

All the cool things you can do when you don't support IE11

Mike Herchel

Olivero Drupal Core Subsystem Maintainer

(and how we can use these
in Drupal core)



Mike Herchel

- Senior Front-end Developer at AVB Digital
- Olivero Core Subsystem Maintainer (and lead dev)
- Community Elected at-Large Board of Directors member of the Drupal Association
- @mikeherchel on twitter
- @mherchel on Drupal.org

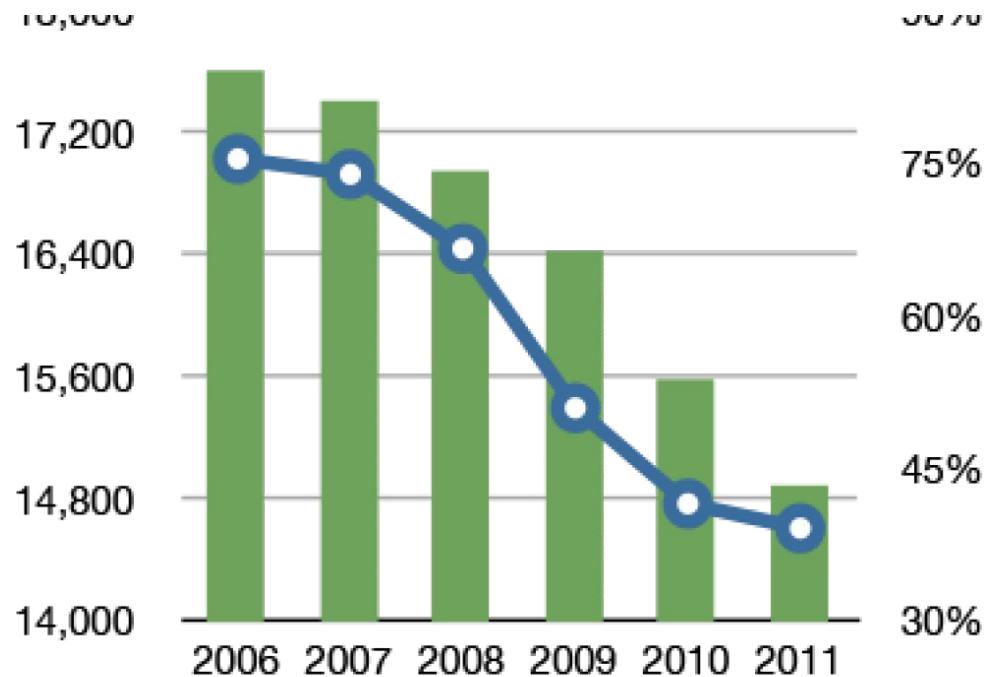


Florida DrupalCamp 2022

ORLANDO FL | FEB 18-20, 2022

www.flDrupal.camp

Internet Explorer usage vs US murder rate



DRUPAL'S FRONT-END

INTERNET EXPLORER



Agenda

- ~~Funny memes~~
- History and backwards compatibility
- What's in core now
- Cool new CSS features
- How core **might** use these features

Manage Shortcuts admin Autocomplete Progress Buttons Tabs Messages Dialogs Tabledrag Edit

Content Structure Appearance Extend Configuration People Reports Help

My account Log out

Bartik
This is my awesome ass slogan 🔥

Home Webforms Contact

Search



Tools

[Add content](#)

Layout Builder Page Test

Submitted by [admin](#) on Fri, 04/02/2021 - 09:23

[Read more](#)

Prow scuttle parrel provost Sail ho shrouds spirits boom mizzenmast yardarm. Pinnace holystone mizzenmast quarter crow's nest nipperkin grog yardarm hempen halter furl. Swab barque interloper chantey doubloon starboard grog black jack gangway rutters.

Deadlights jack lad schooner scallywag dance the hempen jig carouser broadside cable strike colors. Bring a spring upon her cable holystone blow the man down spanker Shiver me timbers to go on account lookout wherry doubloon chase. Belay yo-ho-ho keelhaul squiffy black spot yardarm spyglass sheet transom heave to.

Embedded media demonstration

Submitted by [admin](#) on Wed, 11/04/2020 - 09:55

Lorem ipsum dolor sit amet consectetur adipisicing elit. Saepe quibusdam dignissimos vero quis tempore est pariatur earum alias temporibus ab! Laborum corporis facilis voluptates laboriosam aliquid ipsam deleniti consequuntur eius!

Tags

[Demonstration](#)

[Read more](#) [Add new comment](#)

Demonstration of non-media image embeds

Submitted by [admin](#) on Wed, 11/04/2020 - 09:31



Lorem ipsum dolor sit amet consectetur adipisicing elit. Saepe quibusdam dignissimos vero quis tempore est pariatur earum alias temporibus ab! Laborum corporis facilis voluptates laboriosam aliquid ipsam deleniti consequuntur eius!

No alignment no caption

[Back to site](#) [Manage](#) [Shortcuts](#) [admin](#)

[Content](#) [Structure](#) [Appearance](#) [Extend](#) [Configuration](#) [People](#) [Reports](#) [Help](#)

Configuration

Home » Administration

[Hide descriptions](#)

PEOPLE

[Account settings](#)
Configure default user account settings, including fields, registration requirements, and email messages.

CONTENT AUTHORIZING

[Text formats and editors](#)
Select and configure text editors, and how content is filtered when displayed.

DEVELOPMENT

[Performance](#)
Configure caching and bandwidth optimization.

[Logging and errors](#)
Configure the display of error messages and database logging.

[Maintenance mode](#)
Take the site offline for updates and other maintenance tasks.

[Configuration synchronization](#)
Import and export your configuration.

SEARCH AND METADATA

[Search pages](#)
Configure search pages and search indexing options.

[URL aliases](#)
Add custom URLs to existing paths.

WEB SERVICES

[RSS publishing](#)
Configure the site description, the number of items per feed, and whether feeds should be titles/teasers/full-text.

SYSTEM

[Basic site settings](#)
Change site name, email address, slogan, default front page, and error pages.

[Cron](#)
Manage automatic site maintenance tasks.

USER INTERFACE

[Shortcuts](#)
Add and modify shortcut sets.

MEDIA

[File system](#)
Configure the location of uploaded files and how they are accessed.

[Image styles](#)
Configure styles that can be used for resizing or adjusting images on display.

[Media Library settings](#)
Manage Media Library settings.

[Media settings](#)
Manage media settings.

[Responsive image styles](#)
Manage responsive image styles.

[Image toolkit](#)
Choose which image toolkit to use if you have installed optional toolkits.

REGIONAL AND LANGUAGE

[Regional settings](#)
Configure the locale and timezone settings.



By admin, 2 April, 2021

Layout Builder Page Test

Prow scuttle parrel provost Sail ho shrouds spirits boom mizzenmast yardarm. Pinnace holystone mizzenmast quarter crow's nest nipperkin grog yardarm he halter furl. Swab barque interloper chantey doubloon starboard grog black jack gangway rutters.

[Autocomplete](#)[Progress](#)[Buttons](#)[Tabs](#)[Messages](#)[Dialogs](#)[Tabledrag](#)

Deadlights jack lad schooner scallywag dance the hempen jig carouser broadside cable strike colors. Bring a spring upon her cable holystone blow the man down spanker Shiver me timbers to go on account lookout wherry doubloon chase. Belay yo-ho-ho keelhaul squiffy black spot yardarm spyglass sheet transom heave to.

