

Studio

<http://drupal.org/project/studio>

@ultimateboy + @Zarabadoo

ping**VISION**TM

Studio Theme

- Base theme <http://drupal.org/node/225125>
- Please don't be afraid of `<?php array() ?>`
- Created out of necessity

```
<?php
```

```
function mytheme_breadcrumb($breadcrumb) {  
  if (!empty($breadcrumb)) {  
    return '<div class="breadcrumb">'. implode(' > ', $breadcrumb) .'</div>';  
  }  
}
```

```
function mytheme_comment_wrapper($content, $node) {  
  if (!$content || $node->type == 'forum') {  
    return '<div id="comments">'. $content .'</div>';  
  }  
  else {  
    return '<div id="comments"><h2 class="comments">'. t('Comments') .'</h2>'. $content .'</div>';  
  }  
}
```

```
function mytheme_node_submitted($node) {  
  return t('!datetime - !username',  
    array(  
      '!username' => theme('username', $node),  
      '!datetime' => format_date($node->created),  
    ));  
}
```

```
function mytheme_item_list($items = array(), $title = NULL, $type = 'ul', $attributes = NULL) {  
  $output = '';  
  if (isset($title)) {  
    $output .= '<h3>'. $title .'</h3>';  
  }  
  
  if (!empty($items)) {  
    $output .= "<$type". drupal_attributes($attributes) . '>';  
    foreach ($items as $item) {  
      $output .= $item; }  
  }  
}
```

- In reality, a full fledged drupal theme using the default structure, is unmaintainable.

Structure

- Canvas
- Paint
- WSAdmin

Structure

- Canvas

canvas.info

template.php

css

templates

functions

preprocess
theme.custom.inc

theme-overrides.inc

studio/canvas/preprocess

- preprocess-block.inc → block.tpl.php
- preprocess-node.inc → node.tpl.php
- preprocess-page.inc → page.tpl.php
- preprocess-comment.inc → comment.tpl.php

... ..

... ..

preprocess functions

- <http://drupal.org/node/223430>
- The main role of the preprocessor is to setup variables to be placed within the template (.tpl.php) files.

normally, this is *all* handled through a theme's template.php file

preprocess files

```
function canvas_preprocess(&$vars, $hook) {
  // Collect all information for the active theme.
  $themes_active = array();
  global $theme_info;

  // If there is a base theme, collect the names of all themes that may have
  // preprocess files to load.
  if($theme_info->base_theme) {
    global $base_theme_info;
    foreach($base_theme_info as $base){
      $themes_active[] = $base->name;
    }
  }

  // Add the active theme to the list of themes that may have preprocess files.
  $themes_active[] = $theme_info->name;

  // Check all active themes for preprocess files that will need to be loaded.
  foreach($themes_active as $name) {
    if(is_file(drupal_get_path('theme', $name) . '/preprocess/preprocess-' . str_replace('_', '-', $hook) . '.inc')) {
      include(drupal_get_path('theme', $name) . '/preprocess/preprocess-' . str_replace('_', '-', $hook) . '.inc');
    }
  }
}
```

studio/canvas/preprocess

- preprocess-block.inc
- preprocess-node.inc
- preprocess-page.inc
- preprocess-comment.inc
- preprocess-region.inc

studio/canvas/preprocess

- preprocess-block.inc → block.tpl.php
- preprocess-node.inc → node.tpl.php
- preprocess-page.inc → page.tpl.php
- preprocess-comment.inc → comment.tpl.php
- preprocess-region.inc → region.tpl.php

A normal page.tpl.php

```
print this  
print that
```

```
<?php if ($left): ?>  
  <div id="region-left" class="sidebar"> ←  
    <?php print $left ?>  
  </div>  
<?php endif; ?>
```

```
<?php if ($right): ?>  
  <div id="region-right" class="sidebar"> ←  
    <?php print $right ?>  
  </div>  
<?php endif; ?>
```

```
print some more
```

```
<body<?php print $attributes; ?>>
  <?php if (!empty($logo)): ?>
    <a href="<?php print $front_page; ?>" title="<?php print t('Home'); ?>" rel="home" id="logo">
      " />
    </a>
  <?php endif; ?>
  <?php if (!empty($site_name)): ?>
    <h1 id="site-name">
      <a href="<?php print $front_page ?>" title="<?php print t('Home'); ?>" rel="home"><?php print $site_name; ?></a>
    </h1>
  <?php endif; ?>
  <?php print $site_slogan; ?>
  <?php print $search_box; ?>
  <?php print $header; ?>
  <?php print theme('links', $primary_links, array('class' => 'links primary-links')); ?>
  <?php print $left; ?>
  <?php print $right; ?>
  <?php print $mission; ?>
  <?php if (!empty($title)): ?>
    <h2 class="title" id="page-title"><?php print $title; ?></h2>
  <?php endif; ?>
  <?php print $tabs; ?>
  <?php print $messages; ?>
  <?php print $help; ?>
  <?php print $content; ?>
  <?php print $feed_icons; ?>
  <?php print $left; ?>
  <?php print $right; ?>
  <?php print $footer_message; ?>
  <?php print $footer; ?>
  <?php print $closure; ?>
</body>
```

region.tpl.php

```
<div<?php print $attributes; ?>>  
  <?php print $region->content; ?>  
</div>
```

```
<div id="region-left" class="sidebar">  
  <?php print $left ?>  
</div>
```

