

COMPONENT BASED THEMING WITH UI PATTERNS AND PATTERN LAB

PRESENTED BY BRIAN PERRY

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Slides: <http://bit.ly/ui-patterns-bc>

BRIAN PERRY

Hi!

- Sr. Front End Developer at HS2 Solutions
- Rocking the Chicago suburbs
- Lover of all things components
- ... and Nintendo

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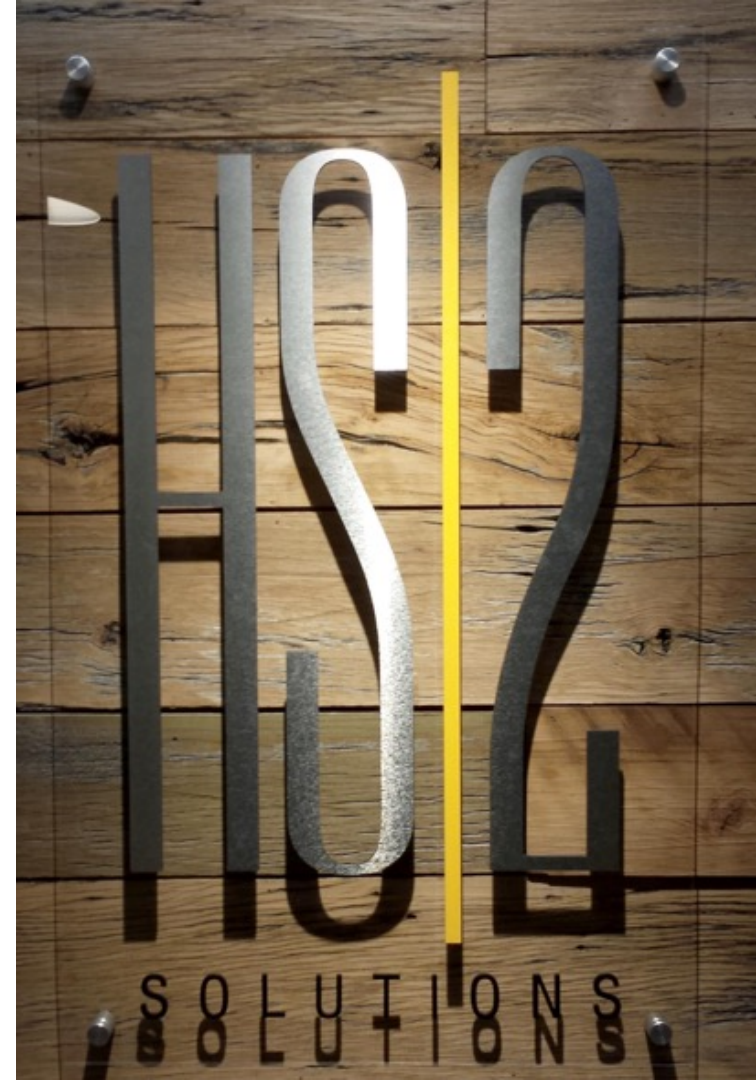
Github: backlineint

Nintendo: wabrian

brianperryinteractive.com



HS2 SOLUTIONS

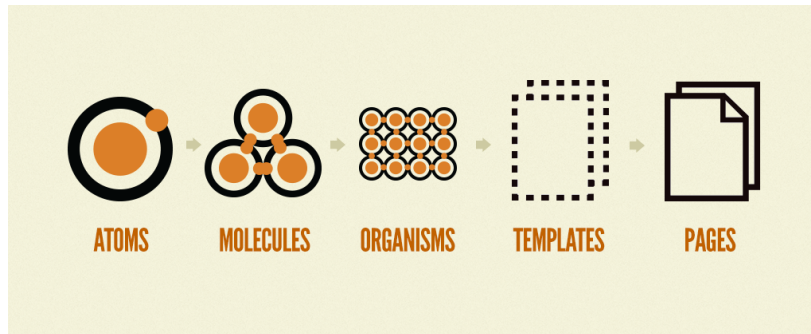


Component Based Theming ~~*With UI Patterns*~~

COMPONENT BASED THEMING

What is it?

- Creating modular and re-usable elements
- Building a design system, not a series of pages
- Can use a pattern library for documentation and prototyping
 - Tools like Pattern Lab and Fractal



COMPONENT BASED THEMING

Why Take a component based approach?

- Efficient re-use
 - Write once, use everywhere.
 - Within a single project and even across projects (beyond Drupal even)
- Well isolated chunks of code
- Decoupling front and back end development
 - Theming doesn't have to come last
- Living Style Guide / Pattern Library
 - Simplifies coordination between designers and developers / developers and developers.
 - Rapid prototyping
 - Design system source of truth

Component Based Theming ~~With~~ Without UI Patterns

WHERE DO I PUT MY PATTERN LIBRARY?

- Many Drupal projects embed the pattern library in a theme. But...
- Consider making a your pattern library an external composer dependency of your theme
 - Could other projects (other CMSes?) use these components?
 - Could it allow a broader set of contributors to build components?

Time Travel Session: [Decouple Pattern Lab from Your D8 Theme \(SF.gov\)](#)

OUR COMPONENT



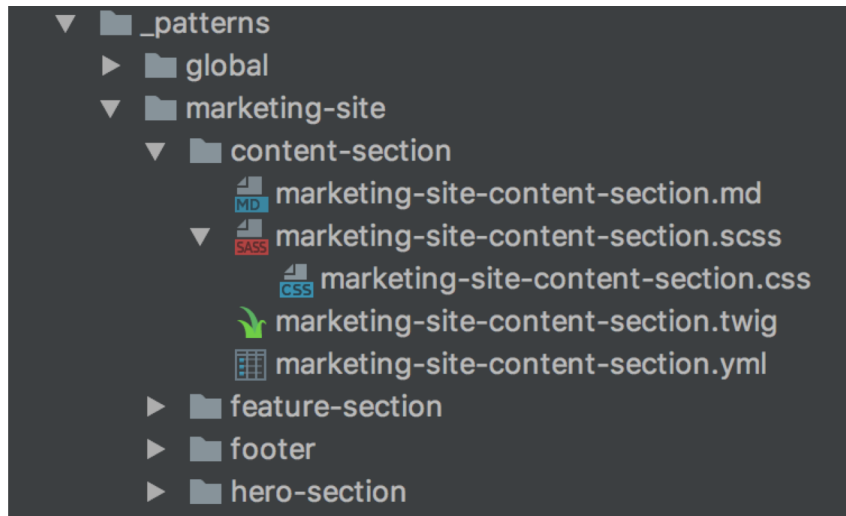
Yeti Snowcone Agency

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Aperiam omnis, maxime libero natus qui minus!

