DrupalCamp NJ 2018

Bundles All The Way Down

- 1. Media's coming to core
- 2. Set up a bundle
- 3. Theme a bundle
- 4. Bundle a bundle in a bundle
- 5. Make a (*nice*) embedding workflow
- 6. Responsive Bundles
- 7. Lazy Loaded Bundles

Conceptual

Sitebuilding

Theming

Sitebuilding + Theming

Sitebuilding + Theming

Sitebuilding

Sitebuilding

Obligatory Meet-Your-Host Slides

Name:

l am:

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Front-end Dev & Themer for Princeton.edu

I am @:itmaybejjI am not:Irish Whiskey \rightarrow



Obligatory Meet-Your-Host Slides

Princeton U.'s main site migrated to D8 in 2017. We needed Media to make it...

- ...actually easy to create images and videos. No more IMCE-type-things.
- ...actually easy to **select and embed** things.
- ...actually easy to preview embeds and swap layouts right in WYSIWIG. No more "save and preview and then edit again."
- ...actually easy to **combine** embeds into clusters and slideshows.

And we needed HUGE images that didn't slow the site down on mobile...



I also wanted the config and dev work to be easy but it wasn't which is why I learned enough to fill this hour and have a bunch of slides left over.



So now we have lots of inline embed options.

- Column width with caption at right
- Full page width
- Floating ½- and ⅓-column-width
- Actual size (aka teeny)

www.princeton.edu/news/2017/09/07/orientation-class-2021-emphasizes-service-connection

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Meet Princeton Academics Research One Community Admission & Aid News Events Work at Princeton Links for Alumni Giving Q

Richardson directed students as they cleaned a storeroom filled with books and toys at the YWCA Princeton. The students had participated in volunteer activities in high school, and were eager to offer their skills and time to the larger Princeton community.



"I feel very welcome here," said Dylan Kim from Marietta, Georgia. "[Community Action] has been a great way to meet a wide variety of people with diverse perspectives."

"I'm super-excited to be here," added Sophia Hu from East Brunswick, New Jersey, saying she intends to continue participating in service projects, such as teaching English as a Second Language, in the coming years.

"Princeton real, Control of their community," said Cynthia Vu from Garden Grove, California.

"It's really nice to meet new people that I may not have mentors close to our age," said Tonkovic-Capin. "I've been also able to ask questions about academics, social life and clubs, and that's been really helpful."

Carlie Littlefield from Des Moines, Iowa, spent Wednesday morning helping Brandywine Living residents paint carnival games for an upcoming National Assisted Living Week celebration. Having only visited the University, and not the surrounding area, Littlefield was eager to connect with the community. "It is really special," she said. "I've made a bond with the group that I served with, and made a



Outdoor Action students climb up a rock formation at Coopers Rock State Forest in West Virginia. Photo courtesy of Outdoor Action



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Meet Princeton Academics Research One Community Admission & Ald News Events Work at Princeton Links for Alumni Giving Q

community engagement, including the Pocono Environmental Education Center in Dingmans Ferry, Pennsylvania; Trenton Circus Squad in Trenton, New Jersey; Hawthorne Avenue Farm (an urban farm plot in Newark, New Jersey); and the Kate Gorrie Butterfly House at the Stony Brook-Millistone Watershed Association in Hopewell, New Jersey.

Through peer-led small groups, the students examined social issues and reflected on their own social and civic identity.





Community Action participants get a lesson in juggling with the Trenton Circus Squad in Trenton, New Jersey, which aims to empower low-income and at-fisk youth through circus arts. *Photo by Estibaliz Matulewicz, Class* of 2020

First-year students Paige Thompson, from Los Angeles; Arielle Mindel, from Cherry Hill, New Jersey; and Molile Price, from Rogersville, Tennessee, work with Community Action leader Martin Kurian, a senior, to build a rain chain display for the Pocono Environmental Education Center in Dingmans Ferry, Pennsylvania. Photo by Community Action Fellow Heather Waters, Class of 2020

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First-year student Adam Hazelton (right) from Bakersfield, California, helps Allison Jackson, senior naturalist at the Story Brook-Millstone Watershed Association, collect butterfiles for the Kate Gorrie Butterfy House at the watershed association's SEO-acre reserve in Hopewell, New Jersey. Photo courtesy of the Story Brook-Millstone Watershed Association



- Clusters

 (side-by-side images, masonry-like arrays)
- Slideshows



Body

Our editors can pick *in the node editor* from about a dozen of these view modes.

Each view mode can show different fields, render different responsive image styles, trigger different CSS/JS, and display correctly(ish) in-editor.

Embed media

×

Selected entity

N PACE car and researchers

Display as *

✓ Column Width

Left Fixed Size Left Half Left Third Page width Right Fixed Size Right Half Right Third Our in-WYSIWYG pop-up browser is delightfully overengineered.

Library Up	load Create Embed					
Туре	Media name C	redit			SEARCH	
- Any -					0	
	Uploaded by					
Select	TITLE // ALT	TYPE	CREDIT	AUTHOR	UPDATED	OPER/
	Robertson	Image	Denise Applewhite	jjameson	01/02/18	Edi
	Yessica Martinez	Image	Denise Applewhite	jjameson	01/02/18	Edi
	Portraiture - Critique group	Slides		maggiew	01/02/18	Ed
PLACE	Portraiture - NY gallery group	Slides		maggiew	01/02/18	Ed

And (Almost) Everything We Used Is On Its Way to Core

Media into Core

From

drupal.org/project/ideas/issues/2786785

All "80% use cases" functionality should eventually become part of core. Everything else that will cover very specific cases will most likely stay in contrib in the foreseeable future.

This effort involves the existing Drupal 8 media modules. Modules that are currently considered part of the Media extras are:

- Embed
- Entity embed
- URL embed
- Entity browser
- DropzoneJs
- Crop API
- Image widget crop
- Focal point
- Field formatter
- Fallback formatter

Media into Core

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- Embed
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- Entity browser
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- Crop API
- Image widget crop
- Focal point
- Field formatter
- Fallback formatter

What we're talking about today... fielded files and an embedding workflow.

What-we're-not-but-it's-cool-look-it-up:

- Drag-to-upload
- Better cropping
- Paste in a url and let Media guess whether you mean YouTube or Twitter

Media into Core

Here's the modules you'll need for now:

- **Media Entity** (maybe... JUST appeared in 8.4 core...I haven't tested yet...)
- Entity Embed for WYSIWIG integration
- Entity Browser and cTools
- Media Entity Image and Video Embed Field and any other Type Providers your site needs (see <u>drupal.org/project/media_entity</u> for the full list)

Let's Make a Bundle!



With those modules installed, "Media bundles" will appear under "Structure."

Let's add one.

0	Back	to site	📕 Manage	★ Shortcuts	1	itmaybejj					
Ŀ	Conte	ent d	Structure	Appearance	÷	Extend	🔧 Config	uration			
	Str	uctu	re 🕁								
	Home	e » Adm	ninistration								
	B C	lock la onfigur	yout e what block co	ntent appears in you	ır site	e's sidebars	and other r	egions.			
	€ C M	omme lanage f	nt types form and displa	ys settings of comm	ents.						
	O C	ontact reate ar	t forms nd manage cont	act forms.							
	Content types Create and manage fields, forms, and display settings for your content.		М	edia bı	undles	\$					
_	O D C	onfigur	modes e what displays	are available for you	ır cor	ntent and f	orms.	Но	me » Admin	istration »	Structure
	• <u>•</u>	ledia k lanage	<mark>oundles</mark> media bundles.						Add media	a bundle)

• Label

Type
 (from provider
 Modules...handles
 thumbnails, oembeds
 etc.)