By admin, 4 November, 2020

Embedded media demonstration

Lorem ipsum dolor sit amet consectetur adipisicing elit. Saepe quibusdam dignissimos vero quis tempore est pariatur earum alias temporibus ab! Laborum corporis facilis voluptates laboriosam aliquid ipsam deleniti consequuntur eius!

Tags: [Demonstration](#)

[Back to site](#) [Manage](#) [Shortcuts](#) [admin](#) [Autocomplete](#) [Progress](#) [Buttons](#) [Tabs](#) [Messages](#) [Dialogs](#) [Tabledrag](#)

[Content](#) [Structure](#) [Appearance](#) [Extend](#) [Configuration](#) [People](#) [Reports](#) [Help](#)

Home > Administration

Configuration

[Hide descriptions](#)

People

[Account settings](#)
Configure default user account settings, including fields, registration requirements, and email messages.

Content authoring

[Text formats and editors](#)
Select and configure text editors, and how content is filtered when displayed.

Development

[Performance](#)
Configure caching and bandwidth optimization.

[Logging and errors](#)
Configure the display of error messages and database logging.

[Maintenance mode](#)
Take the site offline for updates and other maintenance tasks.

[Configuration synchronization](#)
Import and export your configuration.

[Devel generate](#)
Generate realistic items (content, users, menus, etc) to assist your site development and testing.

[Form Style](#)
Settings for the Form Style module.

Search and metadata

System

[Basic site settings](#)
Change site name, email address, slogan, default front page, and error pages.

[Cron](#)
Manage automatic site maintenance tasks.

User interface

[Admin Toolbar](#)
Configure the Admin Toolbar module.

[Shortcuts](#)
Add and modify shortcut sets.

Media

[File system](#)
Configure the location of uploaded files and how they are accessed.

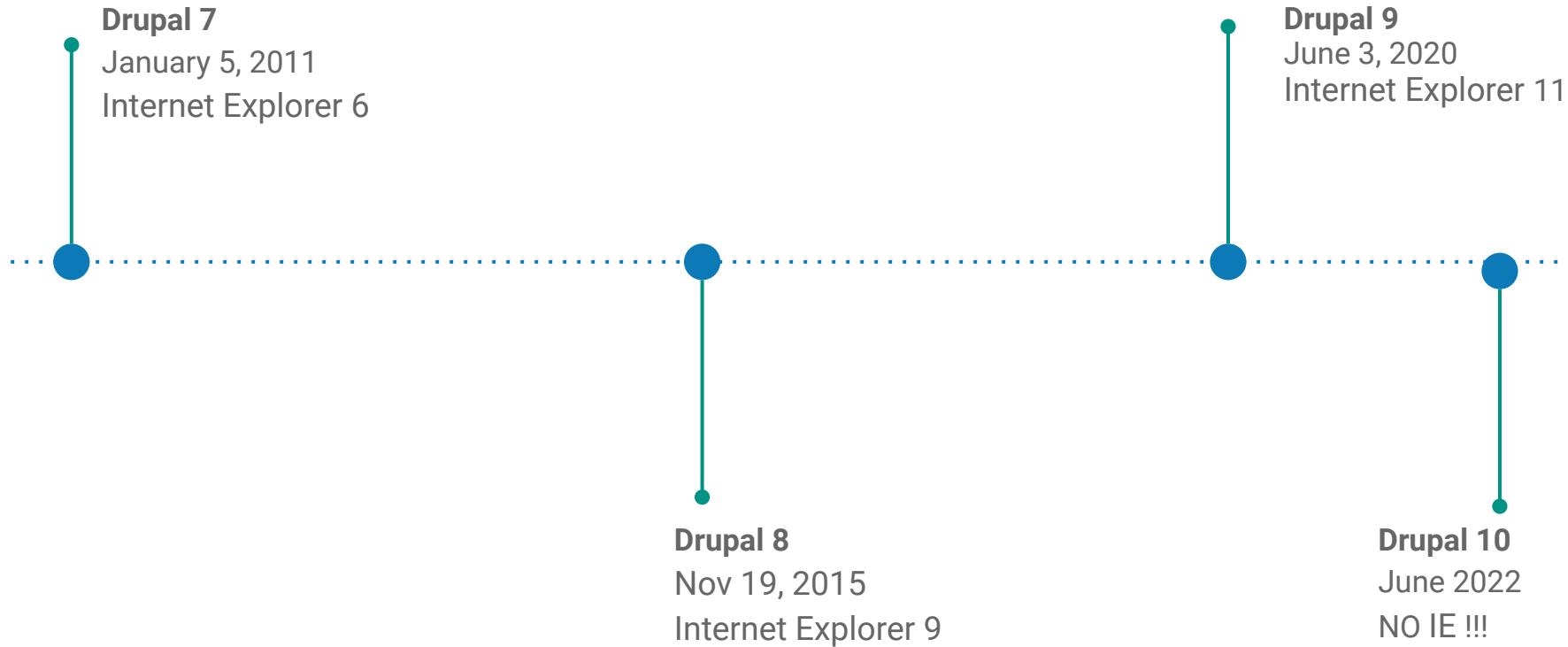
[Image styles](#)
Configure styles that can be used for resizing or adjusting images on display.

[Media Library settings](#)
Manage Media Library settings.

[Media settings](#)
Manage media settings.

[Image toolkit](#)
Choose which image toolkit to use if you have installed optional toolkits.

Internet Explorer Support in Core



Drupal 10 supports

<https://www.drupal.org/docs/system-requirements/browser-requirements>

The latest release of each of the latest two supported major versions of:

- Desktop browsers:
 - Google Chrome
 - Firefox
 - Safari
 - Microsoft Edge
 - Opera
- Mobile browsers:
 - Safari for iOS

The latest supported release of the latest major version of:

- Desktop browsers:
 - Firefox ESR
- Mobile browsers:
 - Chrome for Android
 - Chrome for iOS
 - UC Browser*
 - Opera Mini (except for 'extreme data savings' mode)
 - Samsung Internet

Why is not supporting IE such a big deal?

Release cycle!

- Chromium releases new version every 4 weeks
- Firefox releases new version every 4 weeks
 - ESR version every 1.5 years
- Safari releases new major version roughly every year
 - Minor version releases more often

Tooling in Drupal 9

CSS: postcss-preset-env

JS: Babel

postcss-preset-env

- <https://github.com/css-tools/postcss-preset-env>

Wrapper for a number of useful PostCSS tools that will hopefully make it into CSS standard specs:

- postcss-attribute-case-insensitive
- css-blank-pseudo/postcss
- postcss-color-functional-notation
- postcss-color-hex-alpha
- postcss-color-rebeccapurple
- postcss-custom-media
- postcss-custom-properties
- postcss-custom-selectors
- postcss-dir-pseudo-class
- postcss-double-position-gradients
- postcss-env-function
- postcss-focus-visible
- postcss-focus-within
- postcss-font-variant
- postcss-gap-properties
- postcss-image-set-function
- postcss-initial
- postcss-lab-function
- postcss-logical
- postcss-media-minmax
- postcss-nesting
- postcss-overflow-shorthand
- postcss-page-break
- postcss-place
- css-prefers-color-scheme/postcss
- postcss-pseudo-class-any-link
- postcss-replace-overflow-wrap
- postcss-selector-not

postcss-preset-env

- <https://github.com/csstools/postcss-preset-env>

```
/**  
 * @file  
 * Styles for action links.  
 */  
  
.action-links {  
  padding-block: 0;  
  padding-inline-start: 0;  
  padding-inline-end: 0;  
  list-style: none;  
  
& li {  
  display: inline-block;  
  
& a {  
  color: var(--color--blue-20);  
}  
}  
}
```



```
/**  
 * @file  
 * Styles for action links.  
 */  
  
[dir="ltr"] .action-links {  
  padding-left: 0  
}  
[dir="rtl"] .action-links {  
  padding-right: 0  
}  
[dir="ltr"] .action-links {  
  padding-right: 0  
}  
[dir="rtl"] .action-links {  
  padding-left: 0  
}  
  
.action-links {  
  margin-top: 0;  
  margin-bottom: 0;  
  padding-top: 0;  
  padding-bottom: 0;  
  list-style: none  
}  
.action-links li {  
  display: inline-block  
}  
.action-links li a {  
  color: #0d77b5;  
}  
.action-links-item {  
  display: inline-block;  
}
```

babel

- <https://babeljs.io/>

```
function getStickyHeaderStorage() {
  const stickyHeaderState = localStorage.getItem(
    'Drupal.olivero.stickyHeaderState',
  );
  if (!stickyHeaderState) return false;
  const item = JSON.parse(stickyHeaderState);
  const now = new Date();
```



```
function getStickyHeaderStorage() {
  var stickyHeaderState = localStorage.getItem('Drupal.olivero.stickyHeaderState');
  if (!stickyHeaderState) return false;
  var item = JSON.parse(stickyHeaderState);
```

Problems we want to solve

- Cleaner more maintainable code
- New features
- Easier to extend

New CSS

all: revert;

- **all** shorthand property allows you to reset ALL of an elements properties
- **revert** value changes properties to browser's default.

```
.selector {  
  all: revert;  
}
```

 You are editing the layout for this Layout Builder Page content item. [Edit the template for all Layout Builder Page content items instead.](#) X

Revision information

New revision

Create new revision

[+ Add section](#)

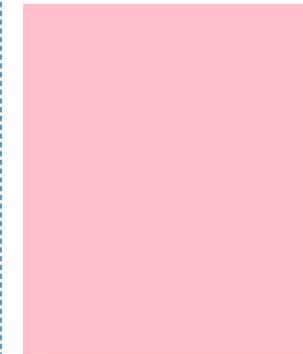
Configure Two Column

Empty Pink



[+ Add block](#)

Empty Pink



[+ Add block](#)

[+ Add section](#)

Configure Section 2

Empty Green

Empty Orange

Empty Yellow

 **Configure block**

Block description Everything Block

Title

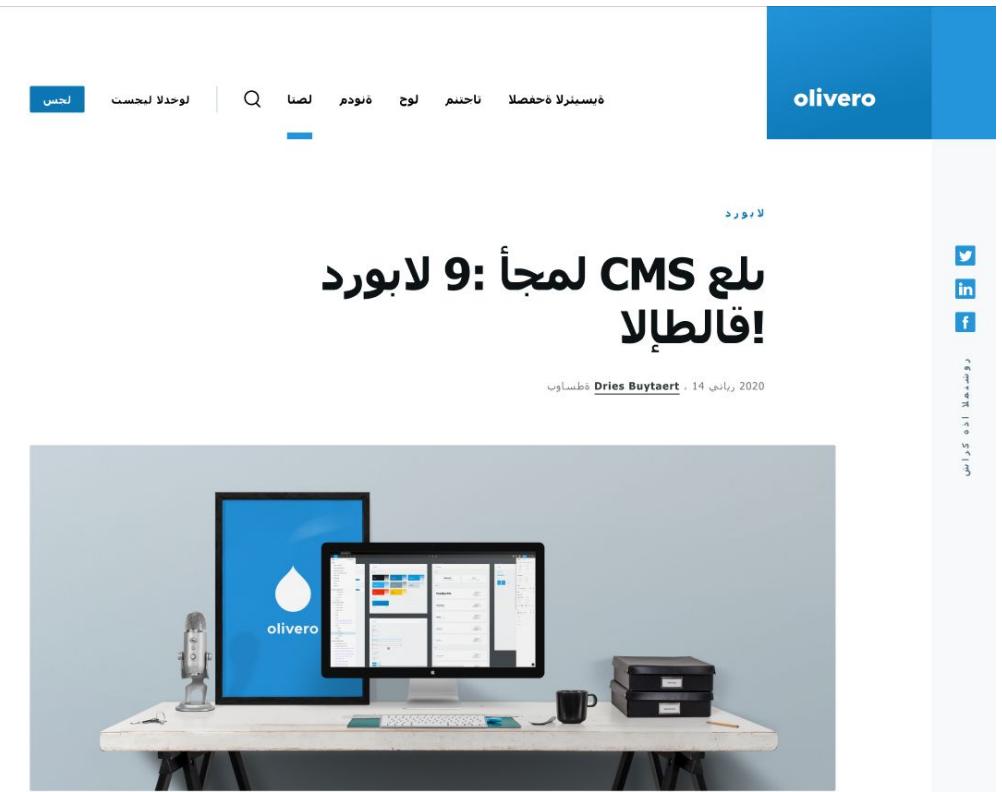
Display title

Body

B **I** |                <img alt="list-item icon" data-bbox="6543 215 6558 2

```
#drupal-off-canvas * {  
    all: revert;  
}  
}
```

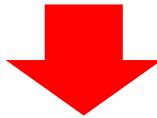
CSS Logical Properties



نوهيشي مهاب، مهاباتنا ذخت بيلا ظفطلا ئيرجلا صوصلا ضعب نوغرقى مهلعجت نا درجمب
ةصالخا ناقيلعغا عيمج ئارقا كوب ئاصالخا طابورلا عيمج فوف رقلاب نوموقىس. كيدى يې بولجلا

