

ROCKIN' RESPONSIVE CONTENT with Panels Layouts!

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Content & Responsive Design

Responsive design is an approach that aims to provide an optimal user experience across all devices.

- Mobile first strategy
- Flush out page structure as device width increases
- Layout and design fit across all devices

Responsive design does not always mean **Responsive Content**.

- Responsive design does not always consider context of use.
- Focus often put on theme appearance versus content distribution.

Defining Your Content

Static Content

- Branding data
- Main menu
- User menus
- Footer links
- Copyright

Dynamic content

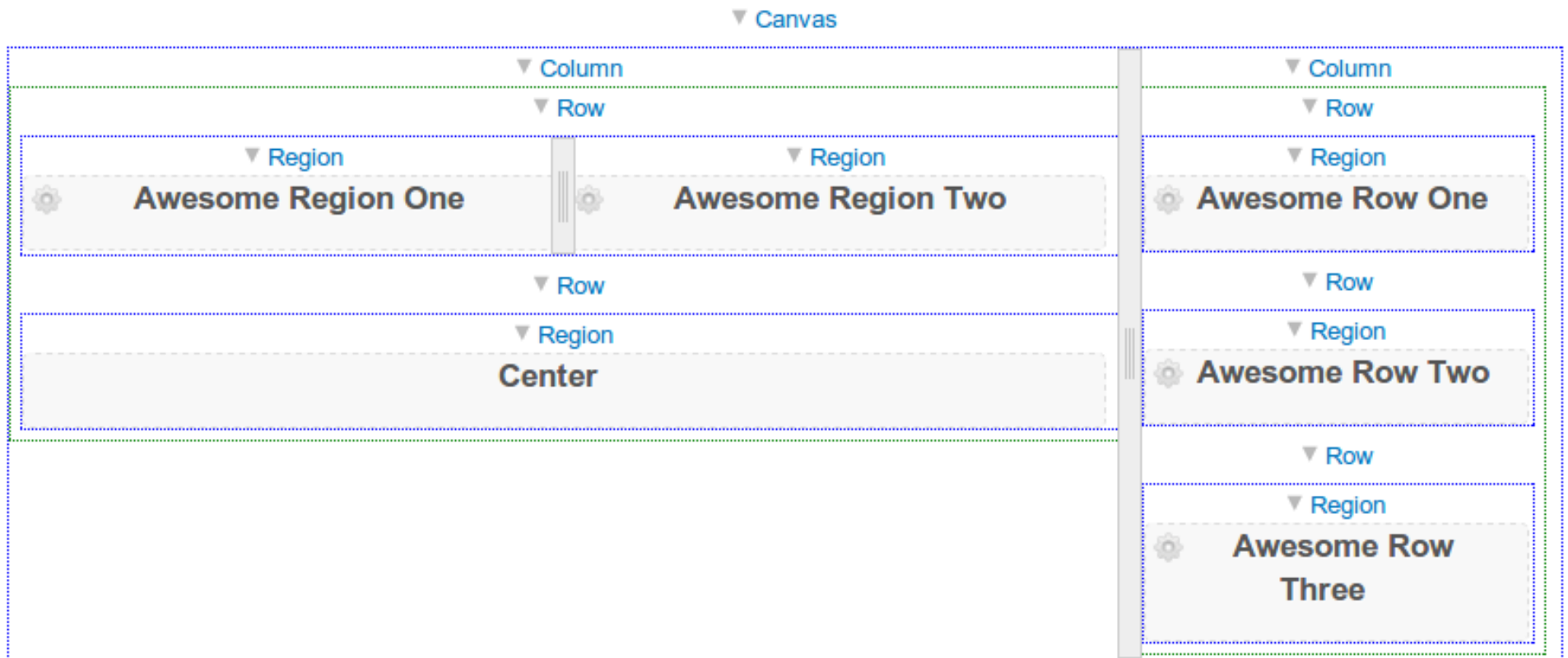
- Main content
- Sidebars
- Specialty menus
- User specific

Harnessing Panels

- Use panels for dynamic content
- Utilize custom panel layouts for unique experiences
- Greater control of content and its placement



The Layout Builder



- WYSIWYG Editor -
- Easily build layouts on the fly -
- Shows the full power of layouts -

Making Content Awesome

AWESOME EXAMPLE

The Empire Strikes Back

In my experience, there is no such thing as luck. What!? You don't believe in the Force, do you? You don't believe in the Force, do you?

The Battle for Endor

The Force is strong with this one. I have you now. You mean it controls your actions? I'm surprised you had the courage to take the responsibility yourself. The Force is strong with this one. I have you now.