[LEARN MORE](#)

THE COMPONENT DIRECTORY

- Everything lives inside component directory in Pattern Lab
 - SASS
 - Twig
 - JS
 - Other Assets
 - Pattern Data



MARKUP AND STYLES

```
marketing-site-content-section.twig      marketing-site-content-section.scss


HS2 SOLUTIONS | COMPONENT BASED THEMING WITH UI PATTERNS



11


```

COMPONENT IN PATTERN LAB

content section

Content Section

A responsive content section that features equal height images and content containers. On mobile they collapse to a card like setup.

The *Content Section* pattern is included in the following patterns: [marketing-site-marketing-site-landing](#)

Twig

HTML

```
<div class="marketing-site-content-section">
  <div class="marketing-site-content-section-img">
    
```



Yeti Snowcone Agency

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Aenean ornare, maximus libero natus qui minus!

LEARN MORE

ADD EXTERNAL PATTERN LAB DEPENDENCY TO DRUPAL

- Current take on approach for composer managed Drupal projects:
 - In Pattern Lab project:
 - Add composer.json with "name": "(orgname)/(repository_name)"
 - In Drupal project:
 - Add repositories entry in composer.json referencing Pattern Lab repository
 - Require [composer-copy-file](#)
 - Configure composer.json to copy Pattern Lab instance from vendor dir to custom theme (may want to .gitignore)
 - Composer require your Pattern Lab project

Many other options – working on a blog post.

MAPPING TO DRUPAL

Defining a Twig Namespace - foundation_patterns.info.yml

```
# This section is used by the contrib module, Component Libraries. It allows you  
# to reference .twig files in your sass/ directory by using the Twig namespace:  
# @components  
component-libraries:  
  marketing:  
    paths:  
      - pattern-lab/source/_patterns/marketing-site  
  global:  
    paths:  
      - pattern-lab/source/_patterns/global
```


MAPPING TO DRUPAL

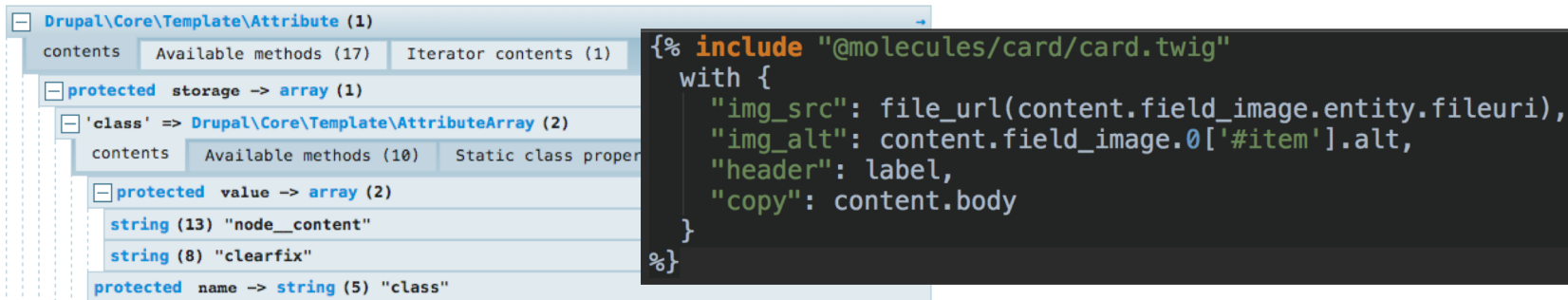
Drupal Presenter Template - paragraph--marketing-content-section.html.twig

```
1  {{ attach_library('foundation_patterns/marketing-site-content-section') }}
2
3  {% include "@marketing/content-section/marketing-site-content-section.twig"
4      with {
5          "image": content.field_fpc_image,
6          "header": content.field_fpc_header,
7          "subheader": content.field_fpc_subheader,
8          "button": content.field_fpc_link
9      }
10 %}
```

PAIN POINTS

It works, but...

- Requires quite a bit of debugging
- Difficult for those not familiar with Twig / Render Array Structure
- Easy to get carried away / break things Drupal depends on (Quickedit, Panels IPE)
- card.twig is a black box to Drupal



The image shows a screenshot of a code editor. On the left, the file explorer displays the structure of the `Drupal\Core\Template\Attribute` class. It shows a `protected storage` property pointing to an `array` of size 1, which contains a `'class'` property pointing to `Drupal\Core\Template\AttributeArray` of size 2. This array contains a `protected value` property pointing to an `array` of size 2, which contains two `string` properties: `"node__content"` (size 13) and `"clearfix"` (size 8). The `AttributeArray` also has a `protected name` property pointing to a `string` of size 5, with the value `"class"`.