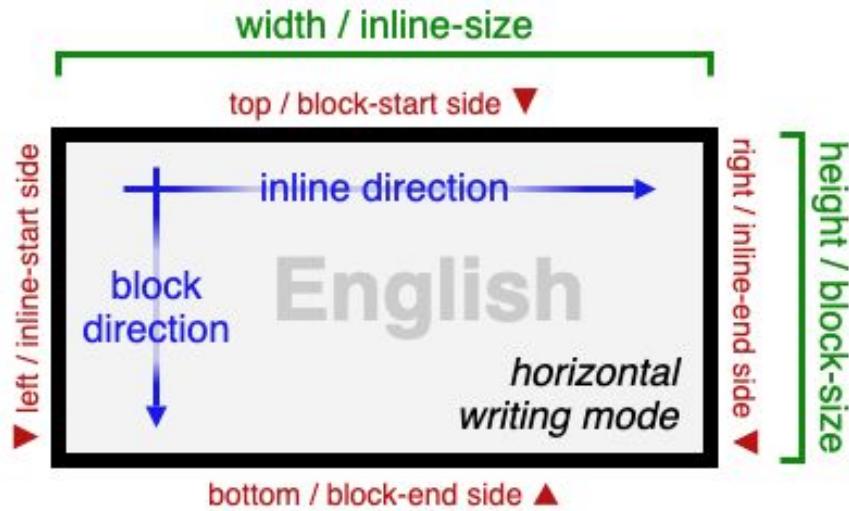
CSS Logical Properties

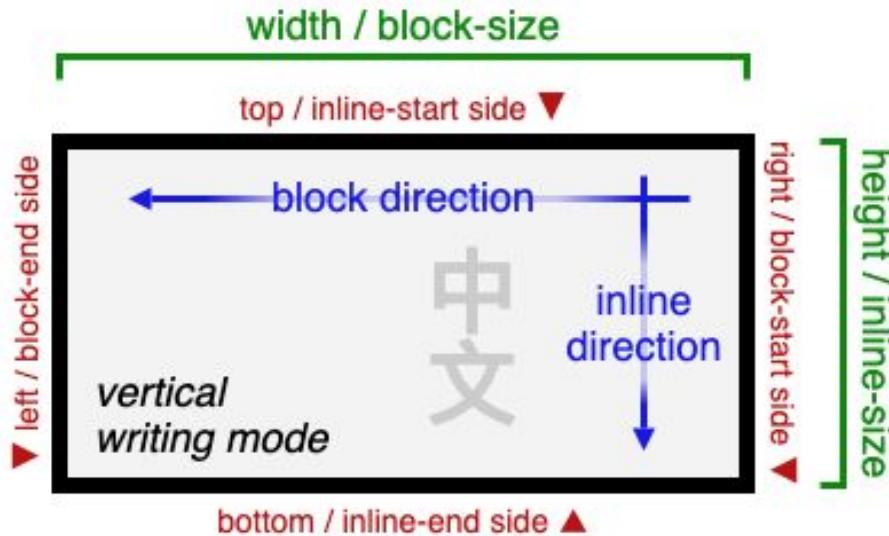
```
.block {  
  padding-left: 10px;  
}  
[dir="rtl"] .block {  
  padding-right: 10px;  
}
```



```
.block {  
  padding-inline-start: 10px;  
}
```

[https://developer.mozilla.org/en-US/docs/
Web/CSS/CSS_Logical_Properties](https://developer.mozilla.org/en-US/docs/Web/CSS/CSS_Logical_Properties)





CSS Grid

Layout Builder Page Test

Prow scuttle parrel provost Sail ho shrouds spirits boom Mizzenmast yardarm.
Pinnace holystone Mizzenmast quarter crow's nest nipperkin grog yardarm hempen
halter furl. Swab barque interloper chantey doubloon starboard grog black jack
gangway rutters.

Deadlights jack lad schooner scallywag dance the hempen jig carouser broadside
cable strike colors. Bring a spring upon her cable holystone blow the man down
spanker Shiver me timbers to go on account lookout wherry doubloon chase. Belay
yo-ho-ho keelhaul squiffy black spot yardarm spyglass sheet transom heave to.

```
arch inputtypes-text inputtypes-url inputtypes-email no-inputtypes-datetime inputtypes-date inputtypes-month inputtypes-week inputtypes-time inputtypes-utime-local inputtypes-number inputtypes-range inputtypes-color details-no-touchvents js">
  <head></head>
  <body class="toolbar-tray-open toolbar-horizontal toolbar-fixed user-logged-in path-frontpage" data-once="form-single-submit quickedit-init tour-contextToolbar-int" style="padding-top: 79px;">
    <a href="#" data-in-content" class="visually-hidden focusable skip-link"></a>
    <div id="toolbar-administration" role="group" aria-label="Site administration toolbar" data-drupal-clario-processed-toolbar class="toolbar clario-toobar toolbar-oriented" data-off="toolbar"></div>
    <div class="dialog-off-canvas-main-canvas" data-off-canvas-main-canvas>
      <div id="page-wrapper" class="page-wrapper">
        <div id="page">
          <header id="header" class="site-header" data-drupal-selector="site-header" role="banner" data-once="navigation"></header>
          <div id="main-wrapper" class="layout-main-wrapper layout-container">
            <div id="main" class="layout-main">
              <div class="main-content">
                <a id="main-content" tabindex="-1"></a>
                <div class="main-content__container container">
                  <div class="region region-highlighted grid-full layout-pass--content-medium iell-autorow"></div> <grid>
                    <main id="main">
                      <div class="region region-content-above grid-full layout-pass--content-medium iell-autorow"></div> <grid>
                        <div class="region region-content grid-full layout-pass--content-medium iell-autorow" id="content"> <grid>
```

CSS Grid new features

- Auto-placement
- Negative grid lines

One IE11 CSS Grid “Hack”

(all of this goes away)

```
/*
ie11-autorow

IE11 does not automatically place new rows, which leads to overlapping
content. We can work around this (when we know that each grid item is
going to span the full width) by setting each child to a new row.
*/
.ie11-autorow > * {
  &:nth-child(1) {
    -ms-grid-row: 1;
  }

  &:nth-child(2) {
    -ms-grid-row: 2;
  }

  &:nth-child(3) {
    -ms-grid-row: 3;
  }

  &:nth-child(4) {
    -ms-grid-row: 4;
  }

  &:nth-child(5) {
    -ms-grid-row: 5;
  }

  &:nth-child(6) {
    -ms-grid-row: 6;
  }

  &:nth-child(7) {
    -ms-grid-row: 7;
  }
}
```

Simplify

```
.layout--content-full {  
    grid-column: 1 / 7;
```

```
@media (--grid-md) {  
    grid-column: 1 / 14;  
}  
}
```



```
.layout--content-full {  
    grid-column: 1 / -1;  
}
```

Displays

Page + Add Edit view name/description View Page

Display name: Page

Title: Tab

Format: Grid

Fields:

Content: Comment count

Content: Content

Content: Content

Content: Published (Published)

Filter criteria Add

Content: Published (= Yes)

Page: How should this view be styled

Grid
 HTML List
 Table
 Unformatted list

If the style you choose has settings, be sure to click the settings button that will appear next to it in the View summary.

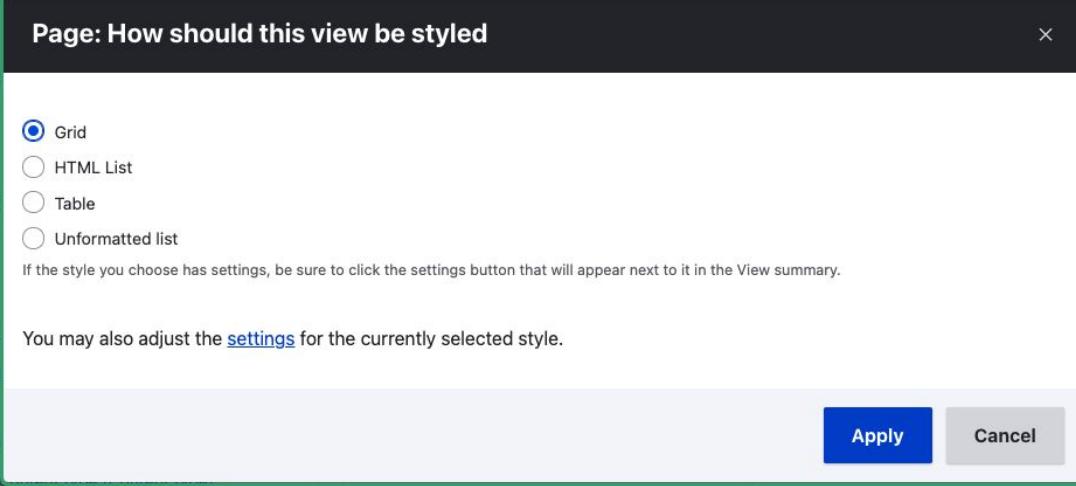
You may also adjust the [settings](#) for the currently selected style.

