

PSD to Theme: The SMACSS Way

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www.drupalize.me

lb.cm/smaccs-badcamp



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photo credit: mortendk



drupalize  me

The Old Way to PSD to Theme

1. Sketch out the design components.
2. Choose an appropriate base theme.
3. Apply relevant static images to the main tpl.php files.
4. Launch the theme.
5. Look for bugs and create high specificity selectors to target and fix problems.

The New Way to PSD to Theme

1. Sketch out the design components.
2. Create a library of basic styles according to SMACSS convention.
3. Adjust Drupal class names to match style component names.
4. Look for bugs and refactor the component styles to match the design.

Pro Tip

Let your base theme take care of your requirements:

- grid framework
- accessibility compliance
- responsive defaults

Intro to SMACSS

SMACSS

- Semantic and Scalable Architecture for CSS
- Jonathan Snook
- <http://smacss.com/>

SMACSS Rules

- Base rules (HTML element overrides)
- Layout rules (wire frames)
- Component rules (anything that can be placed, or reused on your site)
- State rules (augments and overrides)
- Theme rules (variations)

Folder Structure

- **base:**
HTML element
- **components:**
almost everything
- **global:**
extension of HTML
element
- **layout:**
region definitions



```
// Compass Imports
@import "compass";
@import "susy";

// Include all the things!
// Global Imports
@import "global/variables";

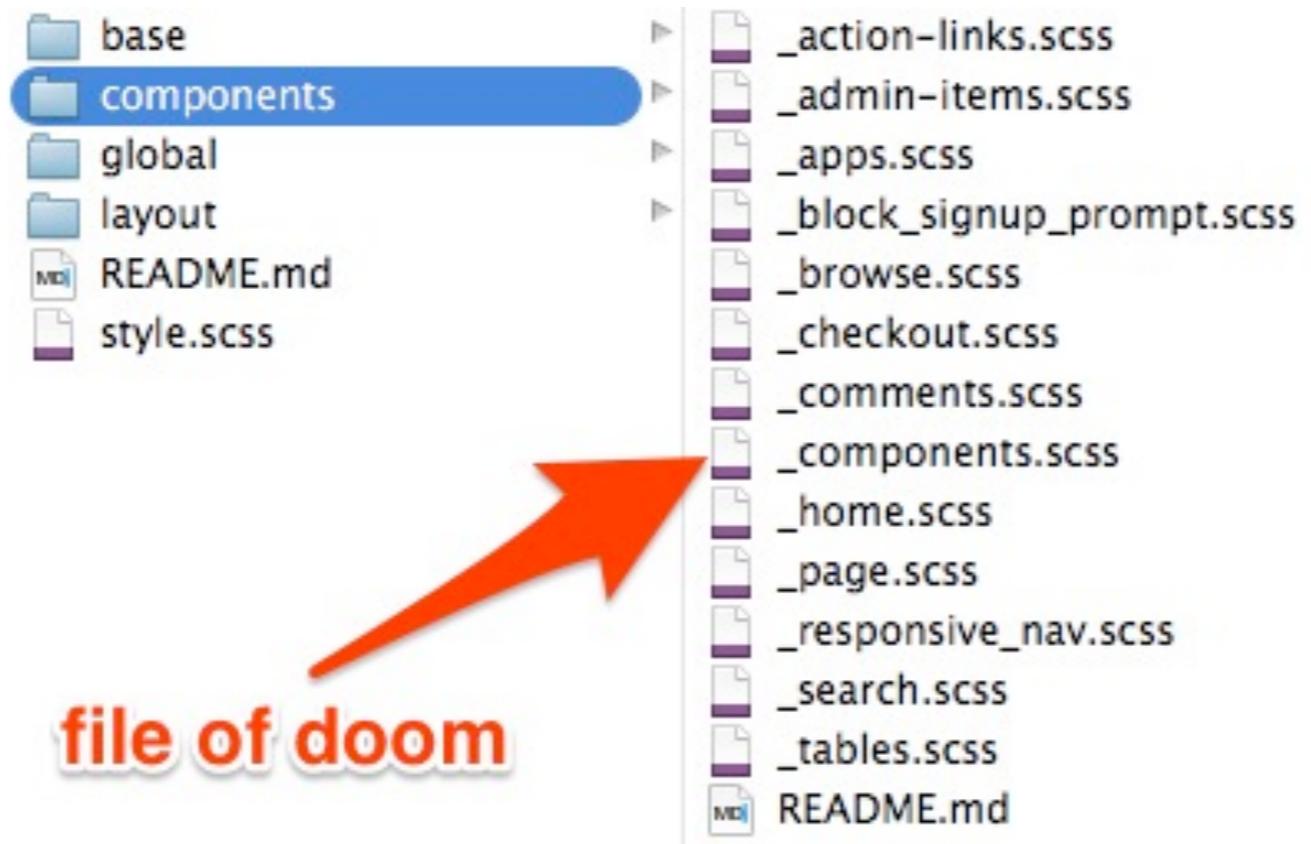
@import "global/global";
@import "global/normalize";
@import "global/mixins";
@import "global/responsive-nav";
@import "global/typography";
@import "global/images";
@import "global/aside";
@import "global/footer";
@import "global/forms";

@import "base/base";
@import "layout/default";|
@import "layout/funnel";

@import "components/action-links";
@import "components/block_signup_prompt";
@import "components/components";
@import "components/admin-items";
@import "components/comments";
@import "components/apps";
@import "components/browse";
@import "components/tables";
@import "components/responsive_nav";
@import "components/search";
@import "components/checkout";
@import "components/home";

@import "global/overrides";
@import "global/refactor";
```

