Drupal Theme Development

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What I'll be talking about

- Overview of Drupal's theme system
- Making the FriendsElectric theme
- Clean, semantic XHTML/CSS with Drupal
- Examples of sexy Drupal sites



How Drupal outputs HTML

- The content is fetched and output through *themable functions* ('push' model).
- Each themable function outputs the HTML for one item on the page (node, block, comment, item list, menu, ...)
- Each themable function can be overridden by the theme.



Example themable function: block

```
function theme_block($block) {
    $output = "<div class=\"block block-$block->module\"
        id=\"block-$block->module-$block->delta\">\n";
    $output .= " <h2 class=\"title\">$block->subject</h2>\n";
    $output .= " <div class=\"content\">$block->content</div>\n";
    $output .= "</div>\n";
    return $output;
}
```

- Ranges from simple HTML + PHP placeholders to more complicated logic.
- Note: semantic HTML and useful CSS IDs and classes



Middle layer: theme engines

- Coding a theme in PHP directly is impractical
- A theme engine acts as a middle layer between Drupal and a theme consisting of loose templates.
- *XTemplate*: simple, single-template themes with only begin/end markers in HTML comments.
- *PHPTemplate*: several HTML/PHP files for templates. Best of both worlds: easy to edit, but powerful in abilities.
- Others: *PHPTal*, *Smarty*, ...



Styling with CSS

- Every theme normally has its own stylesheet
- You can create new themes by building an alternate stylesheet for an existing template/theme.
- Drupal combines the HTML of the original template with the new CSS.
- This is made available as a separate selectable theme (with its own settings, links, screenshot).



In practice

Theme	Engine (PHP)	Template (XHTML)	Style (CSS)
Pushbutton	XTemplate	xtmpl	.css
Box Grey		, tpl, php	css
Box Cleanslate	PHPTemplate		.css
Bluebeach		.tpl.php	.css
Chameleon	Ch a ma	css	
Marvin	Chame	css	



Directory structure

```
themes/engines/xtemplate/xtemplate.engine
hemes/engines/phptemplate/phptemplate.engine
   es/pushbutton/xtemplate.tmpl
   es/pushbutton/style.css
 emes/box_grey/page.tpl.php
 emes/box grey/style.css
 emes/box_grey/box_cleanslate/style.css
 emes/bluebeach/page.tpl.php
 emes/bluebeach/style.css
 emes/chameleon/chameleon.theme
 emes/chameleon/style.css
 emes/chameleon/marvin/style.css
```



Standard theme settings

 Toggle various page elements on/off

- Customize logo
- Set navigation links

Toggle display—			
☐ Site name			
☐ Site slogan			
☑ Mission statement			
☑ Primary links			
☐ Secondary links			
☐ User pictures in posts			
☐ User pictures in comments			
☑ Search box			
Enable or disable the display of certain page elements.			



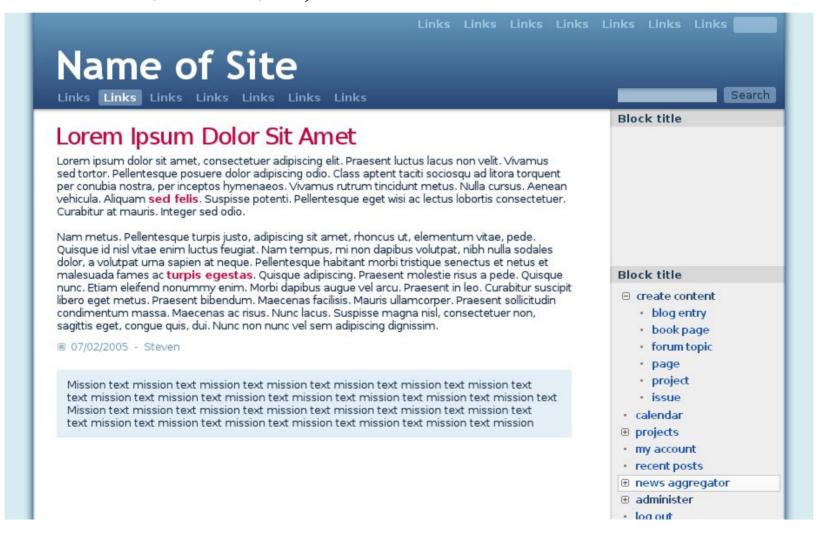
Making the FriendsElectric theme

- PHPTemplate-based
- Tableless XHTML/CSS
- Supports 1-3 columns
- Supports theme options (logo, slogan, search box, navigation links, ...)



Starting from a design/mockup

A lot of design choices still to be made (columns, footer, comments, forms, ...)