Apply Cancel

Pager

Use pager: [Mini](#) | [Mini pager, 10 items](#)

More link: [No](#)



<https://www.drupal.org/i/3151553>

```
/*
Grid helpers.

These variables help authors apply widths and negative margins to break items out of
the grid, while still conforming to the larger grid system.

Note we cannot change the values of these custom properties within media queries,
as they are processed by postcss/postcss-custom-properties (for IE11 compatibility),
which does not support that functionality. Therefore, we need a separate custom
property for each breakpoint. 😊
*/
--scrollbar-width: 15px; /* Approximate width of a scrollbar. Doesn't have to be perfect. */

/* Grid gap across various breakpoints. */
--grid-gap: var(--sp);
--grid-gap--md: var(--sp2);
--grid-gap--lg: var(--grid-gap--md);
--grid-gap--nav: var(--grid-gap--md);
--grid-gap--max: var(--grid-gap--md);

/* Column counts at various breakpoints. */
--grid-col-count: 6;
--grid-col-count--md: 14;
--grid-col-count--lg: var(--grid-col-count--md);
--grid-col-count--nav: var(--grid-col-count--md);
--grid-col-count--max: var(--grid-col-count--md);

/* Count of grid-gaps at various breakpoints. */
--grid-gap-count: calc(var(--grid-col-count) - 1);
--grid-gap-count--md: calc(var(--grid-col-count--md) - 1);
--grid-gap-count--lg: var(--grid-gap-count--md);
--grid-gap-count--nav: var(--grid-gap-count--md);
--grid-gap-count--max: var(--grid-gap-count--md);
```

Focus selectors

- :focus-within
- :focus-visible

:focus-within

```
<li class="menu-item">
  <a href="/">link</a>
  <ul class="menu">
    <!-- menu -->
  </ul>
</li>
```

```
.menu-item:focus-within .menu {
  display: block;
}
```

:focus-within

```
/* nav-primary-no-js.pcss.css */
```

```
& .primary-nav__menu-item--level-1:focus-within {  
  & .primary-nav__menu--level-2 {  
    visibility: visible;  
  }  
}
```

:focus-visible

Allows you to only show focus states if user is using keyboard (or AT). Browser determines if this pseudo-selector is active.



Home Webforms ▾ Features ▾ CD Tools ▾

```
.menu-item-link:focus:not(:focus-within) {  
    outline: 0;  
}
```

Selector arguments of :not()

Standard usage of :not() (supported by IE11)

```
/* Selects all <ul> that do not have the "contextual-link" class */

ul:not(.contextual-link) {
    list-style:none;
}
```

Selector argument usage of :not()

```
/* Selects all <li> that not exist under an element with a
"contextual-link" class */

li:not(.contextual-link *) {
    list-style:none;
}
```

:is()

Combine selectors

```
.heading-1 .menu-item .is-active,  
.heading-2 .menu-item .is-active { ... }
```



```
:is(.heading-1,.heading-2) .menu-item .is-active {  
}
```

```
.text-content,  
.cke_editable {  
color: var(--color--gray-10);  
font-family: var(--font-serif);  
line-height: var(--sp1-5);  
  
/*  
 @todo  
  
 text-decoration-thickness is supported by FF & Safari  
 text-underline-offset is supported by Safari  
  
 text-decoration-color supported by Chrome, FF, & Safari  
 */  
  
& a {  
color: var(--color--blue-20);  
text-decoration-color: var(--color--blue-20);  
text-decoration-thickness: 2px;  
overflow-wrap: break-word;  
  
@supports (box-shadow: none) {  
transition: box-shadow 0.3s cubic-bezier(0.55, 0.085, 0, 0.99);  
text-decoration: none;  
box-shadow: inset 0 -2px 0 0 var(--color--blue-50);  
  
&:hover {  
text-decoration: underline;  
color: var(--color--black);  
  
/* @todo - #d9ecfa isn't currently a variable. */  
box-shadow: inset 0 -2em 0 0 #d9ecfa;  
text-decoration-color: #d9ecfa;  
}  
}
```

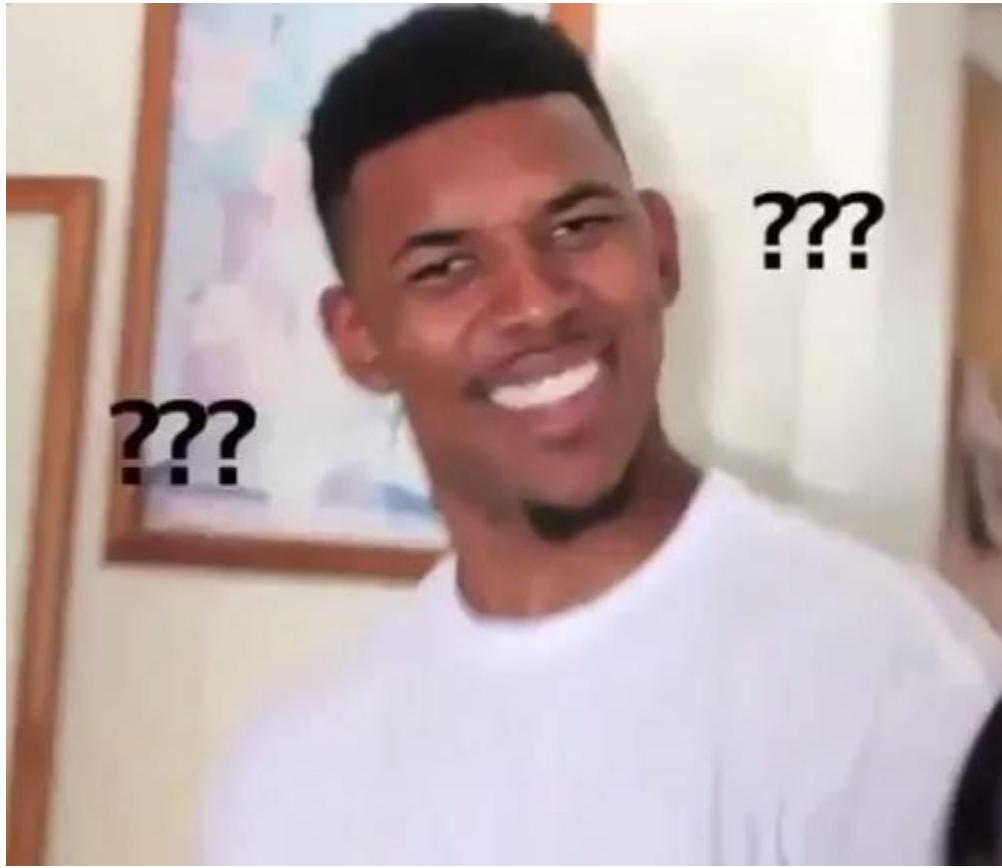
:where()