 Type Provider fields (may appear after picking a type).

Add media bundle \overleftrightarrow

Home » Administration » Structure » Media bundles

Label *

Image

Machine name: image [Edit]

The human-readable name of this media bundle.

Description

Describe this media bundle. The text will be displayed on the Add new media page.

Generic media

🗸 Image

Media type provider plugin that is responsible for additional logic related to this media.

TYPE PROVIDER CONFIGURATION

Field with source information

•

Field on media entity that stores Image file. You can create a bundle without selecting a value for

Now add some fields...

- Add a Reference field for whatever type of media you're adding
- Pick an Allowed
 Number of Values

Edit	Manage fields	Manage form display	Manage display	
Home » Ad	ministration » Structur	e » Media bundles » Edit <i>Ima</i> g	ge	
+ Add fie	ld			
LABEL		MACHINE NAME		
No fields	are present yet.			
Edit	Field settings			
Home » Adm	inistration » Structure » M	edia bundles » Edit <i>Image</i> » . na	ige fields » Image File	
These setting	apply to the <i>Image File</i>	field everywhere it is used. These	se bigs impact the way that	
Upload destination				
 Public files 				
Select where the allows restricted	e final files should be stored. d access to files within this fie	Private file storage has significantly mo ld.	re overhead than public fix but	
▼ DEFAULT	IMAGE			
If no imag	ge is uploaded, this image	will be shown on display.		
Image				
Choose F	ile No file chosen	oaded		
Alternativ	ve text	oaded.		
This text v	vill be used by screen read	ers, search engines, and when the i	mage cannot be Laded.	
Title				
The title at	ttribute is used as a tooltip	when the mouse here and ane in	mage.	
Allowed nun	nber of values			
Limited	▼ 1			
Save fiel	d settings			

Add field rightarrow

Home » Administration » Structure » Media bundle



Add additional fields as desired. Interface is the same as content types.

Common additions:

- Caption
- Credit or Byline
- Link

Here's our "Image" bundle:

- Caption
- Two credit/bylines...
 - ...by taxonomy
 - …freeform for one-offs
- "Credit prefix" (e.g., "Photo by" or "Video by")
- The actual file reference

Home » Administration » Structure » Media types » Edit Image Edit Manage fields Manage form display Mana + ADD FIELD LABEL MACHINE NAME Caption field_media_caption Credit field byline Credit (Freeform) field byline freeform Credit prefix field_byline_prefix Image image

We can now do the same, over and over again.

E.g, for YouTube/Vimeo we'll need the Video Embed Field provider, with the "Video Embed Media" submodule (it's available under "Extend" after installing the provider but isn't enabled by default).



Each new provider adds to the list of types of bundles you can create, and types of reference fields you can add to the bundle.

Add media bundle riangle

Home » Administration » Structure » Media bundles

Label *

The human-readable name of this media bundle.

Description

Describe this media bundle. The text will be displayed on the Add new

Type provider

✓ Generic media

Video embed field

in t<mark>hat is responsible for additional logic rela</mark>

TYPE PROVIDER CONFIGURATION

This type provider doesn't need configuration.

Some extend the base provider. For Video Embed Field, for instance, the field shows a list of installed oEmbed providers you can enable.

Additional providers can be found at: drupal.org/project/video_embed_field

Video URL settings for *Video* ☆

Edit Field settings

Home » Administration » Structure » Media bundles » Edit Video » Manage fields

Label *

Video URL

Help text

Instructions to present to the user below this field on the editing form. Allowed HTML tags: <a> <big> <code> <i> <ins> <q> <sma

This field supports tokens.

Required field

▼ DEFAULT VALUE

The default value for this field, used when creating new content.

Video URL

Allowed Providers

🗹 Vimeo

🗹 YouTube

□ YouTube Playlist

That's it. You're done.

At Princeton we've added a "cover image" -- we display a static image with a play button and only summon the embed JS on click.

Looks nice and really helps page load speed since JS blocks the render thread..

Tome "Automistration " Structure " media types " Luit Video			
Edit Manage fields	Manage form display	Manage display	
+ ADD FIELD			
LABEL	MACHINE NAM	E	
Caption	field_media_ca	otion	
Cover image	field_media_vid	eo_cover_image	
Credit	field_byline		
Credit (freeform)	field_byline_free	eform	
Credit prefix	field_byline_pre	fix	
Save to my media library	field_media_in_	library	
Video URL	field_media_vid	eo_embed_field	

Home "Administration "Structure" Modia types "Edit Video

We have a lot of bundles.

Not yet mentioned...but basically work straight out of the box much as you'd expect:

- Facebook
- Instagram
- Tweet
- Document
- Audio (local MP3)
- Video (local MP4)

0	Document A locally hosted document, such a PDF.
0	Facebook Post A facebook post to embed.
٢	Slides A group of other media items. Used for image groups and slideshows.
0	Image Locally hosted images.
0	Instagram Instagram posts.
0	Audio (Local) Locally hosted audio files.
0	Tweet Represents a tweet.
0	Video A video hosted by YouTube, Vimeo, or some other provider.
0	Video (Local) A locally hosted video file. Typically reserved for small video clips; everything

If you don't make it to Media Explained in the next hour and you get stuck getting these to embed in CKEditor, there's some bonus slides at the end of my deck on how to set up Entity Embed and Entity Browser.

Let's Theme a Bundle



A new bundle barfs **all** its fields onto the page by default.

Switch to the "Manage Display" tab and disable everything you don't want.

Manage display $rac{1}{2}$

|--|

Home » Administration » Structure » Media bundles » Edit Video

FIELD	LABEL	FORMAT
🕂 Media name	– Hidden – 🔻	Plain text 🔻
🕂 Created	– Hidden – 🔹	Default v
💠 Publisher ID	– Hidden – 🔹	Author •
🕂 Thumbnail	– Hidden – 🔹	Image 🔻
🕀 Video URL	Above v	Video 🔻
Disabled		
No field is hidden.		
Court		

Much Better.

Manage display Edit Manage fields Manage form display Manage display Manage display Manage display Manage display Edit Video > Manage display FIELD LABEL FORMAT

🕀 Video URL	– Hidden – 🔹 🔻	Video 🔻	Embedded Video (R
Disabled			
+ Created	Above •	Time ago 🔻	
Publisher ID	Above •	Author •	
🕂 Thumbnail	Above •	URL to image 🔻	
🕀 Media name	Above •	Plain text 🔻	
Save			

Now when we embed this in a test page we just get a nice video:



If you're developing on Classy, it provides some nice wrapper classes for the type and view mode:

Media Media-<mark>video</mark> View-mode-<mark>column-width</mark>



Now you have all you need for basic CSS...