On the right, a snippet of Twig code is shown, illustrating how the `card.twig` template is included and rendered:

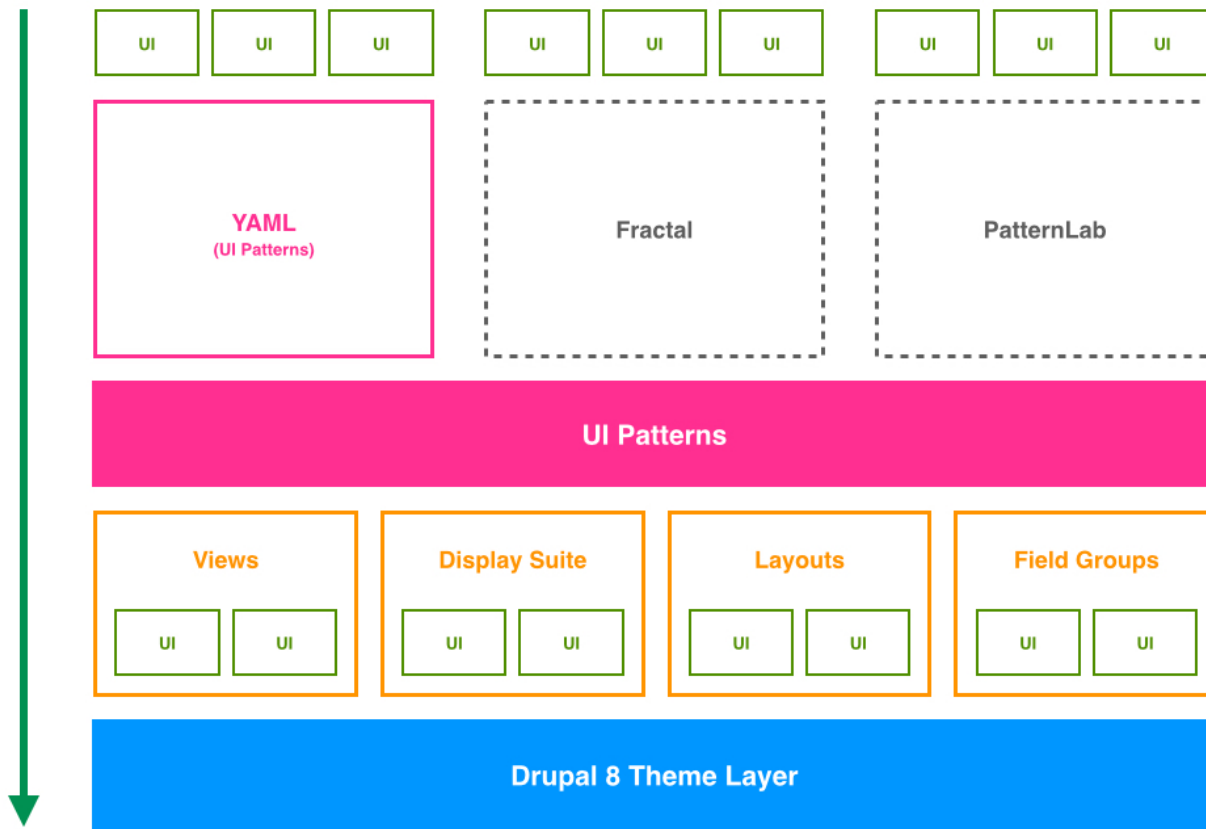
```
{% include "@molecules/card/card.twig"
with {
  "img_src": file_url(content.field_image.entity.fileuri),
  "img_alt": content.field_image.0['#item'].alt,
  "header": label,
  "copy": content.body
}
%}
```

Component Based Theming With UI Patterns

UI PATTERNS MODULE

Define and manage components in a way that Drupal understands

- Define UI Patterns as Drupal Plugins
- Use defined patterns with component friendly modules
 - Views, field groups, panels, display suite, paragraphs (requires field layout or display suite)
- Configure data mappings in the UI
- Optional Pattern Library page exposed in Drupal
- Also allows Drupal to:
 - Preprocess patterns
 - Render patterns programmatically



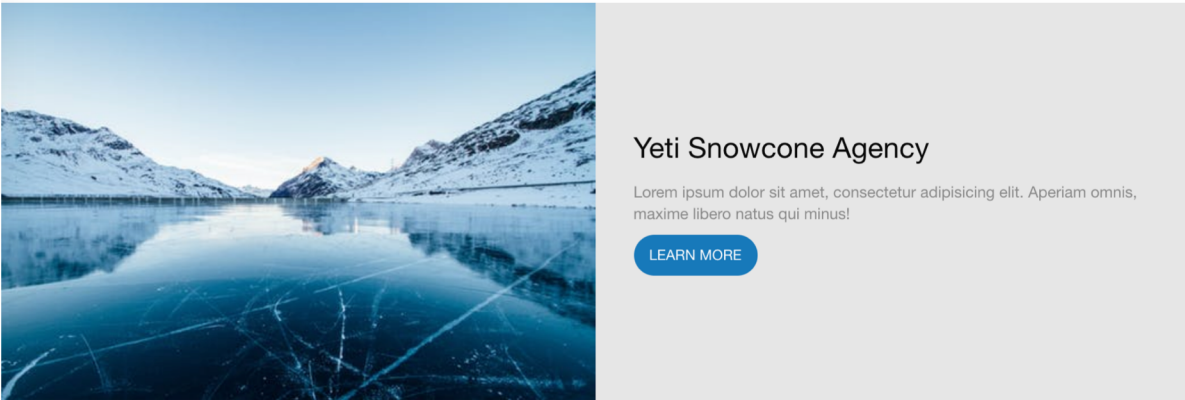
UI PATTERNS LIBRARY SUBMODULE

Marketing Site Content Section

A responsive content section that features equal height images and content containers. On mobile they collapse to a card like setup.

Field	Label	Type	Description
image	Image	image	Associated image.
header	Header	text	Header Text
subheader	Subheader Text	text	Subheader Text
button	More Button	link	Button leading to detail view.