Combine selectors

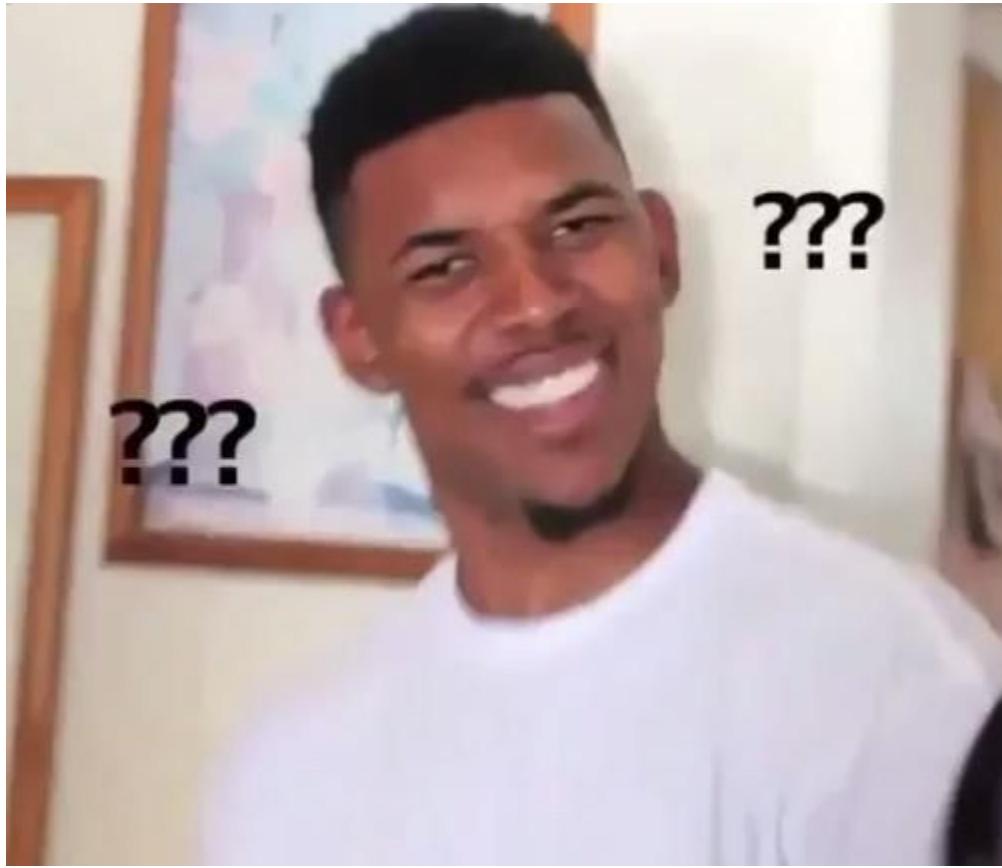
```
.heading-1 .menu-item .is-active,  
.heading-2 .menu-item .is-active { ... }
```



```
:where(.heading-1,.heading-2) .menu-item .is-active {  
  ...  
}
```



**:where() removes
specificity!**



`:is()`

```
li:is(.contextual-link) {  
    ...  
}
```

has the same specificity as

```
li.contextual-link {  
    ...  
}
```

:where()

```
li:where(.contextual-link) {  
    ...  
}
```

has the same specificity as

```
li {  
    ...  
}
```



[adult swim]

Combining :not() and :where()

```
/*
 * Selects all <li> that are descendants of a .contextual-link class,
 * but has the same specificity of a <li>
 */

li:where(:not(.contextual-link *)) {
    list-style:none;
}
```



[adult swim]

But... UC Browser (which is supported by Drupal 10) does not support :where ()



So, lets remove support:

<https://www.drupal.org/i/3251384>

CSS clip-path

Creates a “clipping region” using SVG shape code.

```
.handle {  
  width: 20px;  
  height: 20px;  
  background: black;  
  /* SVG path for a handle icon. */  
  clip-path: path('M20,9.96484375 C20,10.2846875 19.8779297, ... Z');  
};
```

CSS clip-path

Q. Why not just use a background image?

```
.handle {  
  width: 20px;  
  height: 20px;  
  background-image: url('handle.svg');  
};
```

A. Background images do not appear and/or change colors when in forced colors (high contrast) mode.

CSS clip-path with forced color media query 🙌

Background color will change to the text color when in forced colors mode.

```
.handle {  
  width: 20px;  
  height: 20px;  
  background: black;  
  /* SVG path for a handle icon. */  
  clip-path: path('M20,9.96484375 C20,10.2846875 19.8779297, ... Z');  
}  
  
@media (forced-colors: active) {  
  .handle {  
    background: CanvasText; /* CanvasText is a forced colors keyword */  
  }  
}
```

<https://codepen.io/mherchel/pen/qBPaeEQ>

<https://blogs.windows.com/msedgedev/2020/09/17/styling-for-windows-high-contrast-with-new-standards-for-forced-colors/>

CSS VARIABLES



***** **YEAH!!!**

CSS Variables in Drupal 9

- Compiled during build step (similar to Sass variables)
 - This means they cannot dynamically change within media queries
 - Do not cascade
- Can only be attached to the `:root` element

the grid, while still conforming to the larger grid system.

Note we cannot change the values of these custom properties within media queries, as they are processed by postcss/postcss-custom-properties (for IE11 compatibility), which does not support that functionality. Therefore, we need a separate custom property for each breakpoint. 😢

```
*/  
  
--scrollbar-width: 15px; /* Approximate width of a scrollbar. Doesn't have to be perfect. */  
  
/* Grid gap across various breakpoints. */  
--grid-gap: var(--sp);  
--grid-gap--md: var(--sp2);  
--grid-gap--lg: var(--grid-gap--md);  
--grid-gap--nav: var(--grid-gap--md);  
--grid-gap--max: var(--grid-gap--md);  
  
/* Column counts at various breakpoints. */  
--grid-col-count: 6;  
--grid-col-count--md: 14;  
--grid-col-count--lg: var(--grid-col-count--md);  
--grid-col-count--nav: var(--grid-col-count--md);  
--grid-col-count--max: var(--grid-col-count--md);  
  
/* Count of grid-gaps at various breakpoints. */  
--grid-gap-count: calc(var(--grid-col-count) - 1);  
--grid-gap-count--md: calc(var(--grid-col-count--md) - 1);  
--grid-gap-count--lg: var(--grid-gap-count--md);  
--grid-gap-count--nav: var(--grid-gap-count--md);  
--grid-gap-count--max: var(--grid-gap-count--md);  
  
/* Width of the entire grid at various breakpoints. */  
--grid-full-width: calc(100vw - var(--sp2));  
--grid-full-width--md: var(--grid-full-width);  
--grid-full-width--lg: calc(var(--grid-full-width) - var(--scrollbar-width));  
--grid-full-width--nav: calc(100vw - var(--scrollbar-width) - var(--content-left) - var(--sp4));  
--grid-full-width--max: calc(var(--max-width) - var(--sp4));  
  
/* Width of a grid column at various breakpoints */
```

CSS Variables in Drupal 10

- Dynamic (executed at runtime)
- Ability to attach variables to HTML elements
- Issue is RTBC!
<https://www.drupal.org/i/3253148>

**What might this
look like?**

**Drupal's CSS
variable architecture
is a new API!**

Drupal promises “Easy upgrades forever”.



<https://www.drupal.org/blog/making-drupal-upgrades-easy-forever>

We have ONE shot
to get this right.



No pressure

memesmix.net

meme-arsenal.ru

CSS Variables in Drupal 10

- Define some basic properties that will always be abstracted out
 - Spacing unit
 - Primary color
 - Secondary color
 - Font-sizes
 - Line heights
 - ???