Note that targeting the bundle hits all that bundles view modes, and targeting a view mode hits all bundles with that view mode. Target both if you want to be specific.

```
.view-mode-right-half {
  float: right;
  width: 50%;
  padding: 0 0 1rem 3.5%;
  Clear:right;
}
```

```
.view-mode-left-third {
  float: left;
  width: 33%;
  padding: 0 3.5% 1rem 0;
  clear: left;
```

We can also modify our view mode's markup using Twig.

THIS IS OPTIONAL.

You can skip this if you are OK with the out of the box markup.

```
Go find the "media.html.twig" in your base theme.
```

Look in:

core > themes > stable > templates or core > themes > classy > templates

It should look like this:

```
* @file
 * Theme override to display a media item.
 * Available variables:
     name: Name of the media.
     content: Media content.
  @see template_preprocess_media()
 * @ingroup themeable
 */
#}
18
  set classes = [
    'media'
    'media--type-' ~ media.bundle() clean_class
    not media.isPublished() ? 'media---unpublished'
    view_mode ? 'media--view-mode-' ~ view_mode.id() clean_class
8}
<article{{ attributes.addClass(classes) }}>
  {% if content %}
    {{ content }}
  {% endif %}
</article>
```



Copy it into your theme's templates folder. Maybe make a "media" subfolder to keep yourself organized.

Rename the copy in your theme to match your bundle's machine names: media--[bundle].html.twig or media--[bundle]--[view-mode].html.twig

Always: two hyphens between names, one hyphen within names.

▼	🖿 media
	잘 media.html.twig
	잘 mediagroup-side-by-side.html.twig
	잘 mediagroup-slideshow.html.twig
	잘 mediagroup-tall-first.html.twig
	💊 mediagroup-tall-last.html.twig
	잘 mediagroup-wide-first.html.twig
	잘 mediagroup-wide-last.html.twig
	잠 mediagroup-wide-stack.html.twig
	잘 mediaimage.html.twig
	🏠 mediaimagegroup-slideshow.html.twig
	잘 mediaimagemasonry-image.html.twig
	ႃ mediaimagemasonry-image-large.html.twig
	💊 💊 mediaimagemasonry-image-rectangle.html.twig
	잘 mediaimagepage-width.html.twig
	잘 mediaimagepostcard-switcher.html.twig
	잘 mediaimagepostcard-tall.html.twig
	잘 mediaimageslideshow.html.twig
	잘 mediaimageslideshow-tile.html.twig
	잘 medialocal-audio.html.twig
	💊 mediavideo.html.twig
	💊 video-embed-iframevimeo.html.twig
	잘 video-embed-iframeyoutube.html.twig
	nenu 🖿
	In misc
	news_runs

Example: Let's group an image's caption and byline in custom divs for our responsive CSS, and prefix the byline (e.g. "Photo by" or "Video by")

Mobile is stacked:



First-year students Dylan Kim, from Marietta, Georgia; Sophia Hu from East Brunswick, New Jersey; Anna Nguyen from Ithaca, New York; and Cynthia Vu from Garden City, California, clean a storeroom filled with books and toys at the YWCA Princeton.

Photo by Denise Applewhite, Office of Communications



Desktop has columns:

First-year students Dylan Kim, from Marietta, Georgia; Sophia Hu from East Brunswick, New Jersey; Anna Nguyen from Ithaca, New York; and Cynthia Vu from Garden City, California, clean a storeroom filled with books and toys at the YWCA Princeton. [Photo by][]Denise Applewhite, Office of Communications]]]
We add the div we want to the Twig file using plain old HTML:

```
{{content|without('field_media_caption','field_byline_prefix','field_byline') }}
</div class="image-caption">
    {{ content.field_media_caption }}
    <div class="image-byline">
        {{ content.field_byline|length > 2 %}
        {{ content.field_byline_prefix }}
        {{ content.field_byline_prefix }}
        {{ content.field_byline }}
        {{ conten
```

The original file called {{content}} , which renders all the fields at once. We're going to use {{content.field_machine_name}} instead.

```
{{content|without('field_media_caption','field_byline_prefix','field_byline') }}
<div class="image-caption">
```

{{ content.field_media_caption }}

```
<div class="image-byline">
```

```
{% if content.field_byline|length > 2 %}
```

```
{{ content.field_byline_prefix }}
```

```
{% endif %}
```

```
{{ content.field_byline }}
```

```
</div>
```

```
</div>
```

We render at least one field using <code>|without</code> and the list of all the OTHER fields. This way we get our all-important cache tags too.

{{content|without('field_media_caption','field_byline_prefix','field_byline') }}

<div class="image-caption">

{{ content.field_media_caption }}

<div class="image-byline">

{% if content.field_byline|length > 2 %}

{{ content.field_byline_prefix }}

{% endif %}

{{ content.field_byline }}

</div>

</div>

We do some logic here too -- I'm only rendering the Byline's prefix ("Photo by") if there's content in the Byline field.

{{content|without('field_media_caption','field_byline_prefix','field_byline') }}
<div class="image-caption">

{{ content.field_media_caption }}

<div class="image-byline">

{% if content.field_byline|length > 2 %}

{{ content.field_byline_prefix }}

{% endif %}

```
{{ content.field_byline }}
```

</div>

</div>

Documentation can be found at twig.symfony.com if this syntax is new to you!

Done.



Custom container:

Fields are inside container:

This field only shows up if there's something following it.

First-year students Dylan Kim, from Marietta, Georgia; Sophia Hu from East Brunswick, New Jersey; Anna Nguyen from Ithaca, New York; and Cynthia Vu from Garden City, California, clean a storeroom filled with books and toys at the YWCA Princeton.

Photo by Denise Applewhite, Office of Communications

Let's Bundle a Bundle in a Bundle



Here's our goal -- a masonry-like cluster where:

- each image has a number
- each caption has a number
- the captions are in a separate div in the right order







2 First-year students Paige Thompson, from Los Angeles; Arielle Mindel, from Cherry Hill, New Jersey; and Mollie Price, from Rogersville, Tennessee, work with Community Action leader Martin Kurian, a senior, to build a rain chain display for the Pocono Environmental Education Center in Dingmans Ferry, Pennsylvania. Photo by Community Action Fellow

Heather Waters, Class of 2020

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First-year student Adam Hazelton (right) from Bakersfield, California, helps Allison Jackson, senior naturalist at the Stony Brook-Millstone Watershed Association, collect butterfiles for the Kate Gorrie Butterfily House at the watershed association's 950-acre reserve in Hopewell, New Jersey. Photo courtesy of the Stony Brook-Millstone Watershed Association



We have a bundle we named "Slides," using the Slideshow type provider.

We've defined several view modes for Slides, notably cluster, slideshow and side-by-side.

Home » Administration » Structure » Media types

Edit	Manage fields	Manage form display		
Name *				
Slides	Machin	Machine name: group		
The human-rea	dable name of this media ty	pe.		
Description				

A group of other media items. Used for image groups and slideshows.

Describe this media type. The text will be displayed on the Add new media p

Media source *

Slideshow

Media source that is responsible for additional logic related to this media ty

Home » Administration » Structure » Media types » Edit Slides

Bundles of Bundles

It has...one field.

We can embed as many media items as we want, inside this media item.

That media item comes with all its fields.