Preview



[View Marketing Site Content Section as stand-alone](#)

DEFINING A PATTERN

marketing-site-content-section.pattern.yml

```
marketing_site_content_section:
  label: Marketing Site Content Section
  description: A responsive content section that features equal height images and content containers. On mobile
  they collapse to a card like setup.
  fields:
    image:
      type: image
      label: Image
      description: Associated image.
      preview: >
        
    header:
      type: text
      label: Header
      description: Header Text
      preview: Yeti Snowcone Agency
    subheader:
      type: text
      label: Subheader Text
      description: Subheader Text
      preview: Lorem ipsum dolor sit amet, consectetur adipisicing elit. Aperiam omnis, maxime libero natus qui
    button:
      type: link
      label: More Button
      description: Button leading to detail view.
      preview: >
        <a href="#" class="round button small">learn more</a>
  use: "@marketing/content-section/marketing-site-content-section.twig"
  libraries:
    - pattern:
        css:
          component:
            marketing-site-content-section.css: {}
```

marketing_site_content_section:

label: Marketing Site Content Section

description: A responsive content section that features equal height images and content containers. On mobile they collapse to a card like setup

marketing_site_content_section:

label: Marketing Site Content Section

description: A responsive content section that features equal height images

fields:

preview: >

```

```

header:

type: text

label: Header

description: Header Text

preview: Yeti Snowcone Agency

subheader:

type: text

label: Subheader Text

description: Subheader Text

preview: Lorem ipsum dolor sit amet, consectetur adipisicing elit. Aperiam omnis, maxime libero natus qui

minus!

button:

type: link

label: More Button

description: Button leading to detail view.

preview: >

```
<a href="#" class="round button small">learn more</a>
```

use: "@marketing/content-section/marketing-site-content-section.twig"

libraries:

- **pattern:**

css:

marketing_site_content_section:
label: Marketing Site Content Section
description: A responsive content section that features equal height images and content containers. On mobile they collapse to a card like setup.
fields:

fields:

image:

type: image

label: Image

description: Associated image.

preview: >

learn more

use: "@marketing/content-section/marketing-site-content-section.twig"

libraries:

- **pattern:**

css:

marketing_site_content_section:

label: Marketing Site Content Section

description: A responsive content section that features equal height images and content containers. On mobile they collapse to a card like setup.

fields:

image:

type: image

label: Image

description: Associated image.

preview: >

```

```

header:

type: text

label: Header

description: Header Text

preview: Yeti Snowcone Agency

subheader:

type: text

use: "@marketing/content-section/marketing-site-content-section.twig"

libraries:

- pattern:

CSS:

component:

marketing-site-content-section.css: {}

use: "@marketing/content-section/marketing-site-content-section.twig"

libraries:

- pattern:

CSS:

CAN I GET A SUGGESTION?

pattern-marketing-site-content-section.html.twig

- If 'use:' doesn't make sense for you, default template suggestions exist.
 - Could add your twig markup here
 - Can even include/extend/embed and map data.
- Can preprocess to add additional suggestions.
 - See `hook_theme_suggestions_alter()`

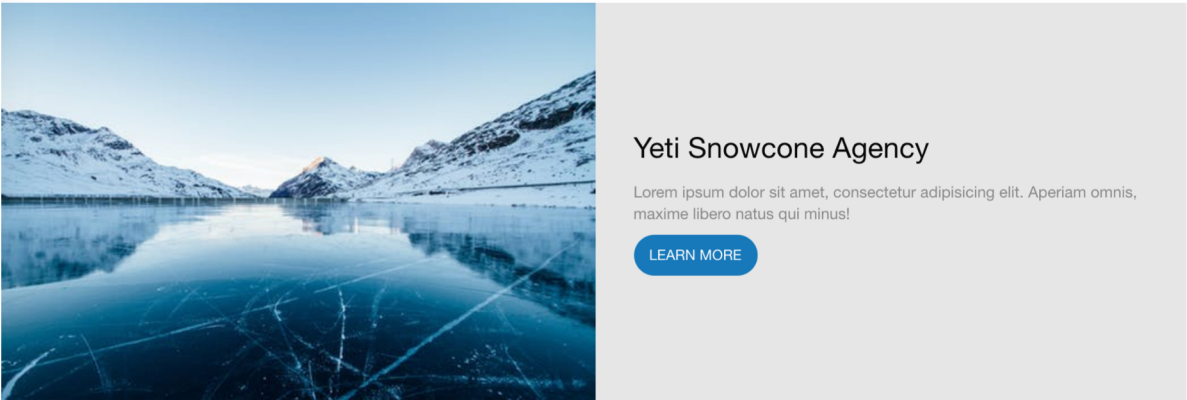
DRUPAL PATTERN LIBRARY

Marketing Site Content Section

A responsive content section that features equal height images and content containers. On mobile they collapse to a card like setup.

Field	Label	Type	Description
image	Image	image	Associated image.
header	Header	text	Header Text
subheader	Subheader Text	text	Subheader Text
button	More Button	link	Button leading to detail view.

Preview



[View Marketing Site Content Section as stand-alone](#)

**AND NOW FOR THE PART
THAT EVERYONE GETS
TRIPPED UP ON...**

EXPOSING YOUR PATTERN IN DRUPAL

Integration modules

- **UI Patterns Layouts** – makes patterns available via Layout Discovery
- **UI Patterns Views** – makes patterns available as views row style
- **UI Patterns Display Suite** – makes patterns available as display suite field templates
- **UI Patterns Field Group** – makes patterns available to field groups

Looking for a place to start?

- Enable Field Layout
- Enable UI Patterns Layouts
- Begin enjoying your patterns anywhere layouts are available.

Paragraphs are common component friendly option.

CREATE PARAGRAPH TYPE

Manage fields ☆

[Edit](#)[Manage fields](#)[Manage form display](#)[Manage display](#)

[Home](#) » [Administration](#) » [Structure](#) » [Paragraphs types](#) » [Fpc marketing content section](#)

[+ Add field](#)

LABEL	MACHINE NAME	FIELD TYPE	OPERATIONS
Header	field_fpc_header	Text (plain)	Edit ▼
Image	field_fpc_image	Image	Edit ▼
Link	field_fpc_link	Link	Edit ▼
Subheader	field_fpc_subheader	Text (plain, long)	Edit ▼

MANAGE DISPLAY: LAYOUT SETTINGS

Select your pattern from the list.