Your eyes can deceive you. Don't trust them.

Don't underestimate the Force.

What good is a reward if you ain't around to use it?

Besides, attacking that battle station ain't my idea of courage. It's more like...suicide.

Look, I can take you as far as Anchorhead. You can get a transport there to Mos Eisley or wherever you're going. I have traced the Rebel spies to her. Now she is my only link to finding their secret base.



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DEFAULT SHORTCUTS

- [Add content](#)
- [Find content](#)

Revenge of the Sith

I'm trying not to, kid. Hokey religions and ancient weapons are no match for a good blaster at your side, kid. What good is a reward if you ain't around to use it? Besides, attacking that battle station ain't my idea of courage. It's more like... suicide. All right. Well, take care of yourself, Han. I guess that's what you're best at, ain't it?

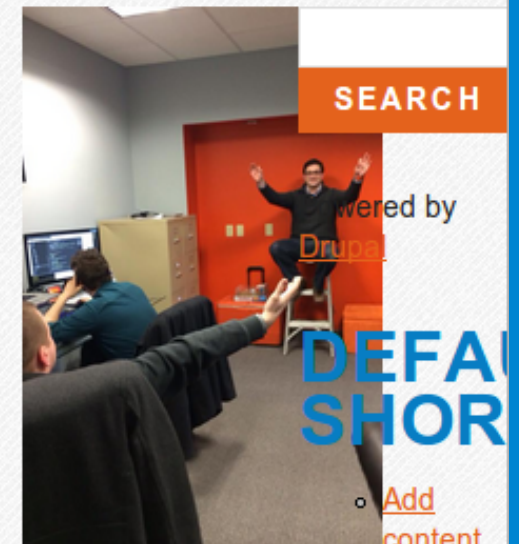
But not for all devices

- Layout builder isn't responsive
- Uses hard set percentage points
- Control to build layout, but not control of responsive display.

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DEFAL
SHOR

- [Add content](#)
- [Find content](#)

Revenge of the Sith
I'm trying not to...

Solution: Custom Panel Layouts

- Full control of layout structure.
- Ability to define column widths
- Implementation of breakpoints
- Control of how the content reacts per breakpoints.

Home

TEST!

Bacon ipsum dolor sit amet chuck brisket prosciutto shoulder. Meatloaf frankfurter strip steak ball tip, hamburger pork rump pancetta beef turducken pork loin spare ribs drumstick pork chop. Ball tip prosciutto boudin shank ham, filet mignon tri-tip doner bresaola beef venison brisket corned beef. Spare ribs porchetta turkey drumstick pork loin jerky ribeye turducken tail landjaeger tongue strip steak. Kevin drumstick capicola, rump pancetta leberkas bacon beef ribs. Jerky pork belly sausage venison capicola ribeye filet mignon brisket strip steak meatball flank corned beef tail. Drumstick tenderloin ribeye shoulder turkey prosciutto.

Meatloaf doner kevin hamburger, tongue brisket ham ground round cow pancetta pork loin pork fatback jowl pig. Pancetta kielbasa ball tip sausage, spare ribs venison beef ribs swine. Capicola fatback doner bresaola, pancetta strip steak beef ribs biltong tongue tenderloin jowl boudin venison cow. Short ribs andouille ham beef spare ribs meatloaf chuck fatback ball tip jerky ham hock. Meatloaf shank short loin shoulder, ground round rump chuck t-bone cow kielbasa tail prosciutto.

0 0 0

Bacon ipsum dolor sit amet kevin meatball pig corned beef filet mignon jerky fatback andouille bresaola chuck sausage spare ribs short ribs chicken. Sirloin landjaeger jerky, ham tri-tip tongue ball tip beef rump. Kevin pork belly drumstick beef, meatloaf tongue short loin ground round frankfurter capicola swine shoulder pork sirloin pastrami. Drumstick short ribs boudin chuck t-bone andouille turkey turducken fatback frankfurter pork spare ribs ham ball tip sirloin. Leberkas cow meatloaf pastrami short ribs, boudin corned beef, Salami chicken rump andouille.