Edit	Manage fields	Manage form display	Manage display	Manage moderation			
+ ADD FIELD	+ ADD FIELD						
LABEL		MACHINE NAM	E	FIELD TYPE			
Media		field_group_me	dia	Entity reference			
▼ REFERE	▼ REFERENCE TYPE Reference method *						
Default		•					
Create	referenced entities	if they don't already exist					
Bundles	Bundles *						
Audio	(Local)						
Custor	Custom						
Docum	Document						
Facebo	ook Post						
🗸 Image							
🗌 Instagi	ram						
Slides							
Tweet							
🗹 Video							
🗹 Video (Video (Local)						

The DOM in our Twig file for the images...

```
<article{{ attributes.addClass(classes) }}>
  <div class="cluster-items">
    {% for key, item in content.field_group_media if key|first != '#' %}
    <div class="cluster-half cluster-item">
        <div class="cluster-half cluster-item">
        <div class="cluster-half cluster-item">
        <div class="counter">{{ key + 1 }}</div>{{ item }}</div>
        {% endfor %}
    </div>
```

...a **for** loop walks through the items in field_group_media and renders each with a counter in a div:

The DOM in our Twig file for the captions...same <mark>for</mark> loop...

...but this time we call the field via "drupal_entity()"...using the Caption and Credit view mode:

```
<div class="cluster-caption">

{% for key, item in content.field_group_media if key|first != '#' %}

<div class="cluster-caption-item">

<div class="cluster-caption-item">

<div class="counter">{{ key + 1 }}</div>

<{{ drupal_entity('media', item['#media'].mid.value,

'caption_and_credit') }}</div>

{% endfor %}

</article>
```

Note! you need to install the **"Twig Tweaks"** module to call drupal_entity()!

...the bundles we're referencing have a "just caption" view mode the actual media item field DISABLED so we can do this...

Home » Administration » Structure » Media types » Edit image » Image					
Caption and credit					
FIELD	LABEL	FORMAT			
🕂 Caption	- Hidden - 🗸	Default 🔻			
Credit prefix	- Hidden - 💌	Plain text			
🕂 Credit	- Hidden - 💌	Rendered entity			
Credit (Freeform)	- Hidden - 🔻	Plain text			

Note you have to find the variable name for the ID of the image to do this. This means exploring the render array using the Kint module...which is another talk.

Note! you need to install the **"Twig Tweaks"** module to call drupal_entity()!

That's it.

Images are all in one container, captions and credits in another.





Community Action participants get a lesson in juggling with the Trenton Circus Squad in Trenton, New Jersey, which aims to empower low-income and at-risk youth through circus arts.

Photo by Estibaliz Matulewicz, Class of 2020

First-year students Paige Thompson, from Los Angeles; Arielle Mindel, from Cherry Hill, New Jersey: and Mollie Price. from Rogersville. Tennessee, work with Community Action leader Martin Kurian, a senior, to build a rain chain display for the Pocono Environmental Education Center in Dingmans Ferry, Pennsylvania. Photo by Community Action Fellow Heather

Waters, Class of 2020

First-year student Adam Hazelton (right) from Bakersfield, California, helps Allison Jackson, senior naturalist at the Stony Brook-Millstone Watershed Association, collect butterflies for the Kate Gorrie Butterfly House at the watershed association's 950-acre reserve in Hopewell, New Jersey.

Photo courtesy of the Stony Brook-Millstone Watershed Association



Olivia Richardson, a junior majoring in ecology and evolutionary biology who served as one of the 130 leaders, stressed the role of mentorship Community Action offers. "We [my co-leader and I] provide new students with both one-on-one and group mentorship," she said. "We're living together, eating together [and] cooking together to facilitate those sorts of strong bonds."

The rest is CSS. Our clusters are defined using floats and defined widths because our editors wanted control. Masonry libraries work great too.

- General .cluster-item is half width:
- Specific cluster types go full width based on order, depending on the view mode:

```
& view-mode-group-wide-stack .cluster-item,
&.view-mode-group-wide-first .cluster-item:first-child,
&.view-mode-group-wide-last .cluster-item:last-child {
  width: 100%;
 margin-left: 0;
&.view-mode-group-tall-first {
```

```
position: relative;
                                                                   .counter {
                                                                     font-size: .875rem;
                                                                     color: $dark-gray;
                                                                     font_weight: 700;
                                                                    .cluster-item {
                                                                     width: 47.8%;
                                                                     float: left;
                                                                     margin-bottom:4.4%;
                                                                     position: relative;
                                                                     .counter {
                                                                       bottom:0:
                                                                       background: $pu-orange;
                                                                       position: absolute;
                                                                       padding: .5rem .75rem;
                                                                       text-align: center;
                                                                        line-height: 1;
                                                                       color: $black;
                                                                     &:nth-child(2n) {
                                                                       margin-left: 4.4%;
                                                                    img {vertical-align: bottom;}
.cluster-item + .cluster-item {float: right; clear:right;}
```

.cluster {

float: left: width: 100%;

And if we edit this page in the WYSIWYG editor and switch the view mode to "slideshow"...



...we get a slideshow instead.

The Twig file for THAT view mode changes the classes on the containers to match what our slideshow JS is looking for. Through peer-led small groups, the students examined social issues and reflected on their own social and civic identity.

First-year students Paige Thompson, from Los Angeles; Arielle Mindel, from Cherry Hill, New Jersey; and Mollie Price, from Rogersville, Tennessee, work with Community Action leader Martin Kurian, a senior, to build a rain chain display for the Pocono Environmental Education Center in Dingmans Ferry, Pennsylvania. Photo by Community Action Fellow Heather Waters, Class of 2020

Some Magick: A Better Embedder



Common frustrations to (mostly) solve...

- 1. Media looks different from the live site in the editor. Editors often have to save, preview, edit again.
- 2. Media can be hard to "grab" and edit.
- 3. Alt elements are often invisible to everybody but the people who need them.

Getting your frontend CSS into CKeditor

Edit your themename.info.yml file (frontend not admin) and add these two lines:

ckeditor_stylesheets:

- css/app.css

(where the path is the relative path to the css file(s) you want included

You absolutely COULD include your all the CSS for your whole front-end theme, but you don't need to (and you might get some weird conflicts).

We include a subset -- media and typography only.

We're using SASS...our Gulp file compiles a subset of our CSS (~half):

```
igulp.task('sass', function() {
   return gulp.src('scss/{app,app-for-admin,app-antigue}.scss')
     .pipe($.sass({
      includePaths sassPaths,
       outputStyle: 'compressed' // was compressed
     })
       .on('error', $.sass.logError))
     .pipe($.autoprefixer({
       browsers: ['> .05%', 'last 2 versions']
     }))
     .pipe(gulp.dest('css'));
};
```

Our "app for admin" @include list comments out any of our CSS that isn't relevant for inside CKeditor -things like menu styles, page layout, footer styles...