styles.scss



components

Pro Tips

- Separate your components into their own files from the beginning.
- Name your files according to the container selector found in the DOM.
- A component isn't accepted until it's documented with a screenshot referenced from the SCSS file.

yeahbuthow?

You new here?

“Are you new to front-end web development? Here's a secret: no one else really knows what they're doing either.”

~ Nicolas Gallagher

Ask Yourself Three Questions

1. What's the shape?
2. What's consistent throughout the site?
3. What can be moved like furniture?

big to little



AT HOME

[Who We Are](#)

[What We Do](#)

[How To Help](#)

[SUBSCRIBE](#)

[SEARCH](#)

LINKS

[Tatam Ram Aperiam](#)

[Solenenque Laudantium](#)

[Gesnerunt Mollit.](#)



FURNITURE LINENS DISHES

Be it ever so humble,
there's no place
like home.

*Treasuring the things that make
your house a home.*



Design

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dolorumque laudantium, totam rem aperiam, eaque ipsa quae ab illo invento
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TRENDS



*Lorem ips adipi atone
mollis ei ellttaklateum
consetetur coemque ut.*

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movet congue albucus ea nam, grat
ce labore patrioque cu his. Eu sit ubi
que cotidieque. Timeam voluptua sin
gula nec eu, at mel admodum copio
sae assertior. Cum in congue molest
ie atomorum. [MORE...](#)*



