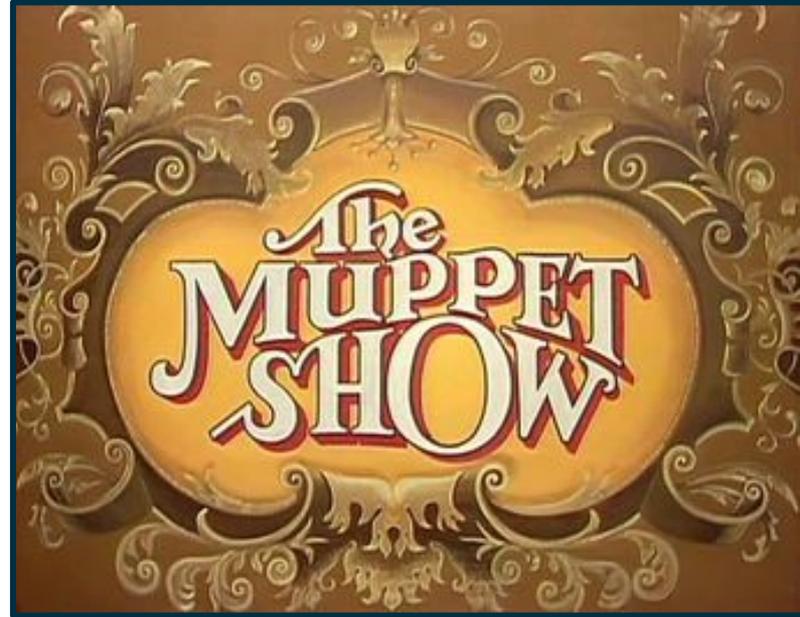

Drupal & USWDS: It's Time to Get Things Started

Why don't we get things started?!

Brian Seek
Dustin Boeger



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- Introductions
- Getting Started
- Colors Fonts & Other Settings
- Custom Styling & Components
- Drupal UI Walkthrough
- Q&A



Introductions

The cast and crew

Disclaimer

- Here there be **Muppets**
- We are not the experts but we are getting there
- There will be some code shown... feel free to nap at that point
- USWDS site is a great resource
- Your Mileage May Vary



Audience

- Experience with USWDS?
 - ◆ V1?
 - ◆ V2?
- Content Creators
- Developers
- Managers



Dustin Boeger

Front End Drupal Developer and Web Swiss Army Knife. Working on USWDS integration plans for DOD.

Skilz

- Drupal
- Graphic / Web Design
- Content Creation
- UI / UX
- HTML
- CSS



Brian Seek

Drupalist for 8 years. Currently using USWDS for Department of Education.

Skilz

- Drupal
- PHP
- SASS
- React
- UX
- Theming



Drupal

Drupal is the open-source CMS that helps you deliver ambitious, elegant, and performant digital experiences at scale

<https://www.drupal.org/>



Skilz

- Open Source CMS
- Security
- Performance & Scaling
- Marketing Automation
- Personalization
- Multi-Lingual

USWDS

A design system for the Federal Government to make it easier to build accessible, mobile-friendly government websites for the American public.

<https://designsystem.digital.gov/>

Skilz

- Components
- Design Tokens
- Utilities
- Page Templates
- Accessibility
- Prototyping



Demo Repository

→ **Follow along**

<https://github.com/CivicActions/uswds-drupal-demo>

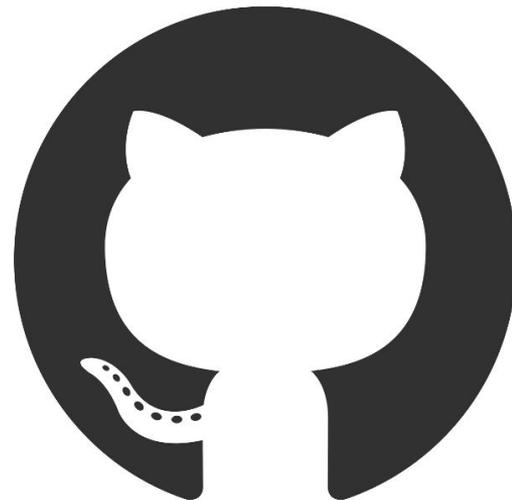
→ **Run a local sandbox**

This project includes a `.lando.yml` file for a local version of Lando. If you use this setup, please use YARN through Lando rather than NPM

→ **Database is included**

You can use the included database in the repo.