7	<pre>@include foundation-global-styles;</pre>
8	<pre>@include foundation-grid;</pre>
9	<pre>// @include foundation-flex-grid;</pre>
10	<pre>@include foundation-typography;</pre>
11	<pre>@include foundation-button;</pre>
12	<pre>//@include foundation-forms;</pre>
13	<pre>// @include foundation-range-input;</pre>
14	<pre>//@include foundation-accordion;</pre>
15	<pre>//@include foundation-accordion-menu;</pre>
16	<pre>//@include foundation-badge;</pre>
17	<pre>@include foundation-breadcrumbs;</pre>
18	<pre>//@include foundation-button-group;</pre>
19	<pre>@include foundation-callout;</pre>
20	<pre>@include foundation-card;</pre>
21	<pre>@include foundation-close-button;</pre>
22	<pre>//@include foundation-menu;</pre>
23	<pre>//@include foundation-menu-icon;</pre>
24	<pre>//@include foundation-drilldown-menu;</pre>
25	<pre>//@include foundation-dropdown;</pre>
26	<pre>//@include foundation-dropdown-menu;</pre>
27	<pre>//@include foundation-responsive-embed;</pre>
28	<pre>//@include foundation-label;</pre>
29	<pre>@include foundation-media-object;</pre>
30	<pre>//@include foundation-off-canvas;</pre>
31	<pre>@include foundation-orbit;</pre>
32	<pre>@include foundation-pagination;</pre>
33	<pre>//@include foundation-progress-bar;</pre>
34	<pre>// @include foundation-progress-element;</pre>
35	<pre>// @include foundation-meter-element;</pre>
36	<pre>//@include foundation-slider;</pre>
37	<pre>@include foundation-sticky;</pre>
38	<pre>@include foundation-reveal;</pre>
39	<pre>//@include foundation-switch;</pre>
40	<pre>//@include foundation-table;</pre>
41	<pre>//@include foundation-tabs;</pre>
42	<pre>//@include foundation-thumbnail;</pre>
43	<pre>//@include foundation-title-bar;</pre>
44	<pre>//@include foundation-tooltip;</pre>
45	<pre>//@include foundation-top-bar;</pre>

Note on Twig...

Confusingly...while CKEditor is happy to grab the CSS based on the Frontend library files...IT USES THE TWIG FILES FROM THE ADMIN THEME.

Rawr.

Just make sure to copy any custom Twig you need into your admin theme.

Get it right and you'll have a true WYSIWIG experience:

sustainability as well as financial sustainability," she said. Bentley not only helps feed the families it serves – the group also assists them in monitoring and managing their finances. It also requires each family to volunteer time to the organization and eventually graduate from its program.



-



🔀 E | Format 🛛 - | Styles 🕞 I I x | 📾 🕸 🕫 🏴 | B I יי x* x₂ | 🗄 🗄 🕸 | 🖘 🛷 🖻 🗐 🖶 🖽 🗊 😡 Source

well as financial sustainability," she said. Bentley not only helps feed the families it serves - the group also assists them in monitoring and managing their finances. It also requires each family to volunteer time to the organization and eventually graduate from its program.













Another example: I add a nice thick border when you select a media item. Much easier to work with. This is in our *admin* theme:

.cke_widget_wrapper.cke_widget_block.cke_widget_selected .media {
 border: 3px solid #e77500;
 padding: 12px;

Body Format 🗸 Styles 🐳 🗾 📾 🖘 📾 🖬 🖪 🖬 🤧 🛪 23 E]= 📲 🕂 🥕 📅 🖬 🔚 🎫 🗐 🐼 Source organizations with social service organizations, for example.

Another example:

When you edit an embed, the link goes to the entity view, NOT the edit form. Who wants that? I know what it looks like, I can see it in WYSIWYG:

Let's override the JS so that it jumps right to the edit form.

Embed media	×
Selected entity	
Test video	
Align	
One: Center: Right:	
Caption	

I've overridden the "entity_embed" library in my admin theme to replace its JS:

In MyAdminTheme.info.yml:

libraries-override: entity_embed/drupal.entity_embed.dialog: MyAdminTheme/entity_embed

In MyAdminTheme.libraries.yml

```
entity_embed:
   Js:
   js/entity_embed.dialog.js: {}
   Css:
   Theme:
      ../../../modules/contrib/entity_embed/css/entity_embed.dialog.css: {}
   Dependencies:
   -  core/drupal
   -  core/jquery
```

I found where the link is created and appended /edit to the end of the href:

```
1 300%
 * Behaviors for the entityEmbedDialog iframe.
Drupal.behaviors.entityEmbedDialog = {
  attach: function (context, settings) {
    * lines 33-35 are custom, to make the edit entity link jump straight into edit mode.
    */
    $('#entity-embed-dialog-form a').not('editified').addClass('editified').attr("href", function(i, href) {
      return href + '/edit';
    }):
    $('body').once('js-entity-embed-dialog').on('entityBrowserIFrameAppend', function () {
      $('.entity-select-dialog').trigger('resize');
      // Hide the next button, the click is triggered by Drupal.entityEmbedDialog.selectionCompleted.
      $('#drupal-modal').parent().find('.js-button-next').addClass('visually-hidden');
    });
```

And Now the link in our embed editor jumps straight to the entity editor. I even stuck in a little pencil:

Embed media 🛛 🗙
Selected entity
Display as *
Right Third 🔹
BACK EMBED

Example: your editors are new to writing good alt elements.

	THE RUDDEST RECEIPTING					
		BioNanomatrix-photo3forweb.jpg Bionanomatrix photo Suspicious text: "photo"	Image	communications	05/11/17	Edit
		Joseph-Robert-Scherrer-Hertz-Foundation-Photo- Submission.jpg Alternative text missing	Image	communications	05/11/17	Edit
		Photo5_1150.jpg Fox Theater in Detroit	Image	communications	05/11/17	Edit
	A.S	Tim-Vasen-Cat-Andre-Photo-by-Warren-Rieutort- Louis_1150.jpg Timothy Vasen on stage with junior Cat Andre	Image	communications	05/11/17	Edit
		RAS-cell-photo-3-576.jpg Fruit-fly embryos (above) showed how signals at the early stage of development (red in top photo) activate genes (purple in middle photo) and pattern structures in the fly larva (bottom photo.) Suspicious text: "photo"	Image	communications	05/11/17	Edit
		20150905_OutdoorActionGroupPhotos_MC_018- 1150.jpg Outdoor Action Group Photo Suspicious text: "photo"	Image	communications	05/11/17	Edit
PL	ACE	Acton_photo-9a_162.jpg Acton	Image	communications	05/11/17	Edit

Select media to embed

Our entity browser view shows BOTH the media title and the alt text, to encourage review. Select media to embed

Bad and missing alts are now more apparent to the editors.

CONTRACTOR OF THE OWNER. BioNanomatrix-photo3forweb.jpg Bionanomatrix photo 05/11/17 Edit Image communications Suspicious text: "photo" Joseph-Robert-Scherrer-Hertz-Foundation-Photo-Submission.jpg communications 05/11/17 Edit -Image Alternative text missing Photo5_1150.jpg Edit Image communications 05/11/17 -Fox Theater in Detroit Tim-Vasen-Cat-Andre-Photo-by-Warren-Rieutort-Edit Louis_1150.jpg Image communications 05/11/17 -Timothy Vasen on stage with junior Cat Andre RAS-cell-photo-3-576.jpg Fruit-fly embryos (above) showed how signals at the early stage of development (red in top photo) activate genes 05/11/17 Edit Image communications * (purple in middle photo) and pattern structures in the fly larva (bottom photo.) Suspicious text: "photo" 20150905_OutdoorActionGroupPhotos_MC_018-1150.jpg 05/11/17 Edit Image communications * Outdoor Action Group Photo Suspicious text: "photo" Acton_photo-9a_162.jpg Edit 05/11/17 -Image communications Acton

And the view flags suspicious words (photo of, image of) and missing alt elements.