PORTFOLIO

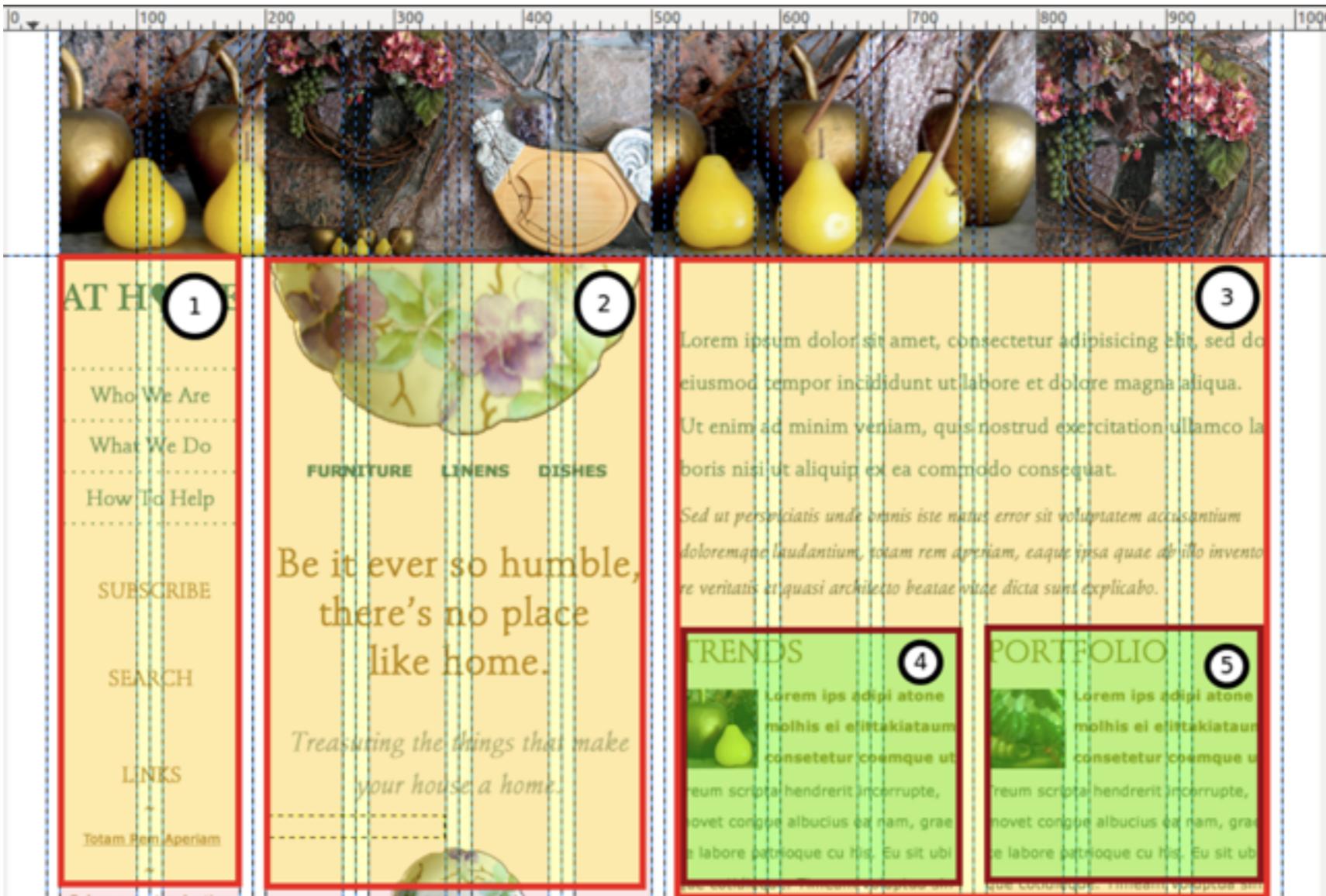


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ie atomorum. [MORE...](#)*

What's the shape?

these are your layout rules

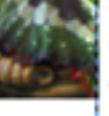


Layout Rules

The image shows a website layout with a grid overlay. The grid has 12 columns, with numerical labels at the top: 0, 100, 200, 300, 400, 500, 600, 700, 800, 900, and 1000.

- Header:** A large banner image at the top features yellow and gold pears, a blue vase, and a pink hydrangea arrangement.
- Left Sidebar (Columns 1-3):**
 - AT HOME**
 - [Who We Are](#)
 - [What We Do](#)
 - [How To Help](#)
 - SUBSCRIBE**
 - SEARCH**
 - LINKS**
 - [Totam Rem Aperiam](#)
 - [Sedoremque Laudantium](#)
 - [Deserunt, Mollit,](#)
- Header Navigation (Column 4):**
 - [FURNITURE](#)
 - [LINENS](#)
 - [DISHES](#)
- Main Content (Columns 5-12):**
 - Text:** Be it ever so humble,
there's no place
like home.
*Treasuring the things that make
your house a home.*
 - 
 - TRENDS**

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 - PORTFOLIO**

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que cotidieque. Timeam voluptua sin
gulis nec eu, et mel admodum copio
sae assentior. Cum in congue molest
ie atomorum. [MORE...](#)

Identify the Grid

`id="page" container: 12 columns`

`id="banner" grid: 12 columns`

`without <div id="main"> the three columns fit directly into container-12 and do not need alpha/omega`

`id="nav"
grid: 2
order: n/a`

`id="feature"
grid: 4
order: n/a`

`id="content"
grid: 6
order: n/a`

`id="copyright" grid: 12 columns`

Sketch the Essence

layout/_default.scss

(depends on your base theme and/or grid framework)

What's consistent throughout the site?

these are (typically) your base rules



AT HOME

Who We Are

What We Do

How To Help

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LINKS

Totam Rem Aperiam

Sedentumque Laudentium

Deserunt Molli.