▼ LAYOUT SETTINGS

Select a layout

Marketing Site Content Section ▼

▼ PATTERN SETTINGS

Field templates

Only content ▼

Default: use field templates to wrap field content.

Only content: only print field content, without field wrapping or label.

Columns: 1

One column

Patterns

✓ Marketing Site Content Section

Marketing Site Feature

Marketing Site Feature Section

Marketing Site Footer

Marketing Site Hero Section

Menu Link

Pricing Table

Pricing Table Secondary Items

Read More

Responsive Social Link

Responsive Social Media Section

Social Link

Testimonial Block Vertical

Testimonial Slider

Testimonial Slider Item








Top Bar with Animation.

MAP PARAGRAPH FIELDS TO PATTERN FIELDS

EditManage fieldsManage form displayManage display

Home » Administration » Structure » Paragraphs types » Fpc marketing content section

Show row weights

FIELD	LABEL	FORMAT	
Image			
 Image	<div>- Hidden -</div>	<div>Image</div>	Original image 
Header			
 Header	<div>- Hidden -</div>	<div>Plain text</div>	
Subheader Text			
 Subheader	<div>- Hidden -</div>	<div>Plain text</div>	
More Button			
 Link	<div>- Hidden -</div>	<div>Link</div>	Link text trimmed to 80 characters 
Disabled			

Beyond The Basics

TESTIMONIAL BLOCK PATTERN

Testimonial Block Vertical

A testimonial block to tell your site visitors how awesome you are.

Field	Label	Type	Description
<code>testimonial_avatar</code>	Testimonial Avatar	image	Associated image.
<code>testimonial_quote</code>	Testimonial Quote Copy	text	Testimonial quote copy
<code>testimonial_person</code>	Testimonial Name	text	Name attributed to Testimonial
<code>testimonial_title</code>	Testimonial Title	text	Title of person attributed to Testimonial
<code>testimonial_company</code>	Testimonial Company	text	Company of person attributed to Testimonial

Preview

Lorem ipsum dolor sit amet, consectetur adipiscing elit. In ultrices, elit sed faucibus pharetra, diam mauris bibendum orci, sit amet ullamcorper purus dui sit amet augue. Donec aliquet diam ut neque mattis, eu tristique sem rutrum.



JOHN DOE

IMPORTANT PERSON, SOME COMPANY

[View Testimonial Block Vertical as stand-alone](#)

UI PATTERNS VIEWS

Page: How should each row in this view be styled



Page: Row style options

☐ Provide default field wrapper elements

If not checked, fields that are not configured to customize the view will be wrapped in default markup. You can use this to quickly reduce the amount of markup in the view.

☐ Hide empty fields

Do not display fields, labels or markup for fields that are empty.

Pattern *

Testimonial Block Vertical

☐ Content

☐ Fields

☒ Pattern

☐ Search results

You may also adjust the [settings](#) for the currently selected row style.

Apply

Cancel

[Show row weights](#)

SOURCE	PLUGIN	DESTINATION
Content: Quote	Views row	Testimonial Quote Copy
Content: Avatar	Views row	Testimonial Avatar
Content: Person Name	Views row	Testimonial Name
Content: Person Title	Views row	Testimonial Title
Content: Person Company	Views row	Testimonial Company

Apply

Cancel

Quotes

Another quote in a list? Amazing.



SETH

VIP OF ENGINEERING , HS2 SOLUTIONS

Lorem ipsum dolor sit amet, consectetur adipiscing elit. In ultrices, elit sed faucibus pharetra, diam mauris bibendum orci, sit amet ullamcorper purus dui sit amet augue. Donec aliquet diam ut neque mattis, eu tristique sem rutrum.














JOHN DOE

IMPORTANT PERSON , SOME COMPANY

UI PATTERNS FIELD GROUP

+ Add group

Show row weights

FIELD	LABEL	FORMAT	
 Quote		Pattern ▼	Pattern: Testimonial Block Vertical delete 
 Quote	- Hidden - ▼	Plain text ▼	
 Avatar	- Hidden - ▼	Image ▼	Original image 
 Person Name	- Hidden - ▼	Plain text ▼	
 Person Title	- Hidden - ▼	Plain text ▼	
 Person Company	- Hidden - ▼	Plain text ▼	

UI PATTERNS FIELD GROUP

Show row weights

FIELD	LABEL	FORMAT
-------	-------	--------

Field group format: pattern_formatter

Field group label

Quote

Pattern *

Testimonial Block Vertical

Show row weights

SOURCE	PLUGIN	DESTINATION
+ Quote	Fields	Testimonial Quote Copy
+ Avatar	Fields	Testimonial Avatar
+ Person Name	Fields	Testimonial Name
+ Person Title	Fields	Testimonial Title
+ Person Company	Fields	Testimonial Company

UpdateCancel

UI PATTERNS DISPLAY SUITE

Choose a Field Template

Pattern ▼

Pattern *

Button ▼

Show row weights

SOURCE	PLUGIN	DESTINATION
⛶ Links	Field template	- Hidden - ▼
⛶ Links: uri	Field template	URL ▼
⛶ Links: title	Field template	Label ▼
⛶ Links: options	Field template	- Hidden - ▼

Update

Cancel

RENDER USING TWIG FUNCTION

```
{# With static content #}

{{ pattern('testimonial_block_vertical',
{
    testimonial_quote: 'Pretty cool how we can use patterns all of these
testimonial_avatar: '',
testimonial_person: 'Pattern Man',
testimonial_title: 'Same Pattern',
testimonial_company: 'Different Context'
}
) }}

{# With dynamic content #}

{{ pattern('testimonial_block_vertical',
{
    testimonial_quote: content.field_quote,
    testimonial_avatar: content.field_avatar,
    testimonial_person: content.field_person_name,
    testimonial_title: content.field_person_title,
    testimonial_company: content.field_person_company
}
) }}
```

Pretty cool how we can use patterns all of these different ways. And you can quote me on that.