	THE ROOTS PROGRAM					
		BioNanomatrix-photo3forweb.jpg Bionanomatrix photo Suspicious text: "photo"	Image	communications	05/11/17	Edit
	S.	Joseph-Robert-Scherrer-Hertz-Foundation-Photo- Submission.jpg Alternative text missing	Image	communications	05/11/17	Edit
P		Photo5_1150.jpg Fox Theater in Detroit	Image	communications	05/11/17	Edit
	AI	Tim-Vasen-Cat-Andre-Photo-by-Warren-Rieutort- Louis_1150.jpg Timothy Vasen on stage with junior Cat Andre	Image	communications	05/11/17	Edit
		RAS-cell-photo-3-576.jpg Fruit-fly embryos (above) showed how signals at the early stage of development (red in top photo) activate genes (purple in middle photo) and pattern structures in the fly larva (bottom photo.) Suspicious text: "photo"	Image	communications	05/11/17	Edit
		20150905_OutdoorActionGroupPhotos_MC_018- 1150.jpg Outdoor Action Group Photo Suspicious text: "photo"	Image	communications	05/11/17	Edit -
PL	ACE	Acton_photo-9a_162.jpg Acton	Image	communications	05/11/17	Edit 🔻

Select media to embed



And in our view this is the rewrite code for that field (inline Twig...):

```
{% if image__alt|length < 1%}
    <em class="alert">Alternative text missing</em>
{% endif %}
```
Some Magick: Responsive Images









Quick Refresher on HTML5 Responsive Images

Responsive images let browsers pick the best fit image for both their pixel depth and window width.

A desktop browser hitting our homepage pulls **1.3**MB of images. ...a mobile browser pulls **.3**MB.

That *reeeally* helps for perceived performance on mobile.

The code looks like this:

src="/.../styles/half_1x_crop/example.jpg"
alt="Nathalie de Leon" >

Rather than a simple src, the browser gets a set of image urls to choose from, with the image file's pixel width declared inline.

<img <="" srcset="/.</th><th>640w,</th></tr><tr><td>/.</td><td>/styles/half_1x</td><td>_crop/example.jpg</td><td>960w" td=""/>			
sizes=" (m	nin-width:120em)	26vw,	
(m	nin-width:40em)	45∨w,	
		90vw"	
src="//st	tyles/half_1x_crop	/example.jpg"	
alt="Nathali	ie de Leon" >		

...and a list of breakpoints (min-widths), and how wide the image will be at each breakpoint, defined in vw units (1vw is 1% of viewport width).

<img srcset="</th"/> <th>640w,</th>	640w,		
	//styles/half_1x	_crop/example.jpg	960w"
sizes="	(min-width:120em)	26vw,	
	(min-width:40em)	45∨w,	
		90vw"	
src="/	/styles/half_1x_crop	/example.jpg"	
alt-"Nath	alio do Loon" >		

αтι

...and a fallback...the old image src syntax for legacy browsers.

Generating all this means any given bundle needs...

- Multiple image styles to generate different sized images
- At least one "Responsive image style" that knows...
 - Our theme's breakpoints
 - What width the embedded image will be at each breakpoint
 - Which image styles should be included

The Responsive Image module does this and is in core, but isn't enabled by default:

0	Back t	to site		M anage	+ Shortcuts	👤 itmaybej	ij				
Ŀ	Conter	nt	ф	Structure	Appearance	Extend	🔧 Configuration	People	Reports	Help	
		NUF		•	ennenes your com	tent with metac	iata to let other appli	ications (e.g. s	earch engines, a	iggregators)	better understand its rei
		Resp Imag	oons ge	ive ▼ Ma Ve Re	Provides an image achine name: respon ersion: 8.4.3 equires: Breakpoint, I	formatter and sive_image mage, File, Field	breakpoint mapping	s to output res	ponsive images	using the H	TML5 picture tag.

Once it's enabled you'll find its settings on the configuration tab.

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.

Responsive image styles

Manage responsive image styles.

Image toolkit

Choose which image toolkit to use if you have installed optional toolkits.

Open up the settings and you'll see it comes with two starter styles:

Responsive image styles 🕁

Home » Administration » Configuration » Media

A responsive image style associates an image style with each breal

+ Add responsive image style

LABEL	MACHINE NAME
Narrow	narrow
Wide	wide

• Leave "Type" as the default.

- Fill out the sizes field with the pattern: (breakpoints) widths, default width
- Select which image styles the browser can pick from

▼ 1X VIEWPORT SIZING []

Туре

Select multiple image styles and use the sizes attribute.

Select a single image style.

Do not use this breakpoint.

See the Responsive Image help page for information on the sizes attribute.

Sizes *

(min-width: 1290px) 325px, (min-width: 851px) 25vw, (min-width: 560px) 50 Enter the value for the sizes attribute, for example: (min-width:700px) 700px, 100vw.

Image styles

Large (480×480)
 Max 1300×1300
 Max 2600×2600
 Max 325×325
 Max 650×650
 Medium (220×220)

Thumbnail (100×100)

🔲 – None (original image) –

🗌 – empty image –

Select image styles with widths that range from the smallest amount of space this image will take up resolution screens will need images 1.5x to 2x larger.

Fallback image style *

Max 325x325

Select the smallest image style you expect to appear in this space. The fallback image style sh

T

To use the Responsive style, "Manage display" on your bundle, switch the image format to "Responsive" and pick the style from the gear:

Home » Admini	istration » Structure	Media types » <u>Ed</u>	it Image » Imag	ge			
Edit	Manage fields	Manage fo	rm display	Manage display	Manage r	noderation	
						Sh. w rov	w weights
FIELD	LABE	L 🔫	FORMAT				
🕂 Image	- Hid	den - 🔻	Blazy Responsive Image (Exclu 	image ude GIF Processing)	Responsive imag (full at small)	e style: 1/3 content column;	*
Caption	- Hid	den - 🔹 🔻	Image URL to imag	je			
Credit press	efix - Hid	den - 🔹 🔻	Plain text	•			\$

Clear cache, and then TEST. Use your browser's inspector's Network tab. Disable cache, make your browser window narrow, and reload.

You should see your smallest image appear. Expand your window past each breakpoint and you should see the other sizes fill in at the appropriate time. If not, check your "sizes" again.

Elements Console	Sources	Netwo	k Performance	e Memor,	Applicati	on »	▶ ▲ 9 :	×
🔴 🛇 🔳 🍸 View: 🃰	1 0 0	Group by fra	ame 🗌 Preser	velog 🗹 🛙	Disable cache		Offline Online	
del	Hide data l	JRLs All	XHR JS CSS	Img Media	Font Doc	WS N	Manifest Othe	r
1000 ms 20	000 ms	30	00 ms	4000 ms	50	00 ms	. =	0 ms
Name	Status	Туре	Initiator	Size	Time W	aterfall	5.00 s	
KF_DELEON_NathalieDeLeo	200	jpeg	diamonds-fla	72.5 KB	223 ms 📮			
NF_DELEON_NathalieDeLeo	200	jpeg	Other	135 KB	83 ms			

NOTE: THIS CAN GET VERY COMPLICATED.

