

R E S P O N S I V E I M A G E S

U N D E R C O N T R O L



C R I S T I N A C H U M I L L A S

D E S I G N E R & D R U P A L F R O N T E N D

 @chumillas
 ckrina

 **oymbra**
drupal dreamers

RESPONSIVE IMAGES

- THE BASICS**
- RESPONSIVE IMAGES IN DRUPAL**
- ART DIRECTION**
- WYSIWYG**

A V E R A G E

PAGE WEIGHT

2016

2,48Mb +10%

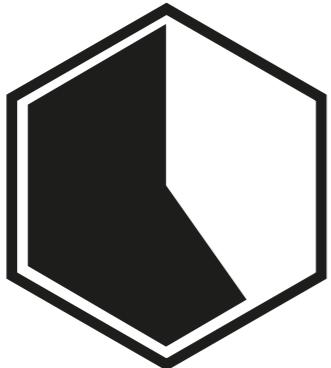
2015

2,26Mb +16%

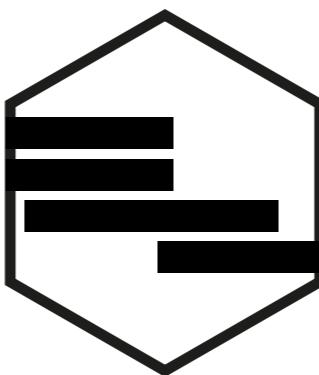
2014

1,95Mb +15%

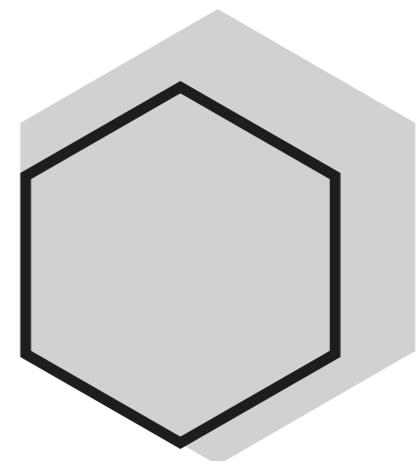
FACTS



61%
web traffic



ASYNCHRONOUS
request



TOO BIG
for the device

A grayscale landscape photograph showing a winding road that disappears into a misty distance. The road is framed by mountains on either side, creating a sense of depth and journey.

DELIVER THE
HIGHEST QUALITY
IMAGE SUPPORTED
AND NOTHING MORE.



T H E B A S I C S

SCALED IMAGE



Variables known by:	AUTHOR when she's writing the code?	BROWSER when it's loading the page?
viewport dimensions	x	YES
image size relative to the viewport	YES	YES via sizes!
screen density	x	YES
source files' dimensions	YES	YES via srcset!

SOURCE <https://ericportis.com/posts/2014/srcset-sizes>

SCALED IMAGE

```
<img  
    srcset=“large.jpg 1440w,  
           medium.jpg 960w,  
           small.jpg 480w”  
  
    sizes=“(min-width: 36em) 33.3vw,  
           100vw”  
  
    src=“medium.jpg”  
  
    alt=“A road”>
```

W → WIDTH IN PIXELS

<img

srcset="large.jpg	1440w, (1440px)
medium.jpg	960w, (960px)
small.jpg	480w" (480px)

sizes → CSS MEDIA QUERIES

```
<img  
    srcset="large.jpg 1440w,  
           medium.jpg 960w,  
           small.jpg 480w"  
  
    sizes="(min-width: 36em) 33.3vw,  
           100vw"
```

```
image {  
    width: 100vw;  
}  
@media (min-width: 36em) {  
    width: 33.3vw;  
}
```