Build a skeleton page template

- Make a page.tpl.php containing a skeleton HTML document
- Focus on layout first: CSS positioning (google for a good layout template to start from)



Add more templates for specific items

• Theming a node: node.tpl.php

```
<div class="node<?php print ($sticky) ? " sticky" : ""; ?>">
  <?php if ($page == 0): ?>
    <h2><a href="<?php print $node_url ?>" title="<?php print $title ?>"><?"
  <?php endif; ?>
  <?php print $picture ?>
 <div class="info"><?php print $submitted ?><span class="terms"><?php print</pre>
  <div class="content">
   <?php print $content ?>
  </div>
 <?php if ($links): ?>
   <?php if ($picture): ?>
      <br class='clear' />
    <?php endif; ?>
    <div class="links"><?php print $links ?></div>
 <?php endif; ?>
</div>
```



FriendsElectric Layout



Recent comments

- azteaze 16 weeks 5 days ago
- 20 weeks 16 hours ago
- · This is a longer comment 21 weeks 2 hours ago
- 24 weeks 2 days ago

We are pleased to announce that the Drupal 4.5.0 release candidate is available. A list of the major changes can be found in the CHANGELOG file. We fixed most pressing issues during the code freeze, so we'd like you to help polish this release and to help iron out the remaining issues: your comments on the stability, correctness and performance of this release candidate are more than welcome!

ipsum. Sed ultricies bibendum ante. Maecenas rhoncus tincidunt eros.

Steven - Fri, 08/20/2004 - 04:44 narr narr

aaaaaaaaaaa

aaaaaaaaaaaaaa

3 comments

Steven - Tue, 02/22/2005 - 06:47



Dynamic CSS classes

- Problem: A theme can have a sidebar on either side, or both at the same time.
- Requires 4 different positioning scenarios (so empty sidebars don't take up space)
- CSS class name changes depending on \$layout: 'content-none', 'content-left', 'content-both', 'content-right'.

<div id="content" class="content-<?php print \$layout ?>">



Overriding specifics

- PHPTemplate offers a minimal set of base templates: page, node, comment, block.
- To override a themable function not in this list, you need to provide a template wrapper:

• This wrapper will run the template item list.tpl.php



Putting it all together





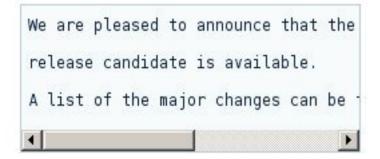
Many things to theme



Donec felis eros, blandit non



Morbi id lacus. Etiam malesuada diam ut libero. Sed bla







People who will attend the Drupal conference at FOSDEM 2005

Steven

Steven Wittens

http://www.acko.net/

Belgium

camworld

Cameron Barrett

http://www.camworld.com

United States

ec

Eric Charikane

France

jvandyk

John VanDyk

http://www.public.iastate.edu/~jvandyk/

United States

chx

Károly Négyesi

Hungary

Bèr Kessels

Bèr Kessels

http://www.webschuur.com

Belgium

dikin

Bart lansens

Type A	Date	Message	User	Operations
search	22/02/2005 - 06:46	Search: drupal (users).	Steven	results details
search	22/02/2005 - 06:46	Search: drupal (content).	Steven	results details
search	22/02/2005 - 06:45	Search: drupal (content).	Steven	results details
search	22/02/2005 - 06:45	Search: drupal (content).	Steven	results details
	22/02/2005	Coords, drugal		