Our

4 common crops at

6 common sizes led to

32 Image Styles and

21 Responsive Image Styles

1/2	small_6	Edit -
1/2 (full at small)	small_12_medium_6	Edit -
1/2 content column (full small)	content_column_1_2	Edit -
1/3	small_4	Edit -
1/3 content column (full at small)	content_column_1_3	Edit
2/3 (full at small)	small_12_medium_8	Edit -
16/9 1/2	small_6_crop	Edit -
16/9 1/2 (full at small)	small_12_medium_6_crop	Edit -
16/9 1/2 content column	content_column_1_2_16_9	Edit
16/9 1/3	small_4_crop	Edit -
16/9 1/3 (full very small, quarter very large)	small_12_large_4	Edit
16/9 1/3 content column	content_column_1_3_16_9	Edit -

Yeah i know that doesn't quite add up because of thumbnails and oddballs

E.g., "half width" for us could be:

- half **window** width
- half column width
- half column width on desktop, and full-width on mobile
- 16/9 crop, half window width
- 16/9 crop, half column width
- 16/9 crop, half column width on desktop and full-width on mobile

1/2	small_6	Edit
1/2 (full at small)	small_12_medium_6	Edit -
1/2 content column (full small)	content_column_1_2	Edit -
1/3	small_4	Edit -
1/3 content column (full at small)	content_column_1_3	Edit •
2/3 (full at small)	small_12_medium_8	Edit -
16/9 1/2	small_6_crop	Edit •
16/9 1/2 (full at small)	small_12_medium_6_crop	Edit -
16/9 1/2 content column	content_column_1_2_16_9	Edit -
16/9 1/3	small_4_crop	Edit •
16/9 1/3 (full very small, quarter very large)	small_12_large_4	Edit
16/9 1/3 content column	content_column_1_3_16_9	Edit •

For each we have to select relevant images from our pool of **32** possible sizes.

We'll pick 2-6 depending on the range of possible widths.

⅓ column width might only need 640px and 960px.

Full window width might need 640, 960, 1440, 1920, 2048, 2880

- 30010 Z000 16/9 2880 16/9 1440 scale 960 16/9 960 scale 1920 Large thumbnail Linkit result thumbnail Masonry rectangle (1440x720) Masonry rectangle (1920x960) Masonry rectangle (720x360) Masonry rectangle (960x480) Masonry square (1440) Masonry square (1920) Masonry square (360) Masonry square (480) Masonry square (720) Masonry square (960) Medium thumbnail Null image (1x1) RSS Enclosure Image (1280x560)
- Scale 1440

Plan ahead with a nice naming convention. I DON'T recommend "big" and "small" unless you have a very simple site.

- Our image styles are named by CROPPING / WIDTH. E.g.: Scale 1920 16/9 1024
- Our responsive image styles are named similarly, with notes for adjustments: 1/3 content column (full at small) 16/9 1/3 (full very small, quarter very large)
- Our machine names parallel our Foundation column classes: small_12_medium_6 small_12_medium_8

Deep breath

Responsiveness

Two final notes:

- 4k (3840px) image styles exceeded our server's available RAM, resulting in randomly missing images. We found 3k (2880px) to be a good compromise of performance and hi-DPI awesomesauce.
- Older iPads get janky when they try to downscale images > 2048px. We found a precisely 2048px-wide image style helped when we had *anything* larger than 2048px available.

Some Magick: Lazy Loading

Lazyloaders load a placeholder -- either the smallest version of your image or a simple spinner -- and then wait for the browser to scroll close before swapping the placeholder with the actual image.

Sounds Great Because:

Faster initial render time & less bandwidth on "bounces."

But:

The very users most likely to NOTICE are on slow connections.

Waiting to trigger download can mean they have to wait MANY TIMES: once for the initial page, and again after each scroll trigger.

Maybe use it for:

- Big images at the bottom of a very long page.
- Dynamically loaded content.

Don't use it for:

- Images only one or two flicks down. They won't finish in time.
- Lots of small images. HTML > JS when it comes to bulk processing.

We use bLazy: <u>drupal.org/project/blazy</u> which is a helper for <u>dinbror.dk/blazy</u>



Here's its config page.

This needs to be ON.

Load invisible? (We don't because we manually trigger load in JS)

How close to on-screen should it place triggers?

Home » Administration » Configuration » Media

Admin CSS

Uncheck to disable blazy related admin compact form styling, only if not compatible with your admin the

Support Responsive image

Check to support lazyloading for the core Responsive image module. Be sure to use Blazy formatter to ha

One pixel placeholder

By default a one pixel image is the placeholder for lazyloaded Responsive image. Useful to perform a lot accordingly to avoid layout reflow since Aspect ratio is not supported with Responsive image yet. Disablir

Load invisible

Set to true if you want to load invisible (hidden) elements.

Offset

800 px

The offset controls how early you want the elements to be loaded before they're visible. Default is 100, so 10

Save viewport offset delay

50 ms

Delay for how often it should call the saveViewportOffset function on resize. Default is 50ms.

SAVE CONFIGURATION

Let's edit an image's view mode.

Blazy creates a new formatter. Switch to it:

FIELD	FORMAT	
Image	- Hidden - 🗸	✓ Blazy
Disabled		Image (Exclude GIF Processing) Image
Label/Name	Above 🔻	URL to image Plain text

In the image's settings, pick your image or responsive image style. Rebuild cache.

FIELD	LABEL	FORMAT			
🕂 Image	- Hidden - 🗸	Format settings: Blazy			
		Image style - None		Thumbnail style	- None -
		Responsive image 16/9 1	/3 (full very smal		
			MEDIA S	WITCHER	
		Media switcher - None	9 -		
			CAPTIO	N FIELDS	
		Title		Δlt	

To test, play with the throttling speed in your browser's inspector Network tab. You may want to create a custom super-throttled setting.



You should see it images fill in now.



Campus-wide bake-off delivers sweet treats and goodwill Entrepreneurship in the life sciences is topic of TigerTalks in the City Muldoon to receive Her Majesty's Gold Medal for Poetry from Queen

Note you can theme the preloader animation and add height hints.

```
.media--loading {
 background-color: $light-gray;
}
.media--loading::before {
   background-color: $medium-gray;
   width: 18px;
   height: 18px;
   animation: rotateplane 4s infinite ease-in-out;
   opacity: .5;
}
.orbit .media--loading img {height:40%; display: none;}
//some things need a height hint.
.news-teaser .media--loading .b-responsive, .flashcard .media--loading .b-responsive {
 padding-top:56.5%;
 height: 0;
```

Laziness

And you can trigger LazyLoads manually (say, on asynchronously loaded content or slideshow slides) by initiating a Blazy() object and pointing it at a JS object. This JS is triggered for us when someone changes a filter on our homepage:

```
jQuery(homepageActive).removeClass('hidden').toggleClass('active').each(function(){
    var bLazy = new Blazy();
    bLazy.load(jQuery(this));
    setTimeout(function(){
        jQuery(homepageActive).find('.media--loading').removeClass('media--loading');
    }, 51);
});
```

...documentation is at <u>dinbror.dk/blazy/</u> but <u>bLazy.load()</u> is all I've ever needed.

