Drupal 8 Theming

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Code:

github.com/zakiya/d8-theming-camp-demo

Questions?

D7 < D8 Small Core Changes

- Views, Admin Menu, Breakpoints, Date, Entity
 Reference, Link, CKeditor, Migrate, Block Menus (light),
 Responsive Image, multilingual support, and fieldable
 blocks all in core
- Backbone.js, Underscore.js, and Modernizr are in core
- No JQuery or CSS loads by default.

D7 < D8 Big Core Changes

- Configuration Management
- Using Twig templating engine
- No more IE 6, 7, and 8 support

D7 < D8 Gotchas

- drush cr not drush cc all
- /themes instead of /sites/all/themes
- /modules instead of sites/all/modules

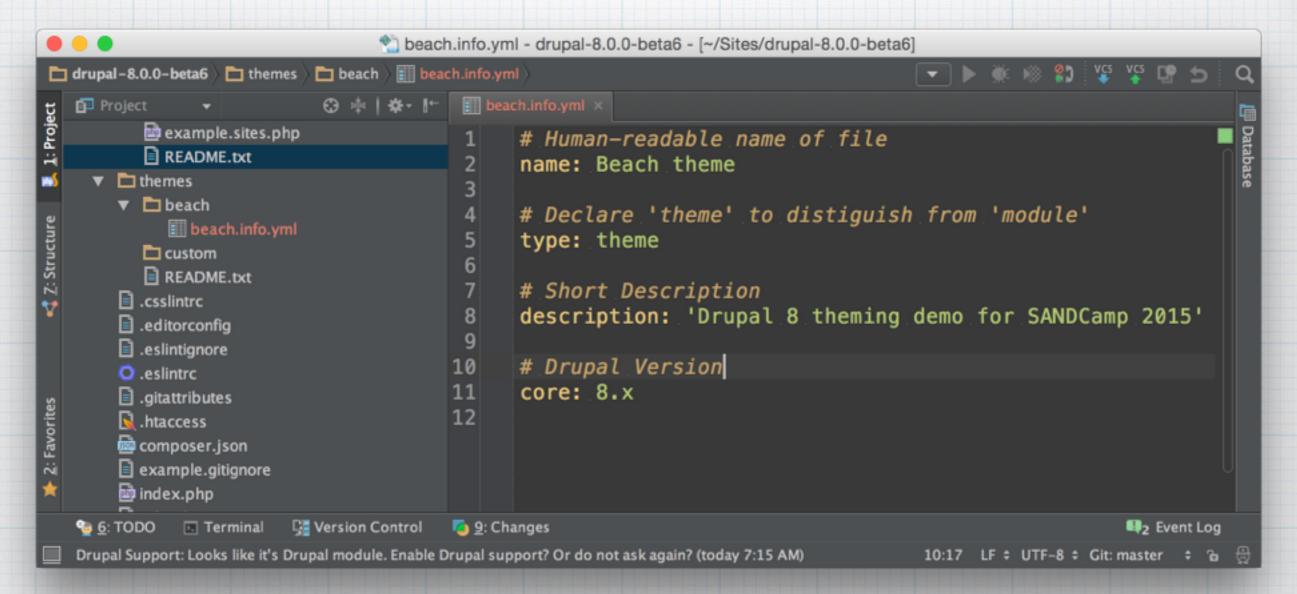
Local Dev Setup Get your Drupal

- Find latest dev or beta on d.o
- drupal.org/node/3060/release
- Download and install on your favorite _AMP stack

Local Dev Setup Performance Settings

- By default css, js and html are cached
- Disable caching through UI at /config/development/ performance
- Or
- Copy <u>sites/example.settings.local.php</u> to settings.local.php
 - See <u>/sites/example.settings.local.php</u>)
 - Uncomment these lines in /default/settings.php:
 if (file_exists(__DIR__ . 'settings.local.php'))
 { include __DIR__ . '/settings.local.php'; }
 - drush cr when done!