FURNITURE LINENS DISHES

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TRENDS

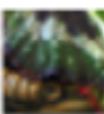


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PORTFOLIO



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ie atomorum. MORE...*

Base Rules

base/_base.scss

```
html {  
  width: 100%;  
  height: 100%;  
  -webkit-overflow-scrolling: touch;  
  display: block;  
  @include border-box-sizing;
```

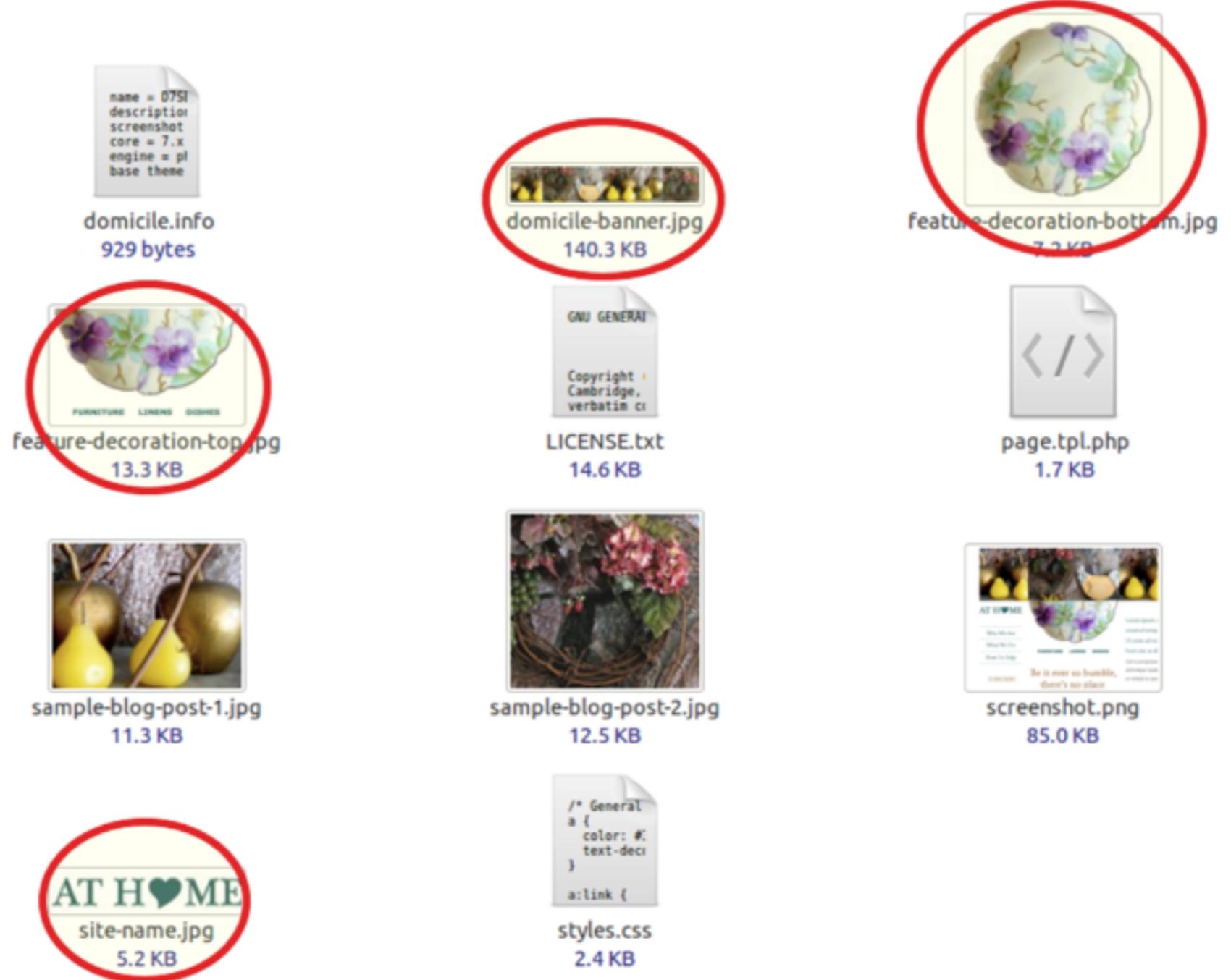
What can be moved
like furniture?