PATTERN MAN

SAME PATTERN, DIFFERENT
CONTEXT

RENDER PATTERN PROGRAMMATICALLY

```
<?php
$elements['quote'] = [
  '#type' => 'pattern',
  '#id' => 'testimonial_block_vertical',
  '#fields' => [
    'testimonial_quote' => 'You must do the things you think you cannot do,
    'testimonial_avatar' => '',
    'testimonial_person' => 'Master of teh Codez',
    'testimonial_title' => 'Lead Lead Developer',
    'testimonial_company' => 'Reports to No One'
  ]
];
\Drupal::service('renderer')->render($elements);
```

You must do the things you think you cannot do, like rendering a pattern programmatically.



MASTER OF TEH CODEZ

LEAD LEAD DEVELOPER, REPORTS TO
NO ONE

SUB-PATTERNS

Not yet formally supported, but...

Yeti Approved Features

Lorem ipsum dolor sit amet, consectetur adipisicing elit quaerat eos words and phrases.



Special Snowflake

Lorem ipsum dolor sit amet,
consectetur adipisicing elit.



Friendly Forms

Lorem ipsum dolor sit amet,
consectetur adipisicing elit.



Special Snowflake

Lorem ipsum dolor sit amet,
consectetur adipisicing elit.



Lithium Ion

Lorem ipsum dolor sit amet,
consectetur adipisicing elit.

Preview



Special Snowflake

Lorem ipsum dolor sit amet, consectetur
adipisicing elit.

[View Marketing Site Feature as stand-alone](#)

SUB-PATTERNS

...can use nested paragraphs for same end result

PATTERNS

✚ Marketing Site Feature Section

Remove

Headline

Yeti Approved Features

Subheadline

Lorem ipsum dolor sit amet, consectetur adipisicing elit quagrat eos words and phrases.

Show row weights

FEATURES

✚ Marketing Site Feature

Remove

Icon Class

fa-snowflake-o

Title

Special Snowflake

Description

Lorem ipsum dolor sit amet, consectetur adipisicing elit.

Add Marketing Site Feature

CAN RENDER PATTERNS IN YOUR PATTERN PREVIEW

```
features:
  type: pattern
  label: Features
  description: One or more features patterns to be included in grid.
  preview:
    - type: pattern
      id: marketing_site_feature
      fields:
        icon_class: fa-snowflake-o
        title: Special Snowflake
        description: Lorem ipsum dolor sit amet, consectetur adipisicing elit.
    - type: pattern
      id: marketing_site_feature
      fields:
        icon_class: fa-angellist
        title: Friendly Forms
        description: Lorem ipsum dolor sit amet, consectetur adipisicing elit.
```

VARIANTS

marketing_site_content_section:

label: Marketing Site Content Section

description: A responsive content section that features equal height images and content

variants:

default:

label: Default

description: Default Marketing Site Content Section.

highlighted:

label: Highlighted

description: Differently styled marketing site content section.

```
<div class="marketing-site-content-section {{ variant }}">
  <div class="marketing-site-content-section-img">
    {{ image }}
  </div>
  <div class="marketing-site-content-section-block">
    <h3 class="marketing-site-content-section-block-header">{{ header }}</h3>
    <p class="marketing-site-content-section-block-subheader subheader">{{ subheader }}</p>
    {{ button }}
  </div>
</div>
```

VARIANTS

▼ LAYOUT SETTINGS

Select a layout

Marketing Site Content Section ▼

▼ PATTERN SETTINGS

Field templates

Only content ▼

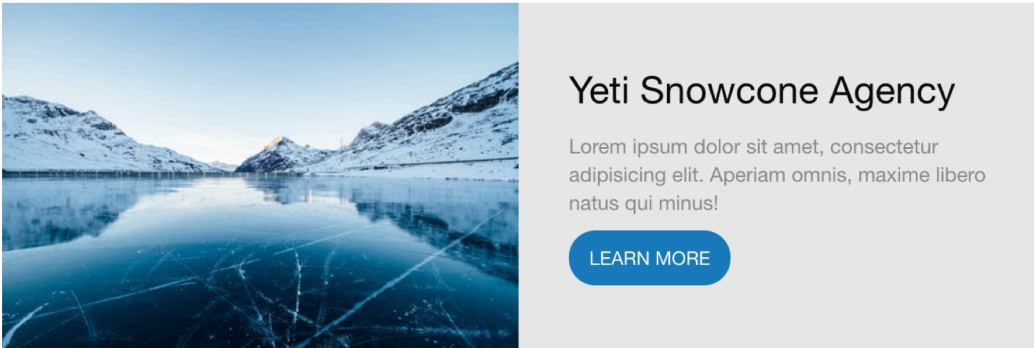
Default: use field templates to wrap field content.

Only content: only print field content, without field wrapping or label.

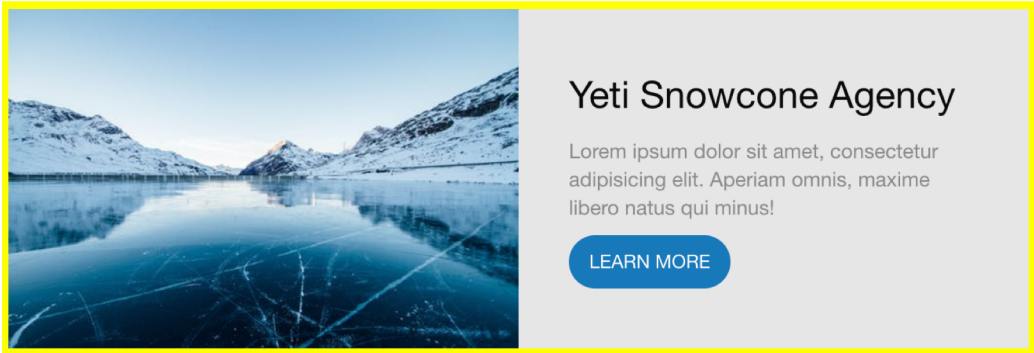
Variant

Highlighted ▼

Variant	Name	Description
Default	default	Default Marketing Site Content Section.