THEME.info.yml



Basic Declarations

Logo

- If logo is called <u>logo.svg</u> and put in root folder Drupal will autodetect
- logo.png or logo.gif can be added via Drupal UI

Screenshot

- screenshot.png placed in root will be auto-detected
- or declare in <u>THEME.info.yml</u>

```
beach.info.yml - drupal-8.0.0-beta6 - [~/Sites/drupal-8.0.0-beta6]
drupal-8.0.0-beta6 themes beach beach beach.info.yml

    ⊕ | ♣ - | □ | beach.info.yml × □ logo.svg ×

                                             # Declare 'theme' to distiguish from 'module'
      ▶ □ default
         development.services.yml
                                           type: theme
         example.settings.local.php
         a example.sites.php
                                          # Short Description
                                           description: 'Drupal 8 theming demo for SANDCamp 2015'
                                           # Drupal Version
                                       11 core: 8.x
            beach.info.yml
                                           # Path to screenshot
           logo.svg
                                          screenshot: images/screenshot.png
        README.txt
   🐚 6: TODO 🔳 Terminal 🔛 Version Control 🍊 9: Changes
                                                                                                        12 Event Log
  No occurrences found
                                                                                    14:20 LF : UTF-8 : Git: master : %
```

Declare Base Theme

base theme: classy

Theme Features

Home » Administration » Appearance » Settings

These options control the display settings for the *Beach theme* theme. Whetheme, these settings will be used.

▼ TOGGLE DISPLAY

Enable or disable the display of certain page elements.

- Logo
- Site name
- Site slogan
- User pictures in posts
- User pictures in comments
- User verification status in con
- Shortcut icon

```
beach.info.yml - drupal-8.0.0-beta6 - [~/Sites/drupal-8.0.0-beta6]
drupal-8.0.0-beta6 themes beach beach beach.info.yml
                         14 screensnot: images/screensnot.png
    ▼ 🗀 sites
      ▶ 1 d8.dd
                                      16
                                            # Features
      ▶ □ default
        development.services.yml
                                          features:
        example.settings.local.php
                                             - logo
        example.sites.php
                                      19
                                              - name
        README.txt
                                      20
                                              - slogan
                                      21
                                              - node_user_picture
      ▼ beach
                                      22
                                              .- comment_user_picture
                                      23
                                               comment_user_verification
             screenshot.png
                                      24 - favicon
           m beach.info.yml
          logo.svg
        custom :
        README.txt
      csslintrc .
  😘 6: TODO 🔳 Terminal 🔼 9: Changes
  Drupal Support: Looks like it's Drupal module. Enable Drupal support? Or do not ask again? (yesterday 4:05 PM)
                                                                                  25:1 LF = UTF-8 = Git: master = %
```