The last slide

- Official D8 Media Guide: <u>gitbook.com/book/drupal-media/drupal8-guide</u>
- Roadmap for Media in Core: <u>drupal.org/project/ideas/issues/2786785</u>
- Type Provider Modules: <u>drupal.org/project/media_entity</u>



I'm @itmaybejj on Drupal Slack.

See you at the afterparty.

Cut for time: content choreography previews

Our theme crops images differently for different screen aspect ratios; anywhere from 16x9 to 3:1. Our editors found this very hard to plan for.



Last cool editorial thing: crop previews

Now our editors can choreograph which zone to crop towards (top, middle, bottom).

As they play with the settings, the preview window shows both extremes in a pale letterbox: CURRENT SELECTION



JS in our admin theme applies the name of the crop target as a class to the container:

```
jQuery(document).ready(function() {
```

```
var tonyaSimulateLastCrop = ";
```

```
function tonyaSimulateCrop() {
```

jQuery('.thefield').removeClass(tonyaSimulateLastCrop).addClass(jQuery('.field--name-field-news-cover-crop select').val());

tonyaSimulateLastCrop = jQuery('.field--name-field-news-cover-crop select').val();

```
}
```

jQuery('.field--name-field-news-cover-crop select').change(function() { window.setTimeout(tonyaSimulateCrop(), 100)

});

```
tonyaSimulateCrop();
```

});

CSS in our admin theme nicely animates a generated ::before and ::after accordingly:

```
.thefield .media {
 width: 100%; height: 0; padding-top: 56.25%; overflow: hidden; position: relative;
margin-bottom: 1rem;}
.thefield details .media img {
   position: absolute; top: 0; width: 100%;}
.thefield details .rendered-entity input {display: inline-block; }
.thefield details .media::before, .thefield details .media::after {
   content: " "; z-index: 10; top: 0; position: absolute; display: block;
   width: 100%:
  height: 21.5%;
   background: rgba(255,255,255,.3);
   border-bottom: 1px solid rgba(255,255,255,.75);
.thefield.bottom details .media::after {
   top:auto; bottom:0; border-top: 1px solid rgba(255,255,255,.75); border-bottom:0;
.thefield.bottom details .media::after, .thefield.top details .media::before { height:0;}
.thefield.bottom details .media::before, .thefield.top details .media::after { height: 43%;}
```
Bonus: Entity Browser Configuration



What? You want to be able to embed a bundle?

The actual embed buttons are added under Configuration. Add one.

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PEOPLE	PEOPLE										
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EMBED B	UTTON	EMBED TYPE	ICON	OPERATIONS
Node		Entity	E	Edit -

Editing...

Select which media bundles and view modes should be available.

Edit embed button riangle

Home » Administration » Configuration » Content authoring » Embed buttons

Lunci

Media

Machine name: media

The human-readable name of this embed button. This text will be displayed when the user hovers over the CKEditor button.



Choose File No file chosen

Icon for the button to be shown in CKEditor toolbar. Leave empty to use the default Entity icon.

Save <u>Delete</u>

- Go to "Text formats and editors"
- Add the embed button to the toolbar
- Enable "Display embedded entities."

Full HTML ☆



Clear Cache...

If all is well you'll now have a basic Embed button on your node edit form that pops up a simple search for any media items.



"But I wanted a nice thumbnail browser," you say. You need a view.

You can make your own, or base yours on the **Media page** view. Add an **Entity Browser** display to the view (or duplicate it and make your own) and add an **"Entity browser bulk select form**" to the view.

Media	media					Page (/admin/content/media)	Edit	•	
People	user_admin_people	Find a site.	and ma	nage people interacting wi	th your	Page (/admin/people)	Disable Delete		
Displays Media* Entity browser*	+ <u>Add</u> Attachment		Add fr	old series of the series of th	Categ – Al	jory - V		×	
Display name: Entity browse	Block Embed	- Vn		TITLE	CATEGORY	DESCRIPTION			
TITLE Title: Media	Entity Reference Entity browser Feed			Entity browser bulk select form	Media	Add a form element that lets you use a view as a bab browser.	ise to select entities in ent	ity	
FORMAT Format: Table Settings	Page		Selecter	a: Entity prowser bulk select form	Cancel				

Now we need to assign this view to an entity browser.

Go to config \rightarrow Content Authoring \rightarrow Entity Browsers and add a browser.

Play with the display plugin options if your modal never appears.

General information rianglephi

Home » Administration » Configuration » Content authoring » Entity Browsers

General information » Display » Widget selector » Selection display » Widgets

ENTITY	BROWSER
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Media Browser

Machine name: media_browser [Edit]

Entity Browser creation instructions

This is a multi-step form. In this first step you need to define the main characteristics of the Entity Browser (in other work the following steps of this wizard, each individual plugin can be configured, when necessary.

You can find more detailed information about creating and configuring Entity Browsers at the official documentation.

Display plugin *

Modal

Choose here how the browser(s) should be presented to the end user. The available plugins are:

- iFrame: Displays the entity browser in an iFrame container embedded into the main page.
- Modal: Displays the entity browser in a modal window.
- Standalone form: Displays the entity browser as a standalone form. Only intended for testing or very specific use ca

Widget selector plugin *

Tabs 🔻

In the last step of the entity browser configuration you can decide how the widgets will be available to the editor. The available

- Drop down widget: Displays the widgets in a drop down.
- Single widget: Displays only the first configured widget. Use this if you plan to have only one widget available.
- Tabs: Creates horizontal tabs on the top of the entity browser, each tab representing one available widget.

Add a "View" widget and select your view.

Widgets 🟠

Home » Administration » Configuration » Content authoring » Entity Browsers » Edit Entity browser General information » Display » Widget selector » Selection display » Widgets

Add widget plugin View

The available plugins are:

- Upload: Adds an upload field browse 's widget.
- View: Uses a view to provide entity listing in a browser's widget.
- Upload images: Upload widget that creates it edia entity images.

FORM	OPERATIONS
	Submit button text
+ Label (View)	Select entities
	Automatically submit selection
view	View : View display *
	✓ - Select a view -
	Media Browser : Entity browse
Previous Finish	

Save that.

Now we need to go BACK to our Embed button and tell it to use this new Entity Browser:

(Config \rightarrow Authoring \rightarrow Embed buttons)

Media bundle

🗹 Image

🗹 Video

If none are selected, all are allowed.

Allowed Entity Embed Display plugins

Entity ID

🗌 Label

🗌 Thumbnail

Column Width

If none are selected, all are allowed. Note that these are the plugins which are allowed for this entity type, all of these



Icon for the button to be shown in CKEditor toolbar. Leave empty to use the default Entity icon.



Delete

Huzzah! Our modal!

Now when you click embed in WYSIWYG you have a nice browser with some default filters.

Play with the view as needed to make this nice.

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Sel	lect						
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Se	elect entities						