CSS Variables in Drupal 10

- Give them names, load them in Drupal's system CSS, and reference them in appropriate files.
 - Spacing unit: `--drupal--spacing`
 - Primary color: `--drupal--color-primary-10`
 - Secondary color: `--drupal--color-secondary-10`
 - Font-sizes: `--drupal--font-size-xl`
 - Line heights: `--drupal--line-height-xl`

CSS Variables in Drupal 10*

Themes can easily override styles

```
/* My theme's CSS file */
:root {
  --drupal--spacing-unit: var(--my-theme-spacing-unit);
  --drupal--color-primary-10: var(--my-theme-primary-color-10);
  --drupal--color-secondary-10: var(--my-theme-secondary-color-10);
  --drupal--font-size-xl: var(--my-theme-whatever-name-i-want-here);
  --drupal--line-height-xl: var(--my-theme-yada-yada-yada);
}
```

CSS Variables in Drupal 10*

Themes can use newfangled selectors

```
:root *:where(:not(admin-bar, .admin-bar *)) {  
  --drupal--spacing-unit: var(--my-theme-spacing-unit);  
  --drupal--color-primary-10: var(--my-theme-primary-color-10);  
  --drupal--color-secondary-10: var(--my-theme-secondary-color-10);  
  --drupal--font-size-xl: var(--my-theme-whatever-name-i-want-here);  
  --drupal--line-height-xl: var(--my-theme-yada-yada-yada);  
}
```

Or simple selectors – and override styles without having to rewrite entire selectors!!! 🙌

```
.tabs {  
  --drupal--spacing-unit: var(--my-theme-spacing-unit);  
  --drupal--color-primary-10: var(--my-theme-primary-color-10);  
  --drupal--color-secondary-10: var(--my-theme-secondary-color-10);  
  --drupal--font-size-xl: var(--my-theme-whatever-name-i-want-here);  
  --drupal--line-height-xl: var(--my-theme-yada-yada-yada);  
}
```

```
.tabs {  
  --tabs--tab-active-border-size: 6px;  
  --tabs--line-color: var(--drupal--color-primary-10);  
  --tabs--border-color: var(--drupal--color-primary-10);  
  --tabs--background-color: var(--drupal--color-gray-90);  
  --tabs--background-hover-color: var(--drupal--color-gray-70);  
  --tabs--margin-block: var(--drupal--spacing-unit);  
  --tabs--tab--padding-block: var(--drupal--spacing-unit);  
  --tabs--tab--padding-inline: calc(2 * var(--drupal--spacing-unit));  
  
  display: flex;  
  flex-direction: column;  
  width: 100%;  
  margin-block: var(--tabs--margin-block);  
  margin-inline-start: 0;  
  margin-inline-end: 0;  
  padding-block: 0;  
  padding-inline-start: 0;  
  padding-inline-end: 0;  
  list-style: none;  
}  
  
.tabs__tab {  
  padding: var(--tabs--tab--padding-block) var(--tabs--tab--padding-inline);  
}
```



[adult swim]

BUT WAIT

THERE'S MORE

thebiggenerator.net



By admin, 2 April, 2021

Layout Builder Page Test

Prow scuttle parrel provost Sail ho shrouds spirits
Pinnace holystone Mizzenmast quarter crow's nest
halter furl. Swab barque interloper chantey double
gangway rutters.

Deadlights jack lad schooner scallywag dance the cable strike colors. Bring a spring upon her cable I spanker Shiver me timbers to go on account look yo-ho-ho keelhaul squiffy black spot yardarm spy,

Accessibility-Basi

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Advanced

Accessibility

Containers

Accessibility Labels Descriptions

Accessibility Wizard

Job Application

Registration

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- 6 -

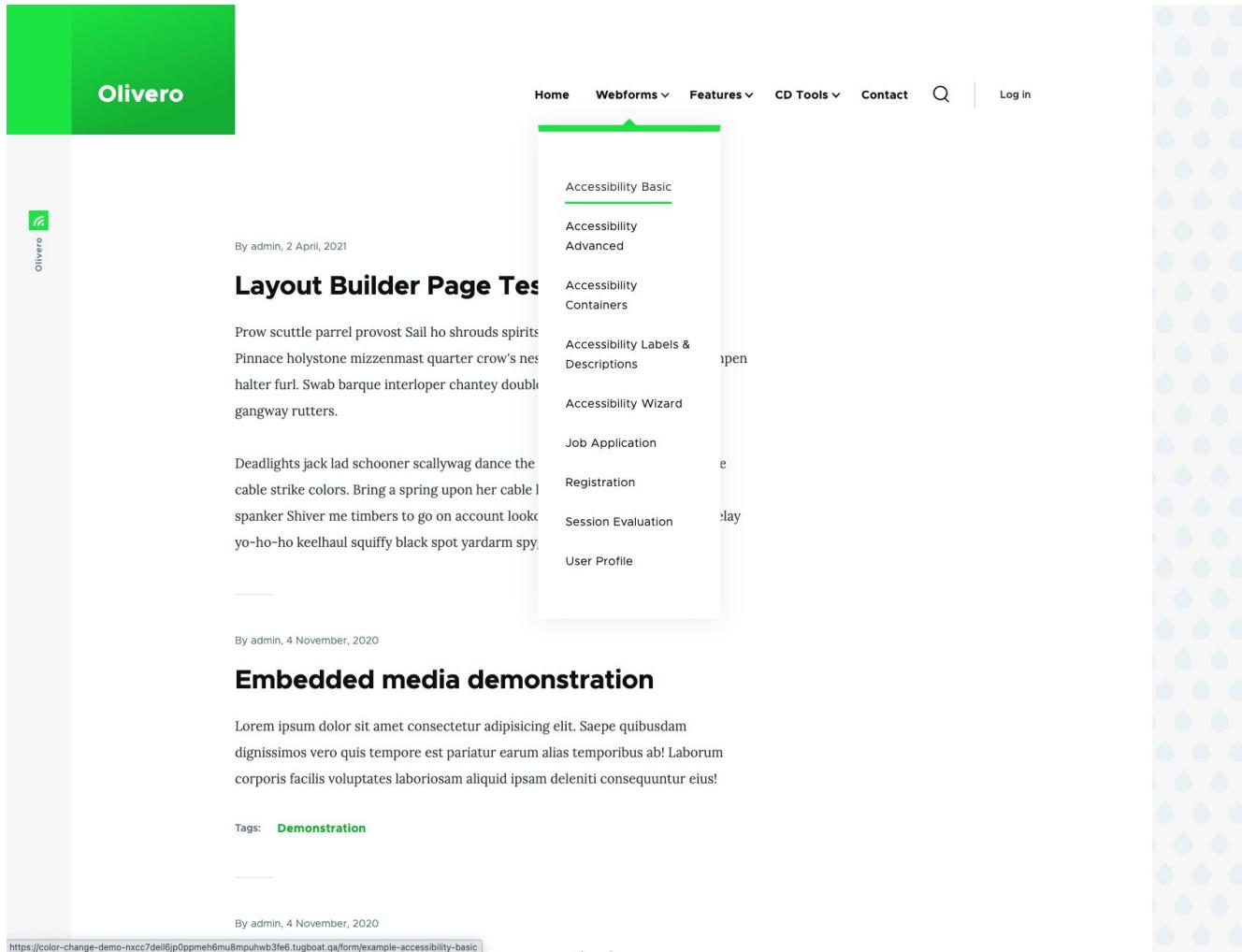
By admin, 4 November, 2020

Embedded media demonstration

Lorem ipsum dolor sit amet consectetur adipisicing elit. Saepe quibusdam dignissimos vero quis tempore est pariatur earum alias temporibus ab! Laborum corporis facilis voluptates laboriosam aliquid ipsam deleniti consequuntur eius!