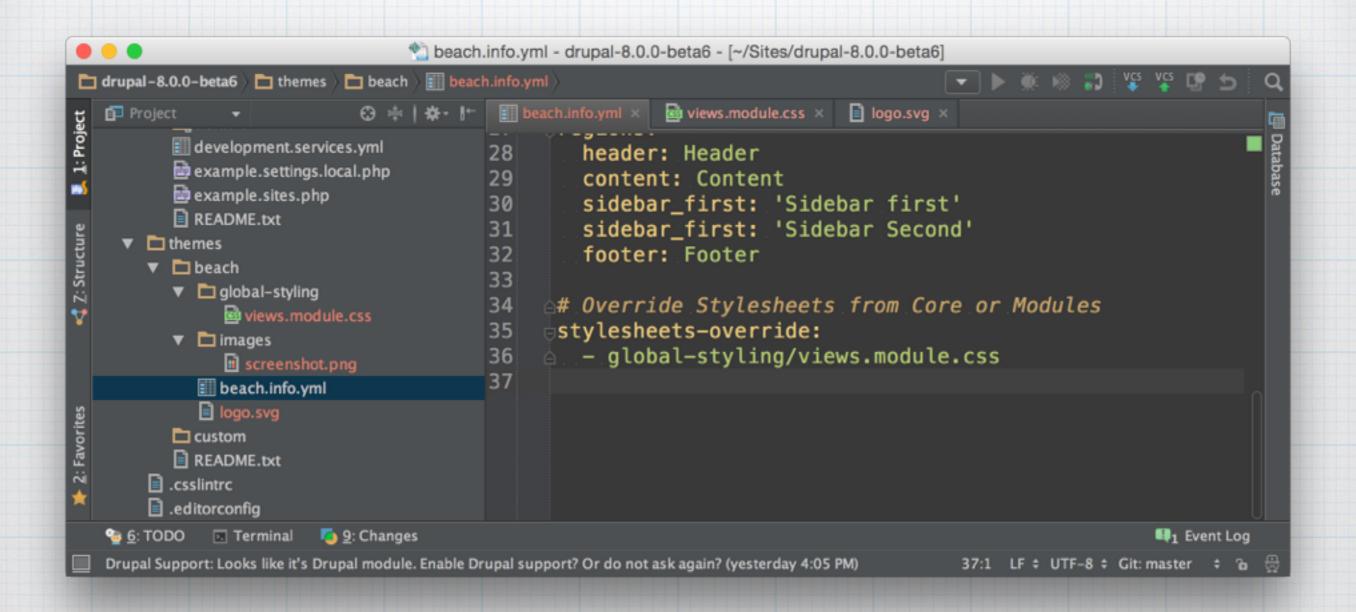
Regions

- Theme will work with no regions
- Declare regions in THEME.info.yml

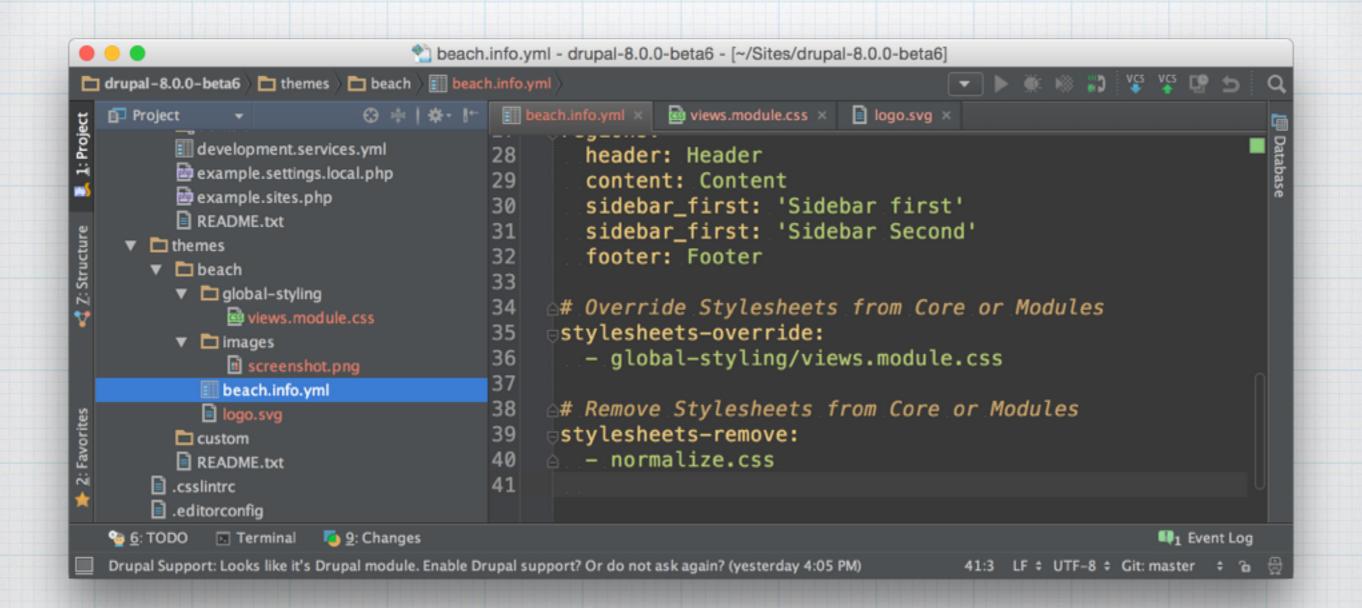
```
beach.info.yml - drupal-8.0.0-beta6 - [~/Sites/drupal-8.0.0-beta6]
                                                                                      ▼ ▶ ₩ 🕸 🖏
☐ drupal – 8.0.0 – beta6  ☐ themes  ☐ beach  ☐ beach info.yml
                                       beach.info.yml ×

    ■ views.module.css ×
                                                                           logo.svg ×
  Project
          development.services.yml
                                              # Regions
                                        26
         example.settings.local.php
         example.sites.php
                                        27
                                              ⊨regions:
         README.txt
                                        28
                                                 header: Header
    ▼ □ themes
                                        29
                                                 content: Content
       ▼ □ beach
                                                 sidebar_first: 'Sidebar first'
                                        30
         ▼ □ global-styling
                                                 sidebar_first: 'Sidebar Second'
                                        31
              views.module.css
                                                 footer: Footer
         ▼ images
                                        33
              screenshot.png
                                        34
                                              # Override Stylesheets from Core or Modules
           beach.info.yml
                                        35
                                              stylesheets-override:
            logo.svg
                                        36
                                                 - global-styling/views.module.css
         custom
```

