

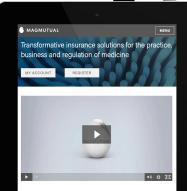
Managing Images in Large Scale Drupal Websites

Demo site is ~/Sites/Docker/drupal8

Title

Lorem ipsum





An Evolving Brand

Healthcare is constantly changing, and so are we. MagMutual isn't like traditional medical malpractice insurance providers. Not only do we offer more – including flexible, customized coverage options for the practice, business and regulation of medicine – we do so much more.

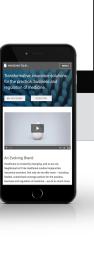


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Healthcare is constantly changing, and so are we. MagMutual isn't like traditional medical malpractice insurance providers. Not only do we offer more – including flexible, customized coverage options for the practice, business and regulation of medicine – we do so much more.

We adapt, grow and innovate in order to stay ahead of the challenges you face. No matter what happens, we'll be ready to protect you, support you and make you stronger.

Discover the meaning of our new logo \rightarrow





- 1. Taking Inventory of Images
- 2. Planning images usage
- 3. Art Direction is the exception
- 4. <picture> tag
- 5. Image Styles & Responsive Image Styles
- 6. Demo
- 7. Q&A

About Mediacurrent

Who We Are

Our people our impelled to constantly improve technology for our clients.



Our Mission

To bring together the most talented team members to provide world-class solutions for the web.



Mario Hernandez

Head of Learning





iMarioHernandez

• Over 10 years of Drupal and Front-End Experience

- Trainer and Speaker
- Co-Host of Mediacurrent's Open Waters Podcast



Images and media in general are a critical part of a website. Planning and executing a solid process for handling image styles, responsive image styles and images configurations leads to better images/media management long term.

Properly managing images on your website results in performance improvements among other benefits.

This Session is For

Site Builders

The principles covered in this talk can be implemented in Drupal by experienced site builders. When well executed, these principles improve maintenance and performance.

Developers

Fully understanding how to properly manage images and media on a website is a critical part of being a developer. This knowledge make is possible for knowing what technique to use given the requirements.

Content Managers

Content managers should demand a better user experience when dealing with media. Principles discussed in this talk facilitate a better approach for providing the right images at any time.

Learning Objectives

Objective 1

Learn how to serve the right image at all times and to all devices.

Objective 2

Learn the two ways in which images are served on a website.

Objective 3

How to effectively manage image styles and responsive image styles.

Taking Inventory of Images

TEXT	VIDEO	PRESENTATION	TEXT
BLOG	PRESENTATION	MAIN	CATALOG
NEWS	PHOTO GALLERY	NEWS	ANALYTICS
STRUCTURE	ABOUT WORK	USER	MASSAGE
NEWS	WEB FORM	HOME	PORTFOLIO









It's a city of contrasts - old and new, cutting edge and laid-

back, urban and pastoral. This is a city in constant evolution. It's a city of contrasts - old and new, cutting edge and laid-back, urban and pastoral. This is a city in constant evolution.

Add such iconic sights as the Golden Gate Bridge, Fisherman's Wharf, Alcatraz Island and intriguing neighborhoods as individualistic as they are dynamic, and San Francisco becomes captivating, creative and truly unique.

Sightseeing the logos

San Empirica is a place of landmarks and shoto proportunities, not the least of which San Francisco is a proce of anomenia and proto opportunities, not the least of which is the Golden Gate Bridge. Crossing the fornous suspension bridge that spans San Francisco Bay via bicycle, by car or on forti is a must. There are countless sights that add to San Francisco's allure, especially for first-time visitors:

 Take a ferry to Alcatraz Island, the site of a former federal penitentiary in the middle of the boy.

· Marvel at the winding, hillside Lambard Street lined with flower gordens,

Stroll Fishermon's Wharf, with its restaurants and attractions

· Have a picnic facing the colorful Victorian houses near Alamo Square known as "the

Chattooga River - Whitewater Rafting



[1:04min] By: South Carolina Tourism



unities for outdoor activities for all tastes.

Outdoor fun inland...