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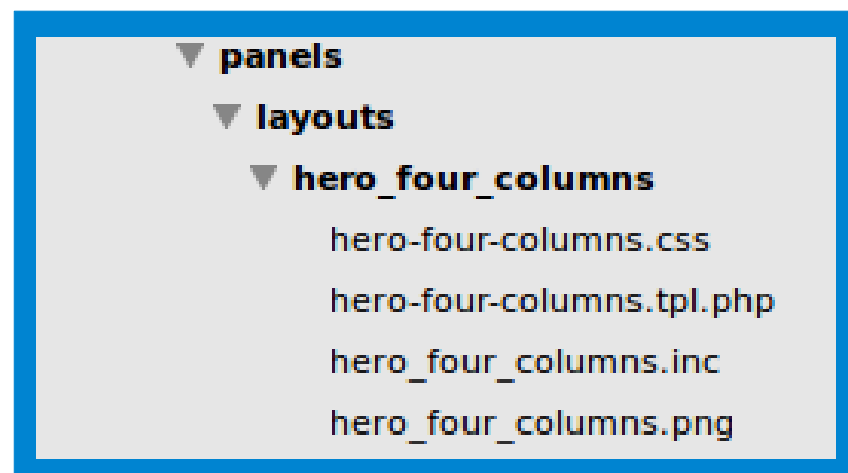
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Creating a Panels Layout

- Created in theme or module
- Uses four files
 - CSS file
 - Template file
 - Include file
 - Icon file
- Initiated through CTools plugin API
- Include file contains the plugin array, and any template functions.
- `template_preprocess_name()` allows for template manipulation.



Note: Review the layouts folder within the Panels module for examples

Layout Configuration Example

```
// Plugin definition
$plugin = array(
  'title' => t('Hero, 4 columns'),
  'icon' => 'hero_four_columns.png',
  'category' => 'Responsive Layouts',
  'theme' => 'hero_four_columns',
  'css' => 'hero-four-columns.css',
  'regions' => array(
    'hero' => t('Hero'),
    'column_one' => t('Column 1'),
    'column_two' => t('Column 2'),
    'column_three' => t('Column 3'),
    'column_four' => t('Column 4'),
  ),
);
```

What's going on here?

- Defines the title
- Icon location
- Category
- The theme used
- CSS file name
- Array of regions

[Drupal.org Documentation](https://drupal.org/node/495654)

<https://drupal.org/node/495654>

hook_template_preprocess().

Utilize template hook to add CSS classes to regions

Provides means of handling missing dynamic content

```
// Sets the Panel layout classes.
$variables['attributes_array']['class'][] = 'panel-display';
$variables['attributes_array']['class'][] = 'panel-display-hero-four-column';

foreach($variables['content'] as $name => $item) {
  $variables['region_attributes_array'][$name]['class'][] = 'panel-region';
  $variables...['class'][] = 'panel-region--'.drupal_clean_css_identifier($name);
}
```

Layout Template Example

```
<div<?php print $attributes ?>>
  <div<?php print drupal_attributes($wrapper_attributes_array)?>>
    <?php foreach(array_intersect_key($content, $layout['regions']) as $name =>
$item): ?>
      <?php if (!empty($item)): ?>
        <div<?php print drupal_attributes($region_attributes_array[$name])?>>
          <?php print $item ?>
        </div>
      <?php endif; ?>
    <?php endforeach; ?>
  </div>
```

Letting Panels Know About the Layout

Themes - .info file

```
; Plugins
```

```
plugins[panels][layouts] = panels/layouts
```

Modules - .module file

```
/**
```

```
 * Implementation of hook_ctools_plugin_directory()
```

```
 */
```

```
function mymodule_ctools_plugin_directory($module, $plugin) {
```

```
  if ($owner == 'panels') {
```

```
    return "panels/$plugin";
```

```
  }
```

```
}
```

Responsive and Sass-y

- **Singularity** is a flexible, and simple, grid framework for handling responsive structure.
- **Breakpoint** for controlling your making breakpoints simple.
- **Compass** to bring it all together. Plan ahead for `config.rb` management.

Singularity & Breakpoint

- Singularity grids are defined simply as variables.
- Allows you to define number of grids at different *min-width*
- Breakpoint allows you to target your media queries
- Inside breakpoints items can be assigned grid widths.

```
// Singularity grid configuration
$grids: 4;

$grids: add-grid(12 at $tab);

$gutters: 1/3;

// Breakpoint & grid implementation

@include breakpoint($tab, true) {
  .panel-display {
    .panels-regions__two {
      @include layout(4) {
        .panels-region {
          @include float-span(2);
        }
      }
    }
  }
}
```

Resources & Links

Creating a custom Panels layout

<https://drupal.org/node/495654>

Singularity documentation

<https://github.com/Team-Sass/Singularity/wiki>

Responsive Panels layout referenced in slides

https://github.com/mglaman/responsive_panels_layouts

Radix, responsive Panels layouts module

https://drupal.org/project/radix_layouts