SCALED IMAGE

<img

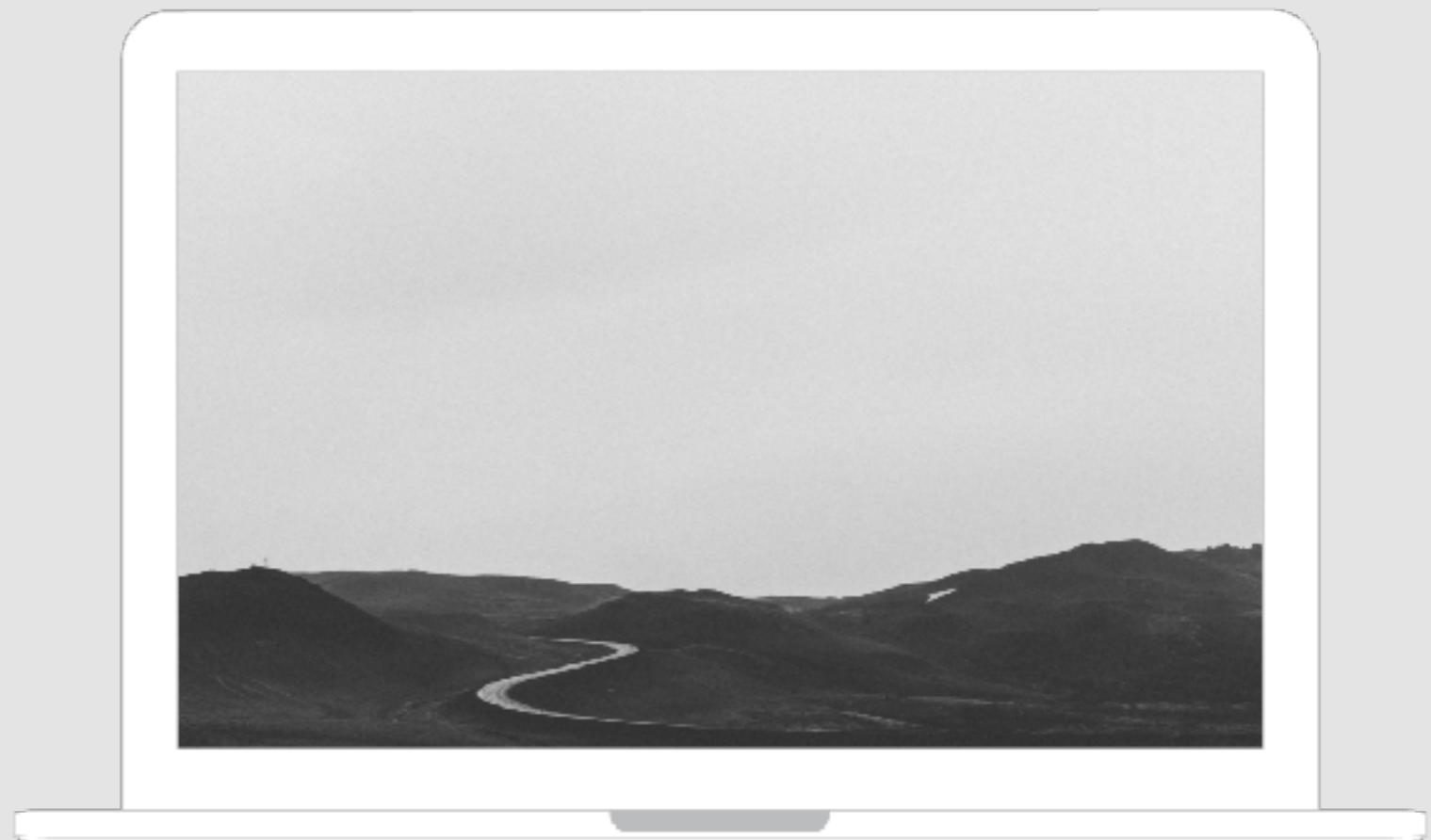
srcset=“large.jpg 1440w,
medium.jpg 960w,
small.jpg 480w”

sizes=“(min-width: 36em) 33.3vw,
100vw”