these are your components

The diagram illustrates a website layout with various sections and visual elements. A horizontal ruler at the top indicates pixel positions from 0 to 1000. The layout includes:

- Header:** A large banner image featuring yellow pears and a red circle containing the number 1.
- Navigation:** A sidebar on the left with a red header "AT HOME" containing "Who We Are", "What We Do", and "How To Help". Below this are "SUBSCRIBE", "SEARCH", and "LINKS" sections with placeholder text.
- Content:** A central area with a decorative plate containing purple flowers (callout 3) and a quote: "Be it ever so humble, there's no place like home." Below the quote is a smaller text: "Treasuring the things that make your house a home." and a circular icon (callout 4).
- Text:** A large amount of placeholder text (Lorem ipsum) in the right column.
- Trends:** A section titled "TRENDS" with a small image of a pear and some text.
- Portfolio:** A section titled "PORTFOLIO" with two items, each featuring a small image and placeholder text.

Identify Visual Anchors



Extract the Anchors (aka images)



AT HOME

Who We Are

What We Do

How To Help

SUBSCRIBE

SEARCH

LINKS

- [Tatam. Ram Aperiam](#)
- [Soloremque Laudantium](#)
- [Gesund! Melli.](#)
-

Be it ever so humble,
there's no place
like home.

*Treasuring the things that make
your house a home.*



FURNITURE LINENS DISHES

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PORTFOLIO



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Recognize Components



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- Totam Rem Aperiam
- Solutemque Laudantium
- Generum Mollit.

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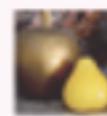
FURNITURE LINENS DISHES

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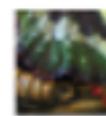
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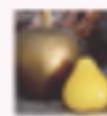
FURNITURE LINENS DISHES

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PORTFOLIO



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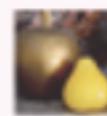
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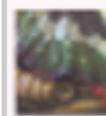
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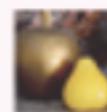
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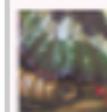
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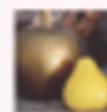
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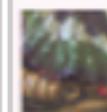
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Recognize Components

components/ _news-teaser.scss

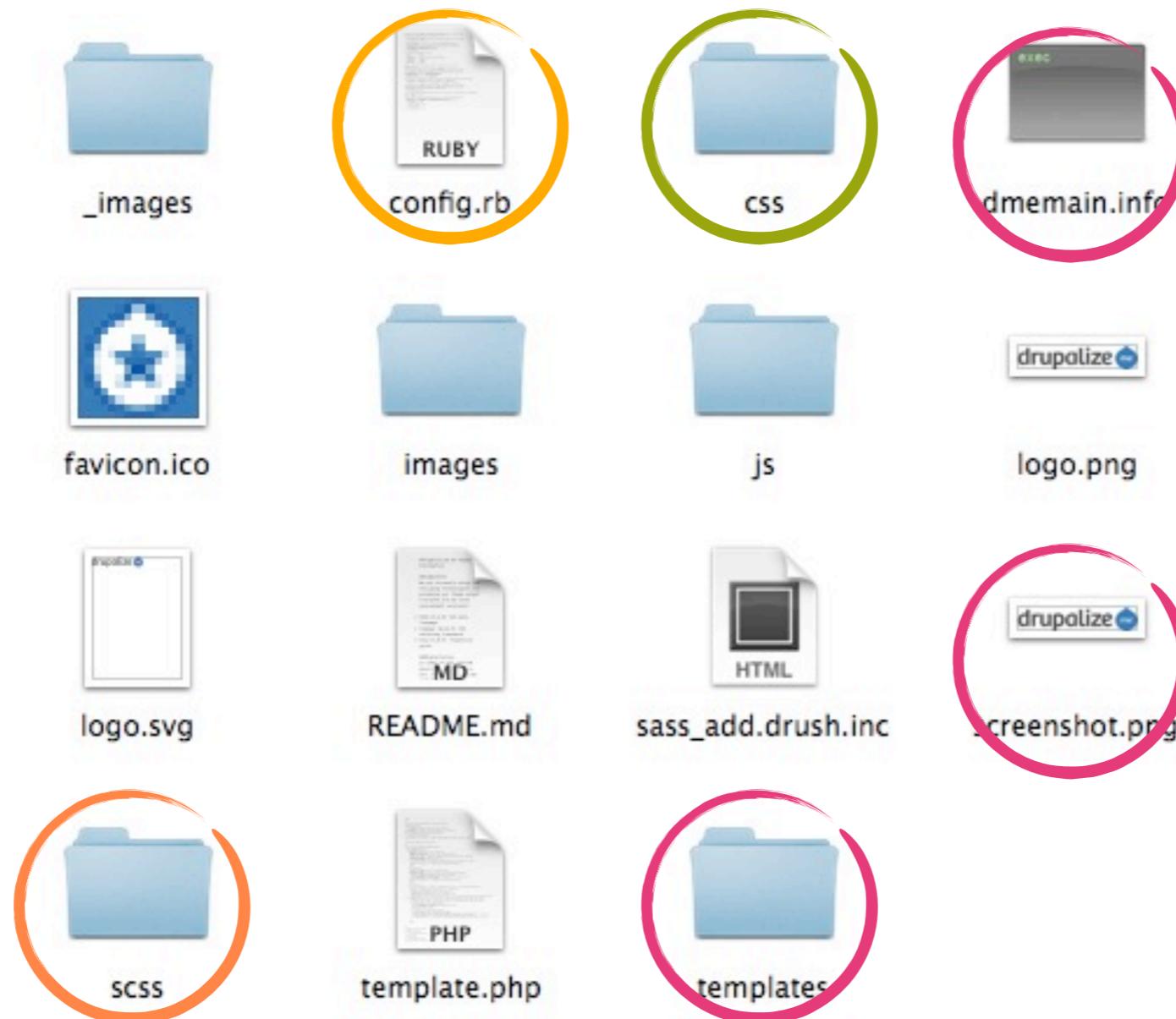
How is it different than your base rules?

```
.news-teaser {  
  
  h2 { text-transform: uppercase; }  
  
  p:first-child { color: $highlight; }  
  
  p { color: $base; }  
  
}
```