Modify Core/Module CSS



Remove Core/Module CSS



Adding Stylesheets

Adding Libraries

drupal.org/developing/api/8/assets

module



Edit Revisions

Last updated December 18, 2014. Created on May 27, 2014. Edited by Wim Leers, nod_, dstorozhuk. You can edit this page, too.

In Drupal 8, stylesheets (CSS) and JavaScript (JS) are loaded through the same system for modules (code) and themes, for everything: asset libraries. Asset libraries can contain one or more CSS assets, one or more JS assets and one or more JS settings.

Drupal uses a high-level principle: assets (CSS or JS) are still only loaded if you tell Drupal it should load them. Drupal does not load all assets (CSS/JS) on all pages, because this is bad for front-end performance.

Differences compares to Drupal 7

There is one important difference compared to Drupal 7 for developers:

1 Only the lavaScript required on a particular page will be added to that page. In particular, by default Drupal

Declare Library

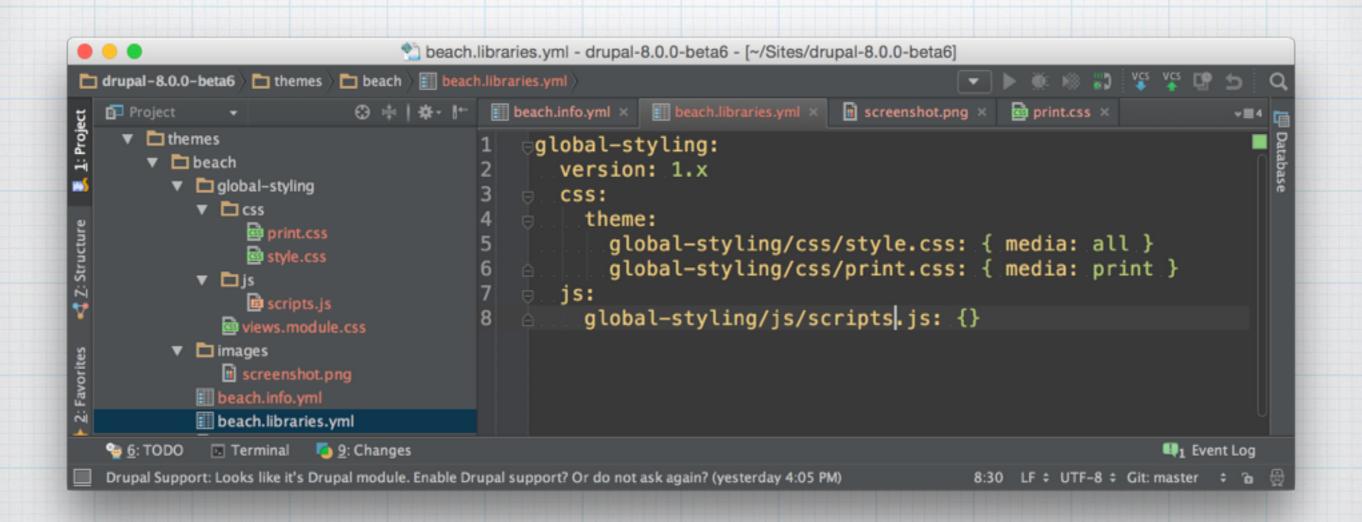
Edit <u>THEME.info.yml</u>

```
🐑 beach.info.yml - drupal-8.0.0-beta6 - [~/Sites/drupal-8.0.0-beta6]
drupal-8.0.0-beta6 ) themes ) beach ) beach.info.yml
  Project
                                             beach.info.yml ×
                                                                m beach.libraries.yml ×
                                                                                     screenshot.png ×
            ▼ 🗀 css
                  print.css
                                                   # Remove Stylesheets from Core or Modules
                  style.css
                                                   bstylesheets-remove:
            ▼ 🗀 js
                                                       - normalize.css
                  scripts.is
               wiews.module.css
                                             42 \( \alpha \)# Define Librar(ies)
          ▼ 🗀 images
                                                 ⇔libraries:
               screenshot.png
                                                  ___beach/global-styling
            m beach.info.yml
            beach.libraries.yml
            logo.svg
          custom :
          README.txt
   😘 6: TODO

    ▼ Terminal

                          9: Changes
                                                                                                                          1 Event Log
   Drupal Support: Looks like it's Drupal module. Enable Drupal support? Or do not ask again? (yesterday 4:05 PM)
                                                                                                   42:21 LF = UTF-8 = Git: master = 6
```

Add CSS and JS



Optionally Include JQuery

```
beach.libraries.yml - drupal-8.0.0-beta6 - [~/Sites/drupal-8.0.0-beta6]
🗖 drupal-8.0.0-beta6 🕽 🗖 themes 🗦 🗖 beach 🕽 🔣 beach.libraries.yml 🗦
                        Project
1: Project
                                             global-styling/css/print.css: { med∎
         development.services.yml
                                    🕁 . js:
         example.settings.local.php
                                          global-styling/js/scripts.js: {}
         example.sites.php
         README.txt
                                        dependencies:
                               10
      themes
                               11
                                          - core/jquery
         beach
                               12
            global-styling
            images
   % <u>6</u>: TODO
                       📜 Version Control
                                       9: Changes
                                                                               ■1 Event Log

    Terminal

   No occurrences found
                                                                 LF 

Git: master
```

Other Ways to include assets

To versioning existing libraries:

```
hook_library_info_alter()
See: api.drupal.org
```

To add assets conditionally:

```
hook_preprocess_page(&$vars) {
   $vars['#attached']['library'][] = 'core/modernizr';
}
```

• OR

```
hook_page_attachments_alter(&$page) {
  if ($conditions) {
    $page['#attached']['library'][] = 'core/jquery';
}
```

See: drupal.org/theme-guide/8/assets

Twig
Time

Why Twig

- Secure
- Separate business logic from display
- Faster, smarter templating engine
- Supported/used beyond Drupal

