Create/modify a variable for a template.



# Overriding Theme Functions

- Theme developer module
- theme() function
- theme\_ > phptemplate\_ > themename\_



# More Info

- <http://pingv.com/blog/a-peek-at-drupal-7-theme-system>
- 



Drupal