Variant	Name	Description
Highlighted	highlighted	Differently styled marketing site content section.



[View Marketing Site Content Section as stand-alone](#)

VARIANTS

Also, twig variables may be enough in some cases...

```
<div class="small-12 medium-3 columns">
  <i class="fa {{ icon_class }}" aria-hidden="true"></i>
  <h4 class="marketing-site-features-title">{{ title }}</h4>
  <p class="marketing-site-features-desc">{{ description }}</p>
</div>
```

Workflow

UI PATTERNS WITH AN EXTERNAL PATTERN LIBRARY

- Components begin life in Pattern Lab
 - Developing components that don't yet exist
 - Smaller sub-components
 - Larger scale prototyping
- Components 'graduate' to a UI Pattern in Drupal
 - Documented both in code and in pattern library
 - Predictable re-use anywhere a UI Pattern can be rendered

INTEGRATING WITH UI PATTERNS

- Many possible options:
 - The UI / various integration modules.
 - Programmatically
 - Twig functions
- **Pick an approach, stick to it. Document it.**

UI Patterns in a Contributed Theme

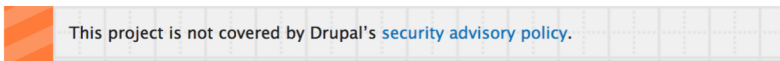
FOUNDATION PATTERNS THEME

Exposes foundation building blocks – not opinionated about how they are used

Foundation Patterns

[View](#) [Version control](#)

Posted by [brianperry](#) on 2 April 2017, updated 30 September 2017



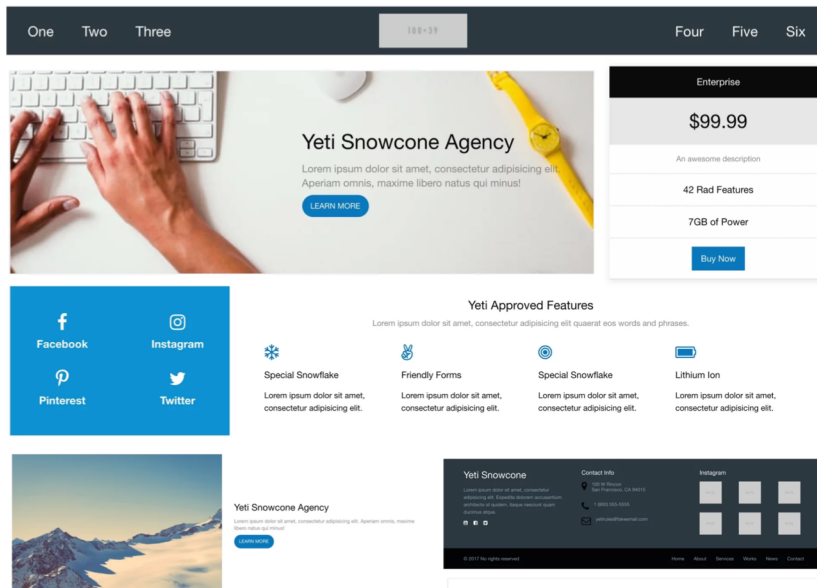
The Foundation Patterns theme is a subtheme of [Zurb Foundation](#) intended to implement Foundation components using [UI Patterns](#). The primary purpose of this theme is to provide a way to quickly build sites using common building blocks from the [Foundation framework](#), starting with the [marketing building block kit](#). Secondly, it is also intended to provide examples of how to take advantage of patterns defined by the [UI Patterns module](#) in a Drupal theme. Support for Pattern Libraries including [Pattern Lab](#) will also be provided.

Dependencies

- [Zurb Foundation](#)
- [UI Patterns](#) currently developing based on 8.x-1.x-dev
- [Component Libraries](#)

Installation

MARKETING



FOUNDATION PATTERNS CONFIGURATION MODULE

Pre-packaged paragraph types to jump start the use of the theme

Foundation Patterns Configuration

[View](#) [Version control](#) [Automated testing](#)

Posted by [brianperry](#) on 29 April 2017, updated 30 September 2017



Pre-packaged configuration to jump start the use of the [Foundation Patterns](#) theme.

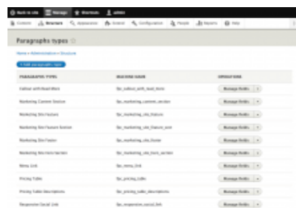
Dependencies

To use this module, the [Foundation Patterns](#) theme must be enabled.

Installation

For common building blocks shared by the various Foundation Building Block Kits, enable the Foundation Patterns Configuration module.

For components included in the [Marketing Building Block Kit](#), enable the Foundation Patterns Configuration Marketing module (Foundation Patterns Configuration will also be enabled as a dependency.)



Paragraphs types ☆		
Home » Administration » Structure		
+ Add paragraphs type		
PARAGRAPHS TYPES	MACHINE NAME	OPERATIONS
Callout with Read More	fpc_callout_with_read_more	Manage fields ▾
Marketing Content Section	fpc_marketing_content_section	Manage fields ▾
Marketing Site Feature	fpc_marketing_site_feature	Manage fields ▾
Marketing Site Feature Section	fpc_marketing_site_feature_sect	Manage fields ▾
Marketing Site Footer	fpc_marketing_site_footer	Manage fields ▾
Marketing Site Hero Section	fpc_marketing_site_hero_section	Manage fields ▾
Menu Link	fpc_menu_link	Manage fields ▾
Pricing Table	fpc_pricing_table	Manage fields ▾
Pricing Table Descriptions	fpc_pricing_table_descriptions	Manage fields ▾
Responsive Social Link	fpc_responsive_social_link	Manage fields ▾

Automatic Pattern Library Component Discovery

UI PATTERNS PATTERN LAB / UI PATTERNS FRACTAL

Automatically create UI Patterns from your pattern library... really.