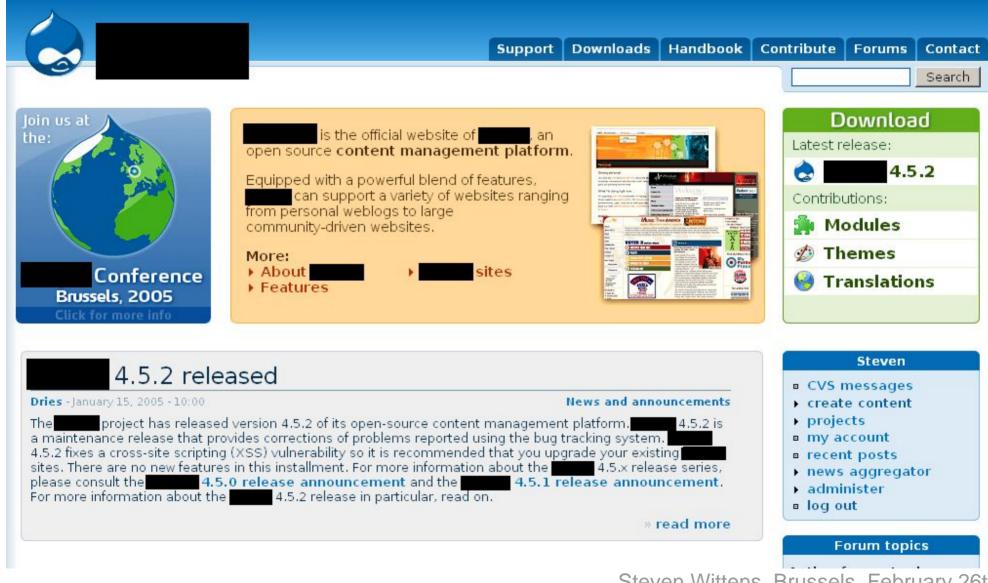


Clean XHTML/CSS

- Yes, but with some caveats:
- Most CSS work today is being made for static / blog-like sites. Drupal's content has fieldsets, tables, pre, ...
- Most theme functions output semantic XHTML: on-going work to clean up the themable functions.
- Rich styling: many CSS classes and IDs to style specific parts of the page.



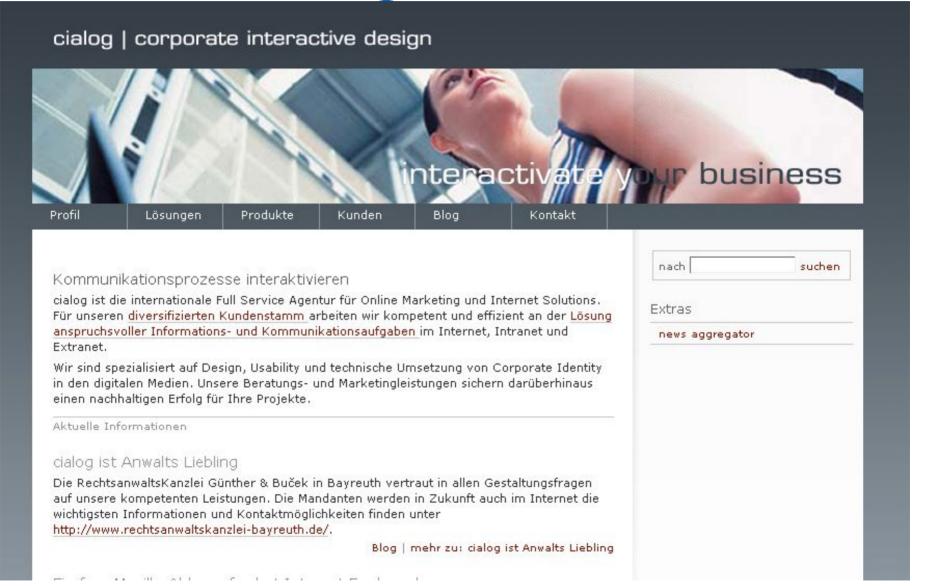
• Pop-quiz: Are the following sites Drupal-based or not?











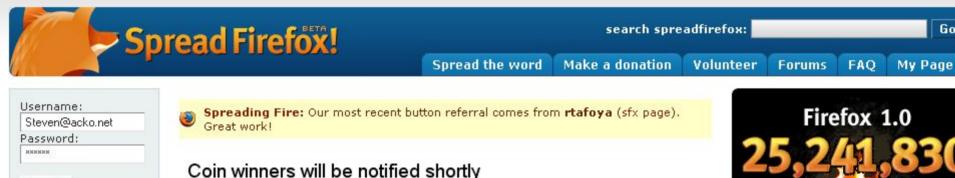












Hi all, No worries—we haven't e-mailed the 25 coin winners yet. We'll be doing



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forums

Top Posts

Who's new

kitscafe kissmeh On the recent Spread Firefox downtime

Posted by sfx team on Tue, 02/22/2005 - 11:05 :: Personal

so shortly. Thanks for your patience. —the sfx team

Posted by factoryjoe on Tue, 02/22/2005 - 01:43 :: Personal

I wanted to post briefly to let you all know that we're actively working to upgrade and improve the performance of Spread Firefox so that, moving forward, we have a robust setup to weather our continued success and growth.



sfx team's blog | 7 comments | trackback url

In particular, the Mozilla system admins and Scott Kveton from OSL have been doing a great job watching the situation and giving our server a jumpstart every time it hiccups (which has been frequent as of late).

To remedy the problem, Scott is actually working on moving Spread Firefox to a new hardware configuration that should take care of the problems for good.



Go

Tell the World What You Think

Head on over to cinet download.com and submit your feedback about Firefox. It only takes two minutes.





Conclusion

- Sexy Drupal sites are already here
- Drupal themes are flexible and powerful
- Caters to various skill sets with CSS-only or templated themes
- Accessible to designers



More?

• Theme showcase: Drupal Theme Garden (Bèr Kessels)

http://webschuur.drupaldevs.org/

 This presentation: http://www.acko.net/drupalcon

books forums

• Any questions?

news feeds

blogs