With lando run: `lando db-import uswds-demo-db.sql.gz`



Getting Started - AKA the Infrastructure

Take a look behind the curtain.

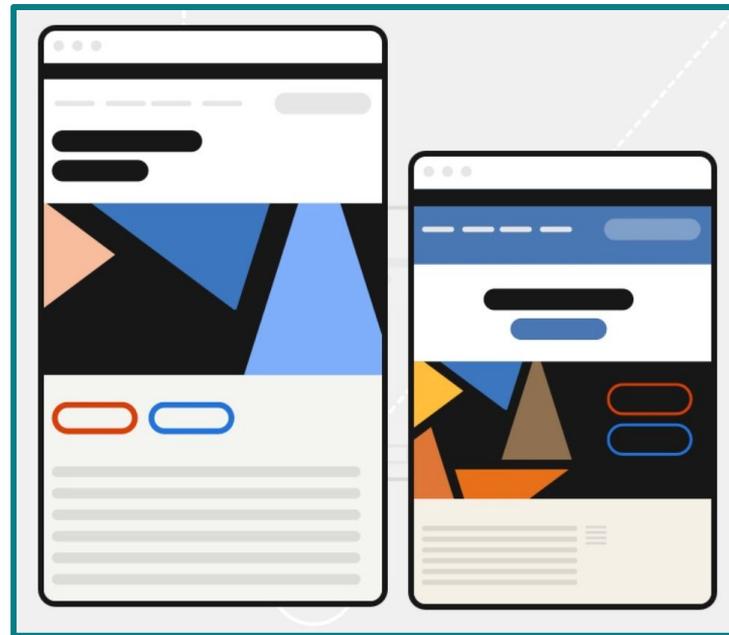
Getting Started

- 1. D.O Theme**
2. Setting up a Gulp Workflow
3. Using USWDS-Gulp



D.O Theme

- This base theme focuses on refining Drupal's markup so that it will work with the USWDS library.
- Theme home: <https://www.drupal.org/project/uswds>
- Created by Brock Fanning and currently Maintained by Iris Ibekwe & Jay Darnell here at CivicActions.
- Issues and patches are much welcome!



Getting Started

1. D.O Theme
2. **Setting up a Gulp Workflow**
3. Using USWDS-Gulp



Setting up a Gulp Workflow

The USWDS Gulp Repo is made for developers new to Gulp or those who just want a simple setup to get started quickly. The repo contains files and instructions for installing Gulp 4.0 in your project, initializing USWDS, and compiling CSS from the source files.

- **Use USWDS-gulp - <https://github.com/uswds/uswds-gulp>**
 - Has a lot of OOTB setup built in
 - Easy to use
 - Easy to maintain and modify
 - Works well in a Drupal sub-theme

Setting up a Gulp Workflow

→ Install USWDS-Gulp in your theme root

◆ From Readme of the USWDS-Gulp project:

```
npm install autoprefixer gulp@^4.0.0 gulp-notify gulp-postcss gulp-replace gulp-sass  
gulp-sourcemaps postcss-cssso sass uswds@latest uswds-gulp@github:uswds/uswds-gulp  
--save-dev
```

```
cp node_modules/uswds-gulp/gulpfile.js .
```

◆ If running in this lando sandbox:

Replace `npm install` with `lando yarn add`

Setting up a Gulp Workflow

- Update gulpfile.js to fit your Drupal theme.
- This copies the images, js, and fonts to /assets to be compatible with the theme.
- Keep sass and css at theme root.
- Run gulp init

```
/*  
-----  
PATHS  
-----  
- All paths are relative to the  
  project root  
- Don't use a trailing `/` for path  
  names  
-----  
*/  
  
// Project Sass source directory  
const PROJECT_SASS_SRC = "./sass";  
  
// Images destination  
const IMG_DEST = "./assets/img";  
  
// Fonts destination  
const FONTS_DEST = "./assets/fonts";  
  
// Javascript destination  
const JS_DEST = "./assets/js";  
  
// Compiled CSS destination  
const CSS_DEST = "./css";  
  
// Site CSS destination  
// Like the _site/assets/css directory in Jekyll, if necessary.  
// If using, uncomment line 106  
const SITE_CSS_DEST = "/css";
```

Setting up a Gulp Workflow

- Update asset paths in USWDS settings
 - ◆ Create a new settings file for your settings.
 - ◆ Images in `_uswds-theme-general.scss`
 - ◆ Fonts in `_uswds-theme-typography.scss`

```
/*  
-----  
Image Path  
-----  
Relative image file path  
-----  
*/  
  
$theme-image-path: "../assets/img";
```

```
/*  
-----  
Font path  
-----  
Relative font file path  
-----  
*/  
  
$theme-font-path: "../assets/fonts";
```

Setting up a Gulp Workflow

- Update library references in Drupal theme.info.yml file.
 - ◆ JS points to assets in sub-theme
 - ◆ CSS is in the root of sub-theme where it is being compiled

```
libraries-override:  
  uswds/uswds:  
    css:  
      theme:  
        assets/css/uswds.css: css/styles.css  
    js:  
      assets/js/uswds.min.js: assets/js/uswds.min.js
```

Getting Started

1. D.O Theme
2. Setting up a Gulp Workflow
- 3. Using USWDS-Gulp**



Using USWDS-Gulp

- Update styles.sass to compile your new settings file and remove others.
- Compile initial style sheet
 - ◆ Run gulp build-sass
- Watch changes
 - ◆ Run gulp watch
- Next steps
 - ◆ Add more custom settings to your new settings file
 - ◆ Add your own sass partials into the mix

Colors, Fonts, and Other Settings

Setting the stage with scenes and props

1. Adjusting colors
2. Changing fonts
3. Component settings



Adjusting Colors

→ USWDS color palette

The USWDS uses a subset of color families and colors each with a grade. The color grades are designed to help select accessible color pairings for acceptable contrast.

→ Finding color pairings

A difference of 40+ in grades results in WCAG 2.0 AA Large Text contrast. 50+ difference results in WCAG 2.0 AA or AAA Large Text. 70+ gets you to WCAG 2.0 AAA. Any color of grade 50 results in Section 508 AA contrast against white (grade 0) or black (grade 100).

Adjusting Colors

- Add your specific color settings to the custom settings file.
- Use this tool to help match colors in USWDS:

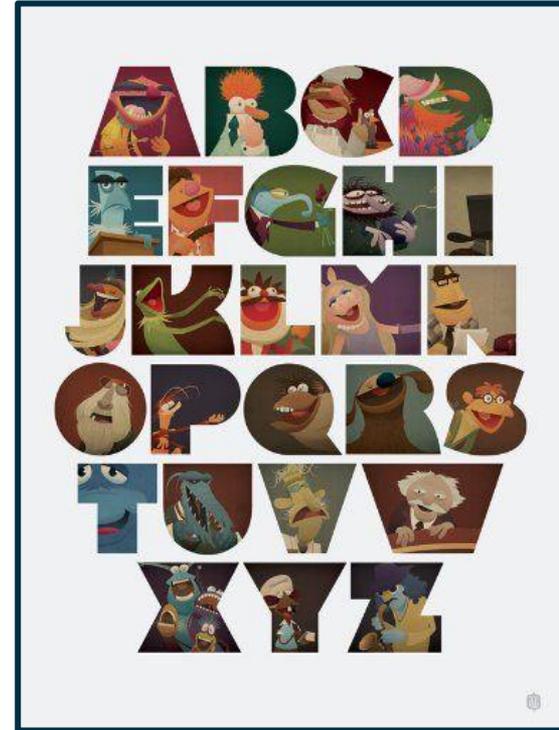
<https://brianseek.github.io/uswds-color-picker/>

```
// Primary colors
$theme-color-primary-family: "blue";
$theme-color-primary-lightest: false;
$theme-color-primary-lighter: "blue-10";
$theme-color-primary-light: "blue-30";
$theme-color-primary: "blue-60v";
$theme-color-primary-vivid: "blue-warm-60v";
$theme-color-primary-dark: "blue-warm-70v";
$theme-color-primary-darker: "blue-warm-80v";
$theme-color-primary-darkest: false;

// Secondary colors
$theme-color-secondary-family: "red";
$theme-color-secondary-lightest: false;
$theme-color-secondary-lighter: "red-cool-10";
$theme-color-secondary-light: "red-30";
$theme-color-secondary: "red-50";
$theme-color-secondary-vivid: "red-cool-50v";
$theme-color-secondary-dark: "red-60v";
$theme-color-secondary-darker: "red-70v";
$theme-color-secondary-darkest: false;
```