UI Patterns Pattern Lab

[View](#) [Version control](#) [Automated testing](#)

Posted by [brianperry](#) on 1 May 2018, updated 7 May 2018

This project is not covered by Drupal's [security advisory policy](#).

The UI Patterns Pattern Lab module automatically discovers patterns defined in a Pattern Lab instance and makes them available to be used in Drupal as [UI Patterns](#).

This module will recognize Pattern Lab patterns in any active module or theme's /templates directory, along with any paths defined as Twig Namespaces in your theme by the [Component Libraries](#) module. After enabling this module (which will also enable the dependencies `ui_patterns` and `ui_patterns_library`) and clearing your cache, patterns should be visible at `/patterns` and available to use with any of the UI Patterns integration modules.

This project would not exist without the work of [Antonio De Marco](#) who maintains the [UI Patterns](#) module and [Pierre Dureau](#) who created the [UI Patterns Fractal integration](#) that this project is based on.



UI Patterns + Fractal

[View](#) [Version control](#) [Automated testing](#)

Posted by [tonystar](#) on 16 January 2018, updated 11 May 2018

This project is not covered by Drupal's [security advisory policy](#).

Integration of Fractal patterns as UI Patterns plug ins.

Fractal is a tool to help you build and document web component libraries, and then integrate them into your projects. <https://fractal.build/>

UI Patterns defines and exposes self-contained UI patterns as Drupal plugins and generates a pattern library page to be used as documentation. https://www.drupal.org/project/ui_patterns

You may also be interested about a Pattern Lab integration: https://www.drupal.org/project/ui_patterns_pattern_lab

Supporting organizations:
[WONDROUS](#)

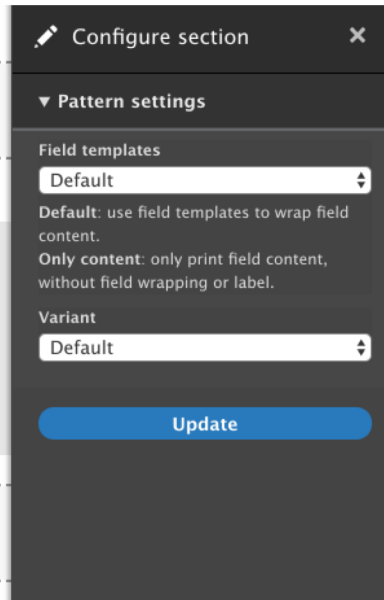
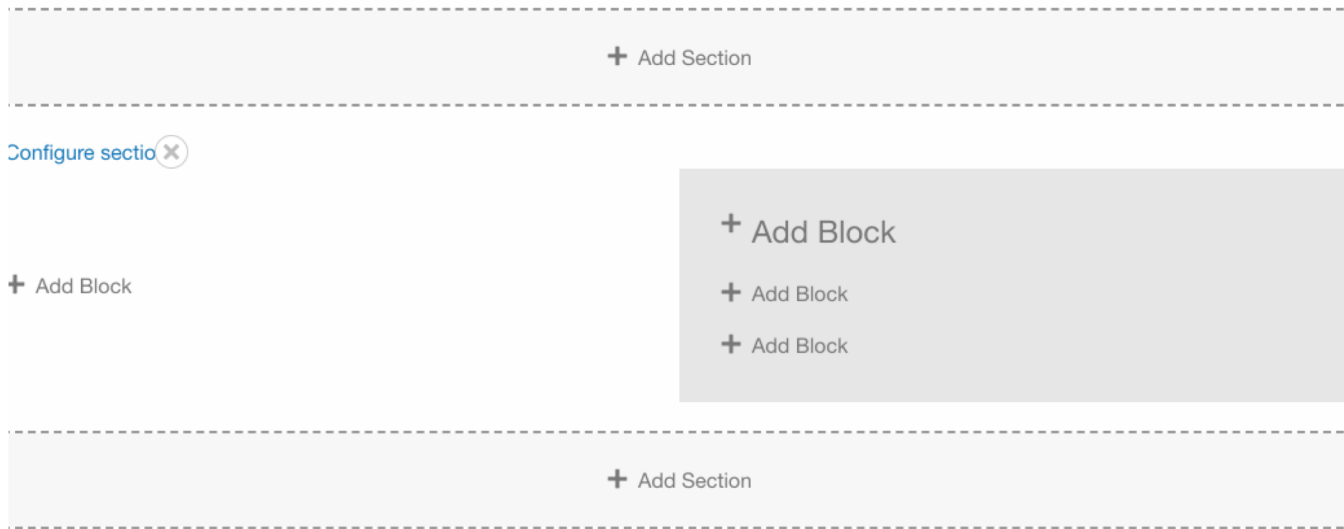


UI Patterns and Layout Builder

UI PATTERNS AND LAYOUT BUILDER

https://github.com/nuvoleweb/ui_patterns/pull/201

To manage other areas of the page, use the [block administration page](#).



Layouts for page template, UI Patterns for components?

Resources

RESOURCES

- UI Patterns - [Project Page](#)
 - Links to [documentation](#) and [github repo / issue queue](#).
- #ui_patterns on [DrupalTwig Slack](#)
- UI Patterns [Talk at DrupalCon Vienna](#)
- Foundation Patterns – [Project Page](#)
 - [Github repo](#) / [developer sandbox](#)
- UI Patterns Pattern Lab – [Project Page](#)
 - [Documentation guide](#)
- UI Patterns Fractal - [Project Page](#)



QUESTIONS?

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