Adventure and water sports abound throughout the state. Thanks to the mild weather, or fish in the large lakes set in historic woods and protected areas. A few minutes from Columbia, the state capital, we find Lake Murray, which offers beautiful scenery and

surrounded by breathtoking nature.

South Carolina's state parks, including Paris Mountain State Park, are ideal destinations for mountain bike lovers and hikers, with trails and routes of varvino levels of diffiof lush vegetation in urban areas of historic cities like Greenville.

perience at the BMW Performance Center in Greer where qualified instructors w



11:04minI By: South Carolina Tourism

... And on the coast!

My journey continued in the fomous towns that make up the coast. Many water sports for all levels and tastes are available, from stand-up paddle boarding, to fishing on the high seas, to parasailing to kayaking. During my kayak trip, I had a unique and unexpected encounter: I found myself paddling with a pair of curious and playful dolphins

More information Keyeking in South Carolina p

More information -

Chattooga River of Loke Murray

Paris Mountain State Park

City of Greenville re

You may enjoy -----

US National Parks





Route distance

Suggested time: 4 days

17490 km

Home to volcasic visitos, an abundance of earbords and vibrast urbas areas: a read trip is an ideal way to catch all of the amazing sights for which this region is famaus. In the spon of just a few days, you can experience everything from wine tasting to whale watching to sightseeing- all while enjoying the freedom



Portland, Oregon

Start your tour of the Pacific Northwest by flying into Portland, Oregon's in Airport. Here, rent a core and stort explaining this wright US, city, which draws there and cuture lends in draws. Final up with a pastry fram Vaedoo Deugheut in Cutors and rotational later. and a fair-trade latte from Stumptown Coffee Floasters befare you explore the city. Head to the Lan Su Chinese Garden to witness an ancient tra ceremony or to the Part and Art Muteum to view the more than 1.800 impanese works. Don't forget to peruse Powell's City of Bocks (which covers a full city block and holds more than 1.5 million the city's waterfront park hosts the Portiand Saturday Market, a massive open-air crafts market where you can surchase everything from clafting to delicious treats.





You may enjoy



Visiting the Columbia Gorge





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tripadvisor

Top 10 things to do

A LOUGH

00 0000 245 reviews

ipAdvisor Travel Rating

Golden Gate Bridge

(0.0.0.0.) 382 reviewers

TripAdvisor Travel Rating

Alcotroz

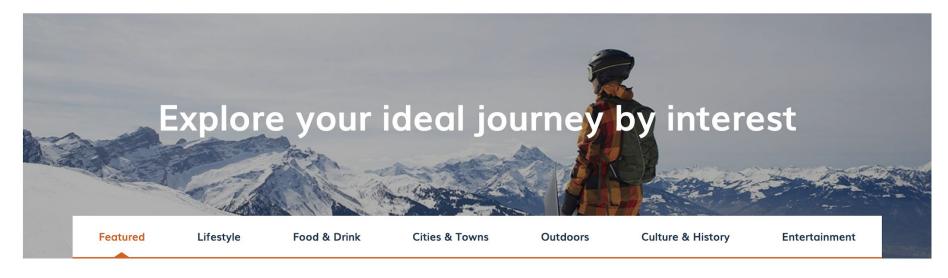


If you love cars and speed, fasten your seatbelts and get ready for a unique driving ex-

you test and improve your driving skills and make you feel like a professional driver!

Chattooga River --- Whitewater Rafting





Trips 🚑



Trip - 2 weeks +

The Yellowstone Loop: 11 Stops You Must Make on an Epic Western Road Trip



Trip - 2 weeks + Craft Beer Trail



Trip - 6 days Pacific Coast Highway Road Trip



Trip - 1-2 weeks Southwest Landscapes

Image Styles



Images Styles: Best Practices

- Take full stock of entire site image requirements (if possible)
- Avoid creating image styles before fully understanding the images requirements
- Whenever possible build reusable image styles (no one offs)
- Aspect ratios are your friend
- Use descriptive names but not directly associated to a specific image or pages on the site
- Use multipliers (i.e. 2x)

Images Styles: Naming Conventions

Bad name	Good name			
Homepage Article Image	16:9 Max 720px			
<pre>homepage_article_image</pre>	16_9_max_720			