Colors, Fonts, and Other Settings

1. Adjusting colors
- 2. Changing fonts**
3. Component settings



Changing Fonts

→ USWDS stock fonts

USWDS comes with packaged with merriweather, open-sans, public-sans, roboto-mono, source-sans-pro.

→ Custom fonts

You can add custom fonts by adding the font files to the font assets directory. Then defining the font in your custom settings file using the example in `_uswds-theme-typography.scss`.

Colors, Fonts, and Other Settings

```
$theme-typeface-tokens: (  
  nunito: (  
    display-name: "Nunito",  
    cap-height: 364px  
  )  
);
```

```
// sans-serif  
$theme-font-type-sans: "nunito";
```

```
$theme-font-sans-custom-stack: "Helvetica Neue", Helvetica, Arial, sans-serif;
```

```
$theme-font-sans-custom-src: (  
  dir: "nunito",  
  roman: (  
    100: false,  
    200: false,  
    300: 'Nunito-SemiBold',  
    400: 'Nunito-SemiBold',  
    500: false,  
    600: 'Nunito-SemiBold',  
    700: 'Nunito-Bold',  
    800: false,  
    900: false,  
  ),  
  italic: (  
    100: false,  
    200: false,  
    300: false,  
    400: false,  
    500: false,  
    600: false,  
    700: false,  
    800: false,  
    900: false  
  )  
);
```

Colors, Fonts, and Other Settings

1. Adjusting colors
2. Changing fonts
3. **Component settings**



Component settings

- **There are a handful of component settings that you can alter**
Look through `_uswds-theme-components.scss` to find things you may want to create a custom value for.
- **Example:**
Let's say that we don't want to have a border radius on buttons. There is a setting for that. Simply adding `$theme-button-border-radius: 0;` to our custom settings will remove it without the need to override with sass.

Custom Styling

Costumes complete the scene

Custom Styling

→ What comes after settings?

Once customization through settings has been exhausted, it is time to start with custom styling for your theme. You will want to compile your custom sass partials after USWDS so that you can take advantage of the USWDS tool kit.

→ Using USWDS settings values in your SASS

You have access to the values defined in your settings with USWDS sass functions.

Example: `background-color: color("primary")`

Drupal UI Walkthrough

It's rehearsal time. Places everyone!

1. Theme Settings
2. Headers
3. Footers



Theme Settings

→ What can you do with the UI?

Using the Drupal User Interface you can manage a number of display options for your website:

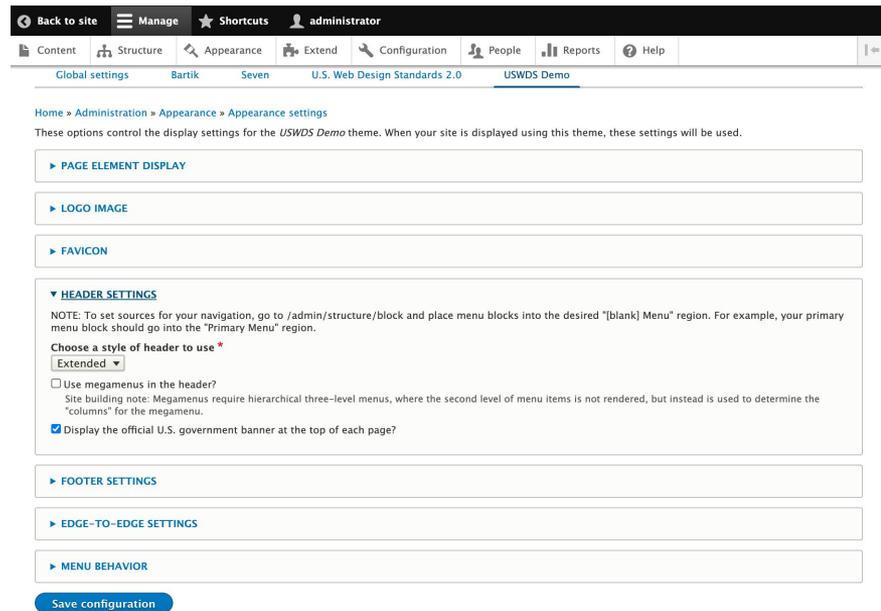
- ◆ Header Settings
- ◆ Footer Settings
- ◆ Logo
- ◆ Favicon
- ◆ Page Element Display
- ◆ Edge to Edge Settings
- ◆ Menu Behaviors

1. Theme Settings
- 2. Headers**
3. Footers



Headers

- Theme Header Settings
 - ◆ Header Styles
 - Basic
 - Extended
 - ◆ Use Megamenu in header
 - ◆ Display official US government banner at the top of the page



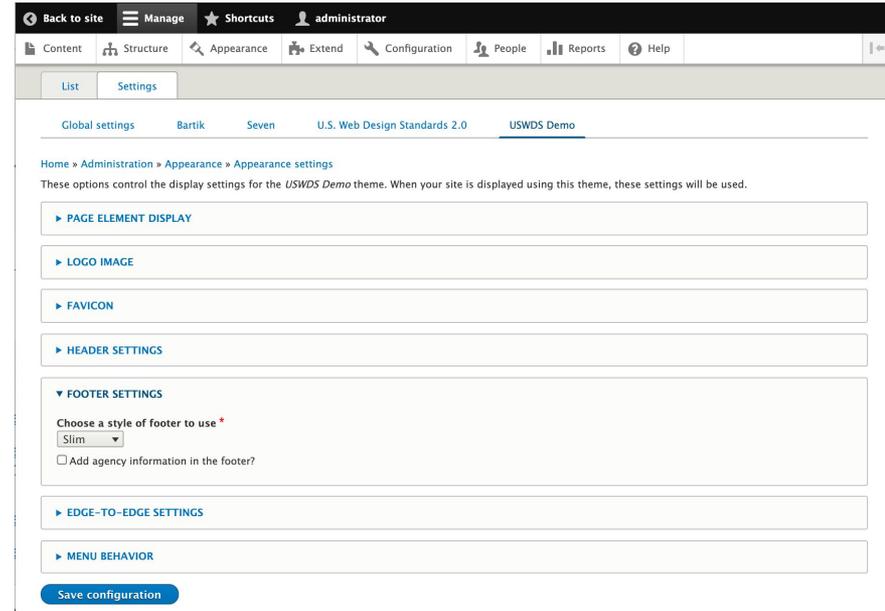
Drupal UI Walkthrough

1. Theme Settings
2. Headers
- 3. Footers**



Footers

- Theme Header Settings
 - ◆ Footer Styles
 - Slim
 - Medium
 - Big
 - ◆ Add Agency information



**STATLER I NEVER THOUGHT ID SAY THIS,
BUT I THINK I'D RATHER WATCH THE
MUPPETS**

**YEAH NO KIDDING THEYRE TERRIBLE
BUT THIS IS HORRIBLE!**

memegenerator.net

Open Discussion

Resources

- <https://designsystem.digital.gov/>
- <https://github.com/CivicActions/uswds-drupal-demo>
- <https://www.drupal.org/project/uswds>
- <https://github.com/uswds/uswds-gulp>
- <https://brianseek.github.io/uswds-color-picker/>