Twig Debug

Change twig.config: debug: true in services.yml

```
. . .
                               📩 default/services.yml - drupal-8.0.0-beta6 - [~/Sites/drupal-8.0.0-beta6]
 ☐ drupal-8.0.0-beta6 ☐ sites ☐ default ☐ services.yml
                            ⊕ 🛊 | 🌣 - 🍱 beach.info.yml ×
                                                          example.settings.local.php × services.yml ×
    drupal-8.0.0-beta6 (~/Sites/drupal-8.0.0-bi55
                                                    # Not recommended in production environments
     ▶ ☐ modules
                                         57
                                                     # @default false
     profiles
                                                     debug: true
     ▼ 🗀 sites
                                                    # Twig auto-reload:
       ▶ □ d8.dd
                                                                                          ▼ <body class="path-_">
       ▼ □ default
                                         61
                                                    # Automatically recompile Twi
                                                                                              <a href="#main-content" class="visual
          ▶ ☐ files
                                                     # If you don't provide a valu
                                                                                                      Skip to main content
             default.services.yml
                                         63
                                                    # based on the value of debug
                                                                                                   </a>
             default.settings.php
            services.yml
                                                                                              <!-- THEME DEBUG -->
                                         65
                                                    # Not recommended in product:
            settings.php
                                                                                              <!-- THEME HOOK: 'page' -->
                                                     # @default null
          development.services.yml
                                                                                              <!-- FILE NAME SUGGESTIONS:
                                                    auto_reload: true
                                         67
          example.settings.local.php
                                                                                                  * page--front.html.twig
                                         68
          example.sites.php
                                                     # Twig cache:
                                                                                                  * page--.html.twig
                                         69
          README.txt
                                                                                                  x page.html.twig
   😘 <u>6</u>: TODO 🔳 Terminal 🝊 <u>9</u>: Changes
                                                                                              <!-- BEGIN OUTPUT from 'core/modules/
   Unregistered Vcs root detected: The directory /Users/zakiya/Sites/drupal-8.0.0-beta6/themes/beach ... (today 11:57 AM) 66
                                                                                            ▶ <div class="layout-container">...</div:</p>
```

Twig Templates

- 141 Twig templates*
- To override, place in *.html.twig in theme folder
- Don't forget to drush cr

```
page/page.html.twig - drupal=8.0.0-beta6 | templates | page | page.html.twig | page.html.tw
```

Twig Code Basics

• To print
{{my_variable}}

To comment{# Drupaling b. #}

• To operate
{% if title %} ...

Twig Code Extras

Translate function (filter)

```
{{ 'Home' t }}
```

Check_plain

```
{{ title | striptags }}
```

- See others at
 - undpaul.de/en/blog/2013/02/26/
 theming-drupal-8-twig-part-2
 - drupal.org/node/1918824

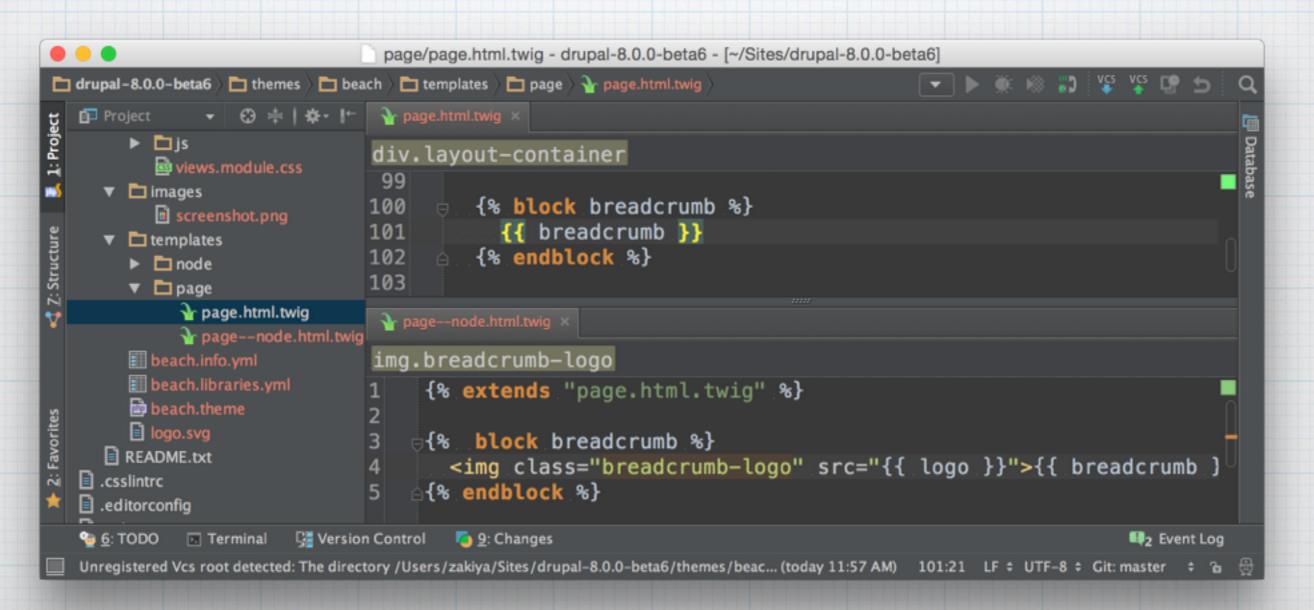
Twig Code Extras Reuse Templates

```
page/node.html.twig - drupal-8.0.0-beta6 - [~/Sites/drupal-8.0.0-beta6]
example.settings.local.php × 📳 services.yml × 🦫 page.html.twig ×

▼ □ ⊕ □ ⊕ · I*

  Project
                                                                                   node.html.twig ×
        ▼ □ global-styling
           ► □ css
                                div class="{{ icon }}">
           ▶ 🗀 is
                                       {% include 'core/modules/node/templates/node.html.twig' %}
             views.module.css
                                  </div>
        ▶ images
        ▼ 🖿 templates
           ▼ 🗀 page
               node.html.twig
               apage.html.twig
           iii beach.info.yml
           m beach.libraries.yml
           logo.svg
         README.txt
      csslintrc .
      ditorconfig
      eslintignore
```