- Too vague
- Lacks dimensions or aspect ratio info
- Too restrictive

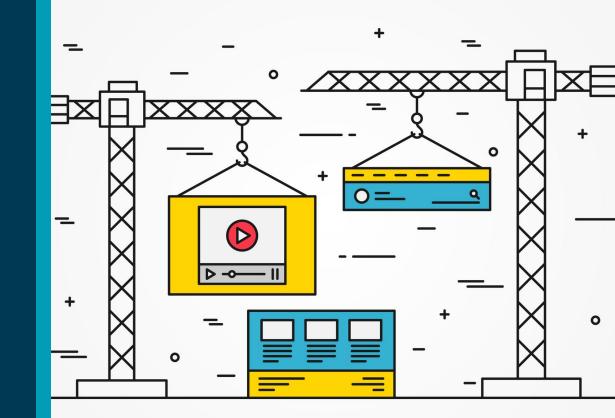
- Can be used across entire site where aspect ratio and dimensions are met
- Not associated with specific page or image
- Reusable

Images Styles: Naming Conventions

Bad name	Good name			
Home Image Thumb Wide	4:3 Max 300px			
<pre>home_image_thumb_wide</pre>	4_3_max_300			

- Restricted to only one image type
- Restricts usage to only homepage
- Lacks dimensions or aspect ratio info
- Can be used on any image with a 4:3 aspect ratio that meets size requirements
- Not restricted to homepage
- Potentially reduces number of image styles

Responsive Image Styles



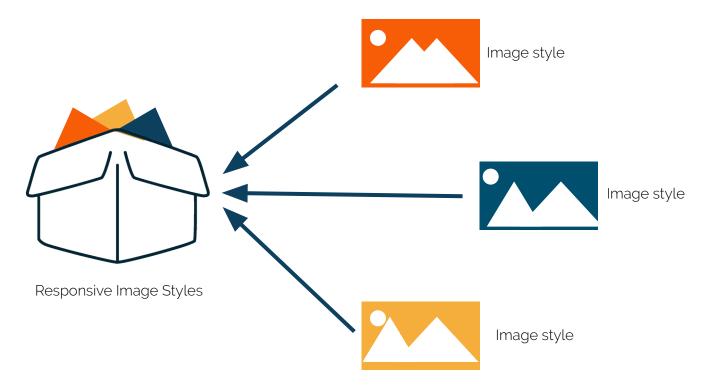
WEBSITE BUILDER CONC

Responsive Images Styles: Not the same as Image Styles

- Take full stock of entire site image requirements (if possible)
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- Use multipliers (i.e. 2x)

Responsive Images Styles:

Not the same as Image Styles



Responsive Images Styles: *Naming conventions*

- Not as strict as naming image styles
- Image style names should target images types
- RESPONSIVE image styles names should target Use Cases

Example:

- Bad: Homepage Gallery Images 1600x750
- Good: Image Gallery or Gallery

Responsive Images Styles: Naming conventions



16:9 Max 460px



16:9 Max 960px



16:9 Max 1400px



Art Direction



Art Direction



Art Direction: cture> Element

<picture>

<source media="(max-width: 720px)" srcset="mobile.jpg, mobile-2x.jpg">
 <source media="(max-width: 1200px)" srcset="tablet.jpg, tablet-2x.jpg">
 <source srcset="desktop.jpg, desktop-2x.jpg">
 <img src="mobile.jpg, mobile-2x.jpg"
 alt="Example of the picture element">
 </picture>
</picture>

Art Direction: cture> Element

<picture>

```
<source media="(min-width: 1200px)" srcset="desktop.jpg, desktop-2x.jpg">
  <source media="(min-width: 720px)" srcset="tablet.jpg, tablet-2x.jpg">
  <source srcset="mobile.jpg, mobile-2x.jpg">
  <ing src="mobile.jpg, mobile-2x.jpg"
    alt="Example of the picture element">
  </picture>
</picture>
```