canvas' node.tpl.php

```
<div<?php print $attributes; ?>
```

In virtually every
template file in studio

```
<?php print $picture; ?>
```

```
<?php if (!$page): ?>
```

```
  <h2><a href="<?php print $node_url ?>" title="<?php print $title ?>"><?php print $title ?></a></h2>
```

```
<?php endif; ?>
```

```
<?php print $submitted; ?>
```

```
<?php print $terms; ?>
```

```
<?php print $content; ?>
```

```
<?php print $links; ?>
```

```
</div>
```

preprocess-node.inc

```
...  
  
// Add an id to allow the styling of a specific node.  
$vars['node_attributes']['id'] = 'node-' . $vars['type'] . '-' . $vars['nid'];  
  
// Add a class to allow styling based on publish status.  
if ($vars['status'] > 0) {  
    $vars['node_attributes']['class'][] = 'published';  
}  
else {  
    $vars['node_attributes']['class'][] = 'not-published';  
}  
  
...
```

the magic

```
$vars['attributes'] = theme('render_attributes', $vars['node_attributes']);
```

canvas' node.tpl.php

```
<div<?php print $attributes; ?>>
```

```
<?php print $picture; ?>
```

```
<?php if (!$page): ?>
```

```
  <h2><a href="<?php print $node_url ?>" title="<?php print $title ?>"><?php print $title ?></a></h2>
```

```
<?php endif; ?>
```

```
<?php print $submitted; ?>
```

```
<?php print $terms; ?>
```

```
<?php print $content; ?>
```

```
<?php print $links; ?>
```

```
</div>
```

```
<div id="node-page-6" class="published">
```

theme_render_attributes

```
function canvas_render_attributes($attributes) {  
    if(is_array($attributes)) {  
        $items = array();  
        foreach($attributes as $attribute => $data) {  
            if(is_array($data)) {  
                $data = implode(' ', $data);  
            }  
            $items[] = $attribute . '=' . $data . ' ';  
        }  
        $output = ' ' . implode(' ', $items);  
    }  
    return $output;  
}
```

So What?

- Completely fabricated example

Scenario

- “news” content type, teaser

<p>Carleton College Defeats Colorado for National Title</p>  <p>Nulam iaculis omare libero at dictum. Praesent vitae sem arcu. Ut aliquam rutrum ultrices. Donec eget lorem turpis, ut luctus odio. Etiam ac nibh orci. Donec purus arcu, semper ac convalis a, congue a mi. Vivamus lacinia auctor eros. Curabitur blandit suscipit lorem, non suscipit dolor consequat ac! Sed vulputate condimentum purus et cursus. Aenean nec tempor leo. Class aptent taciti sociosqu ad litora torquent per conubia nostra, per inceptos himenaeos. Maecenas ut eros magna. Nulla lobortis libero a dolor adipiscing rutrum eget ac ligula. Nunc a sapien vitae justo volutpat feugiat id non uma. Nam fringilla augue ac lorem omare non commodo metus tincidunt. Cras quam nulla, malesuada sed egestas ac, tempus ut erat. Sed quam nibh, consequat et dictum a, imperdiet vel lectus. Aenean ut lectus erat, sed commodo est. Vivamus dictum elit quis elit imperdiet sit amet tempor risus posuere.</p>	<p>California-Santa Barbara Wins Women's Nationals</p>  <p>Nulam iaculis omare libero at dictum. Praesent vitae sem arcu. Ut aliquam rutrum ultrices. Donec eget lorem turpis, ut luctus odio. Etiam ac nibh orci. Donec purus arcu, semper ac convalis a, congue a mi. Vivamus lacinia auctor eros. Curabitur blandit suscipit lorem, non suscipit dolor consequat ac! Sed vulputate condimentum purus et Class aptent taciti sociosqu ad litora torquent per conu Maecenas ut eros magna. Nulla lobortis libero a dolor Nunc a sapien vitae justo volutpat feugiat id non uma. Nam fringilla augue ac lorem omare non commodo metus tincidunt. Cras quam nulla, malesuada sed egestas ac, tempus ut erat. Sed quam nibh, consequat et dictum a, imperdiet vel lectus. Aenean ut lectus erat, sed commodo est. Vivamus dictum elit quis elit imperdiet sit amet tempor risus posuere.</p>
--	--

Option 1

```
#block-block-54 .block-content .node-news {  
  width: 50%;  
  float: left;  
}
```

CSS should be:

- clean
- semantic
- re-usable
(not like ←)

Goal: get the class “news-teaser” onto the node wrapper

node.tpl.php from garland

```
<div id="node-<?php print $node->nid; ?>" class="node<?php if  
($sticky) { print ' sticky'; } ?><?php if (!$status) { print '  
node-unpublished'; } ?>">
```

...

Option 1

node-news.tpl.php

```
<div id="node-<?php print $node->nid; ?>" class="node<?php if  
($sticky) { print ' sticky'; } ?><?php if (!$status) { print '  
node-unpublished'; } ?>"<?php if($page == 0) { print ' news-  
teaser'; } ?>">
```

...

unmaintainable

Option 2

- Use studio.
- In preprocess-node.inc add

```
if($vars['page'] == 0) {  
  $vars['node_attributes']['class'][] = $vars['type'] . '-teaser';  
}
```

Benefits

- Structured, sustainable, rapid theme development
- Because Studio keeps attributes as arrays, modules have the capability of providing attributes to the theme.
- RDFa

Studio

<http://drupal.org/project/studio>

@ultimateboy + @Zarabadoo

pingVISION™