Twig Code Extras Twig Blocks



Twig Preprocess

THEME.theme replaces template.php

```
page/page.html.twig - drupal-8.0.0-beta6 - [~/Sites/drupal-8.0.0-beta6]
   ☐ drupal -8.0.0-beta6 ☐ themes ☐ beach ☐ templates ☐ page ☐ page

→ page.html.twig ×

            Project
                                     images
                                     ▼ templates
                                                                                                                                         - Lo CHATI OI
                                              ▼ 🗀 page
                                                                                                                    146
                                                                                                                                            ^/div>{# /.layout-container #}
                                                                node.html.twig 147
Z: Structure
                                                                page.html.twig 148
                                                                                                                                                {{ legal|t }}
                                              beach.info.yml
                                                                                                                    149
                                              beach.libraries.yml
                                              beach.theme
                                                                                                                       beach.theme ×
                                             logo.svg
                                     README.txt
                                                                                                                     beach_preprocess_page(&variables):void
                            csslintrc .
                                                                                                                                       <?
                            editorconfig
                                                                                                                                 function beach_preprocess_page(&$variables) {
                           eslintignore
                                                                                                                                                 $variables['legal'] = 'Nobody copy me.';
                                                                                                                    3
                            o.eslintrc
                            gitattributes
                            .htaccess
             % 6: TODO ■ Terminal

↓ Version Control

                                                                                                                                                  9: Changes
                                                                                                                                                                                                                                                                                                                                                                                                    Event Log
             Unregistered Vcs root detected: The directory /Users/zakiya/Sites/drupal-8.0.0-beta6/themes/beac... (today 11:57 AM) 149:14 LF 🕏 UTF-8 🕏 Git: master 💢 🔠 😣
```

Twig {{dump}}*

- {{ dump()}}
- {{ dump(my_variable) }}
- drupal.org/node/1906780

*Might get WSOD due to memory issues

Devel + Kint

Twig Documentation

twig.sensiolabs.org/documentation

Responsive

- breakpoints in core
 <u>drupal.org/documentation/modules/</u>
 <u>breakpoint</u>
- THEME.breakpoints.yml
- picture in core

Other things

- Drupal settings for use in js
- Classy module
- Initialize Image Style Settings in theme https://www.drupal.org/ node/2356753
- No HOOK_process

Gimme feedback

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github.com/zakiya/d8-theming-camp-demo