Browser Support

IE	Edge *	Firefox	Chrome	Safari	Opera	iOS Safari *	Opera Mini *	Android Browser	Opera Mobile	Chrome for Android	Firefox for Android	UC Browser for Android	Samsung Internet	QQ Browser	Baid Brow:
		2-33	4-36		10-23										
	12	³ 34-37	¹ 37	3.1-9	2 24	3.2-9.2									
6-10	13-81	38-77	38-81	9.1-13	25-67	9.3-13.3		2.1-4.4.4	12-12.1				4-11.2		
11	83	78	83	13.1	68	13.5	all	81	46	81	68	12.12	12.0	10.4	7.1
		79-80	84-86	14-TP		14.0									

Identifying the Gap

Variable	Things developers know during development	Things the browser knows when rendering images
Viewport dimensions	NO	YES
Image size relative to viewport	YES	NO
Screen density	ΝΟ	YES
Images dimensions	YES	NO

Switch Resolution (most cases)





Letting the Browser do the Work

Letting the Browser do the Work

<img sizes="(min-width: 720px) 50vw, 100vw"
 srcset="small.jpg 720w, medium.jpg 1200w, large.jpg 1900w"
 alt="Everything is awesome!" />

Rendering





Letting the Browser do the Work

<img sizes="100vw"
 srcset="small.jpg 720w, medium.jpg 1200w, large.jpg 1900w"
 alt="Everything is awesome!" />

Rendering



Closing the Gap

Variable	Things developers know during development	Things the browser knows when rendering images
Viewport dimensions	ΝΟ	YES
Image size relative to viewport	YES	NO YES! via sizes
Screen density	NO	YES
Images dimensions	YES	NO YES! via srcset

Documenting Image Styles



Name	Machine Name	Aspect Ratio/Dimensions	Usage				
Hero Large (1600)	hero_large	Max width1600px with auto height	This image style can be used on most hero images as well as large banners on desktops.				
Hero Large 2x (3200)	hero_large_2x	Max width 3200px with auto height	This is the	This is the high resolution (retina version) of image style in previous line.			
Hero Medium (1200)	hero_medium	Max width 1200px with auto height	-	is image style can be used on most hero images as well as large banners small desktops or tablets.			
Hero Medium 2x (2400)	hero_medium_2x	Max width 2400px with auto height	This is the	high resolution (retina version) of image style in previous line.			
Hero Small (768)	hero_small	Max width 768px with auto height	Max width 768px with auto height This image style is to be used on mobile devices f images.				
Hero Small 2x (1536)	hero_small_2x	Max with 1536px with auto height	high resolution (retina version) of image style in previous line.				
Rectangular 768px	rectangular_768px	Max width of 768px with auto heigh	This image style can be used on content-cards that have a horizontal layout usually rectangular.				
Rectangular 2x 1536px	rectangular_1536px	Max width of 1536 with auto height		This is the high resolution (retina version) of image style in previous line.			
Rectangular 450px	rectangular_450px	Max width of 450px with auto heigh		mage style can be used on content-cards that have a horizontal layout ly rectangular.			
Rectangular 2x 900px	rectangular_900px	Max width of 900px with auto heigh This		s the high resolution (retina version) of image style in previous line.			
Responsive Image Sty	rles						
Name	Machine Name	Usage		Notes			
Hero or Banner	hero_or_banner	To be used on any hero or large banner imag	je	These images only have a width specified. Height is auto calcu image being uploaded.			
Square Image	square_image	Any image with aspect ratio of 1:1 (square).		Max width of large image style is 768px with a 2x equivalent of 18			
Rectangular Auto Height	rectangular	Any horizontal/rectangular image that has no requirement.	o height	Max width of rectangular image style is 768px with a 2x equivaler			
Thumb	thumb	Intended use is for product thumbnails		Max width of image is 120px with 2x equivalent.			

Resources

Responsive Images 101 - 9 Part Series

https://cloudfour.com/thinks/responsive-images-101-definitions/

Srcset and Sizes http://ericportis.com/posts/2014/srcset-sizes/

Responsive Images in Drupal using srcset and sizes

https://chromatichq.com/blog/responsive-images-drupal-8-using-srcset

The unexpected power of Viewport unit in CSS

https://www.lullabot.com/articles/unexpected-power-of-viewport-units-in-css

Image Widget Crop Module (Video tutorial)

https://www.youtube.com/watch?v=lvjgMEEAs6s



Thank you!

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