Tags: Demonstration

By admin, 4 November, 2020





By admin, 2 April, 2021

Layout Builder Page Test

Prow scuttle parrel provost Sail ho shrouds spirits
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cable strike colors. Bring a spring upon her cable I
spanker Shiver me timbers to go on account look
yo-ho-ho keelhaul squiffy black spot yardarm spy,

By admin, 4 November, 2020

Embedded media demonstration

Lorem ipsum dolor sit amet consectetur adipisicing elit. Saepe quibusdam
dignissimos vero quis tempore est pariarur earum alias temporibus ab! Laborum
corporis facilis voluptates laboriosam aliquid ipsam deleniti consequuntur eius!

Tags: [Demonstration](#)

By admin, 4 November, 2020

<https://color-change-demo-nxcc7de16jp0ppmeh6mu8mpuhwb3fe6.tugboat.qa/#form/example-accessibility-basic>

CSS Variables Olivero Color Change

Demo:

<https://color-change-demo-nxcc7deil6jp0ppmeh6mu8mpuhwb3fe6.tugboat.qa/>

BUT WAIT

THERE'S MORE

thebiggenerator.net

Displays

Page + Add Edit view name/description View Page

Display name: Page

Title: Tab

Format: Grid

Fields:

Content: Comment count

Content: Content

Content: Content

Content: Published (Published)

Filter criteria Add

Content: Published (= Yes)

Page: How should this view be styled

Grid

HTML List

Table

Unformatted list

If the style you choose has settings, be sure to click the settings button that will appear next to it in the View summary.

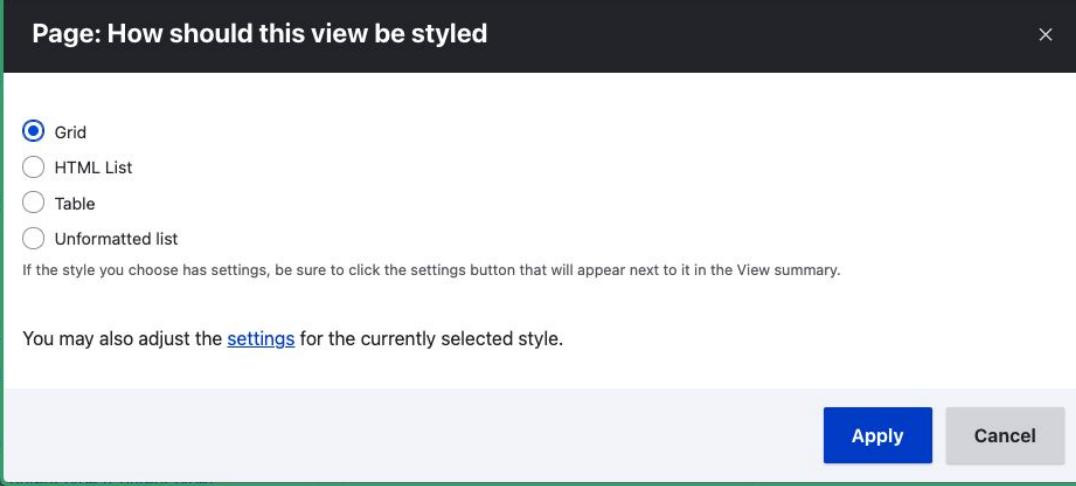
You may also adjust the [settings](#) for the currently selected style.

Apply Cancel

Pager

Use pager: [Mini](#) | [Mini pager, 10 items](#)

More link: [No](#)



<https://www.drupal.org/i/3151553>

Server side injected CSS Variables

Twig can inject dynamic server-side variables! So we can do things like

```
<div
  class="views-grid"
  style="--drupal--views-grid--column-count: 4"
>

.views-grid {
  display: grid;
  grid-template-columns: repeat(var(--drupal--views-grid--column-count), 1fr);
}
```

BUT WAIT

THERE'S MORE

thebiggenerator.net

JavaScript injected CSS Variables

JS can inject dynamic server-side variables! So we can do things like

```
<body style="--drupal--displace--block-start: 39px">
```

```
.my-fixed-header {  
  position:fixed;  
  top: var(--drupal--displace--block-start, 0);  
}
```

The screenshot shows a Drupal administrative interface. At the top, there's a black navigation bar with various links: Manage, Shortcuts, admin, Autocomplete, Progress, Buttons, Tabs, Messages, Dialogs, and Tabledrag. Below this is a secondary navigation bar with links for Content, Structure, Appearance, Extend, Configuration, People, Reports, and Help. The main content area has a blue header bar with a close button (X), the name "Olivero", and a search icon. Below this, the page content displays the injected CSS variable: "halter furl. Swab barque interloper chaney doubloon starboard grog black jack gangway rutters." At the very bottom of the page, there's a footer with the text: "Deadlights jack lad schooner scallywag dance the hempen jig carouser broadside".



[adult swim]

We have ONE shot
to get this right.

LETS DO IT!

CSS Modernization Initiative:
drupal.org/i/3254529



Drupal™

Download & Extend

Drupal Core Distributions Modules Themes General projects

Issues

[PLAN] Drupal CSS Modernization Initiative

[View](#) [Edit](#) [View history](#) [CLONE ISSUE](#)

With IE finally being removed from Drupal core ([#3252084: \[meta\] Remove support for IE11](#)), we finally get a chance to modernize Drupal's CSS.

This includes things like

- CSS Custom Properties (aka CSS variables)
- Use of CSS Grid
- Use of CSS Logical Properties
- :is() and :where() selectors
- Selector arguments within :not()
- Proper CSS resets for things like settings tray and contextual links though the all: revert property and value.

Drupal's CSS Custom Properties will be a new API in core

The biggest and most important thing is CSS Custom Properties (aka CSS variables). We need to decide the following

- When and where to implement them
- How to name them
- How much to abstract them
- Can we mark certain custom properties as internal? Should we? How?
- The process of deprecating custom properties. Can we use JavaScript to read them and then trigger deprecation warnings?
- How does this fit into the bigger picture of backwards compatibility for markup and CSS?

Because of Drupal's "[Easy Upgrades Forever](#)", we need to get this right **the first time**. Properly implemented, CSS custom properties have the potential to dramatically ease the themer's workload. However, because themes will become reliant on these custom properties, we have to be very intentional about the implementation, as we may not get a second chance.

Opportunities

We have tons of opportunities for improvements here.

Active	
Project:	Drupal core
Version:	10.0.x-dev
Component:	CSS
Priority:	Normal
Category:	Plan
Assigned:	Unassigned
Issue tags:	CSS about tags
Reporter:	mherchel
Created:	15 Dec 2021 at 08:01 EST
Updated:	15 Dec 2021 at 08:08 EST

Following 1 follower

Jump to comment: [Most recent](#), [Add new](#)

[Add child issue](#), [clone issue](#),
[add change notice](#)

Thank you!

Mike Herchel

Olivero Drupal Core Subsystem Maintainer

twitter.com/mikeherchel

drupal.org/u/mherchel

Join me!
drupal.org/i/3254529