Apply it to Drupal.

With your components in mind, build your site.

You cannot apply a style to an element
which isn't rendering on the page.



Establish Your Theme

- .info file
- regions (from layout rules)
- add the SCSS files and crunched CSS files
- add your page.tpl.php file from your base theme of choice with regions defined + printed

```
id="page" class="container-12 clearfix">
ef="#content" style="display: none">skip to content</a>
v id="banner" class="grid-12 clearfix">
a href="<?php print $front_page; ?>" title="Back to <?php print $site_name; ?> home pa
; ?>" alt="Back to <?php print $site_name; ?> home page." /></a>
iv>
v id="main" class="grid-12 clearfix">
div id="nav" class="grid-2 alpha">
<a href="<?php print $front_page; ?>" title="Back to <?php print $site_name; ?> home
<h1 id="site-name">
/div>
div id="feature" class="grid-4">
<div class="decoration"></div>
<?php print render($page['feature_middle']); ?>
<div class="decoration">
<?php print render($title_prefix); ?>
<?php if ($title): ?>
<h1 class="title" id="page-title"><?php print $title; ?></h1>
```

Adjust page.tpl.php



AT H \heartsuit ME



FURNITURE LINENS DISHES



Welcome to
site1.dev4.webenabled.net

No front page content has been created yet.

- [Add new content](#)

h

Launch an MVP Theme

Apply Your Styles

- Alter your SCSS with extend.

```
.drupal-weird-class {  
  @extend .my-awesome-class;  
}
```

- Alter Drupal's classes.

```
template.php
```

Refactor:
Remove what's not working.
Repeat.

Summary

- the benefits of theming by component
- what you need to have in place before you start
- what's worth keeping from SMACSS (and what's just overhead)
- how to refine her simple procedure so it works for your team, and with any version of Drupal

Applying SMACSS to Drupal

- CSS Coding Standards:
<https://drupal.org/node/1886770>
- Applying SMACSS to Drupal:
<http://atendesigngroup.com/blog/applying-smacss-drupal>
- Dominate the Theme Layer:
<http://munich2012.drupal.org/program/sessions/dominate-theme-layer.html>

PSD to Theme: The SMACSS Way

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video lessons for this presentation coming soon!

slides: lb.cm/smaccs-badcamp