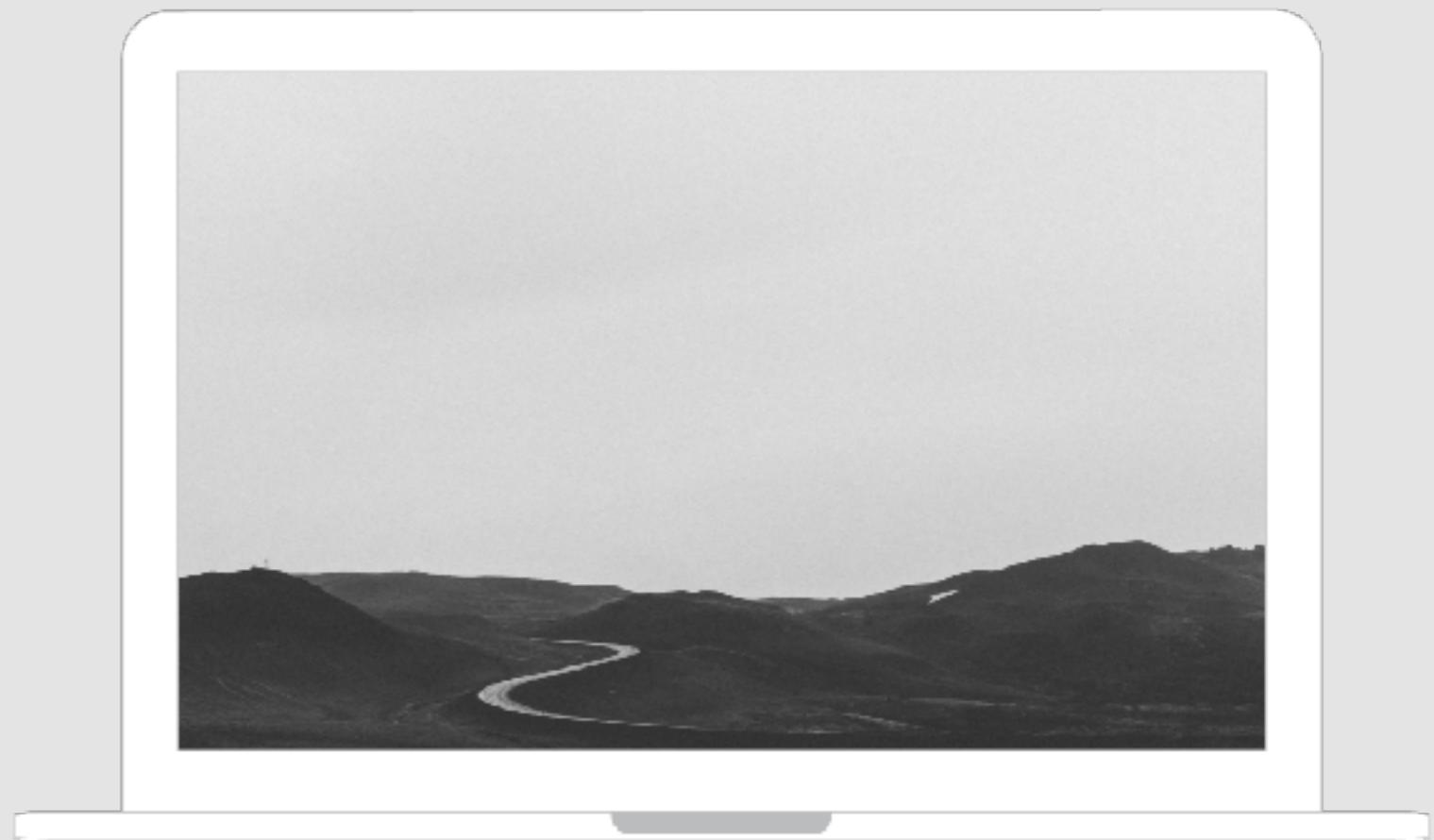
src=“medium.jpg”

alt=“A road”>

S C A L E D I M A G E S



ART DIRECTION



<picture>

```
<picture>

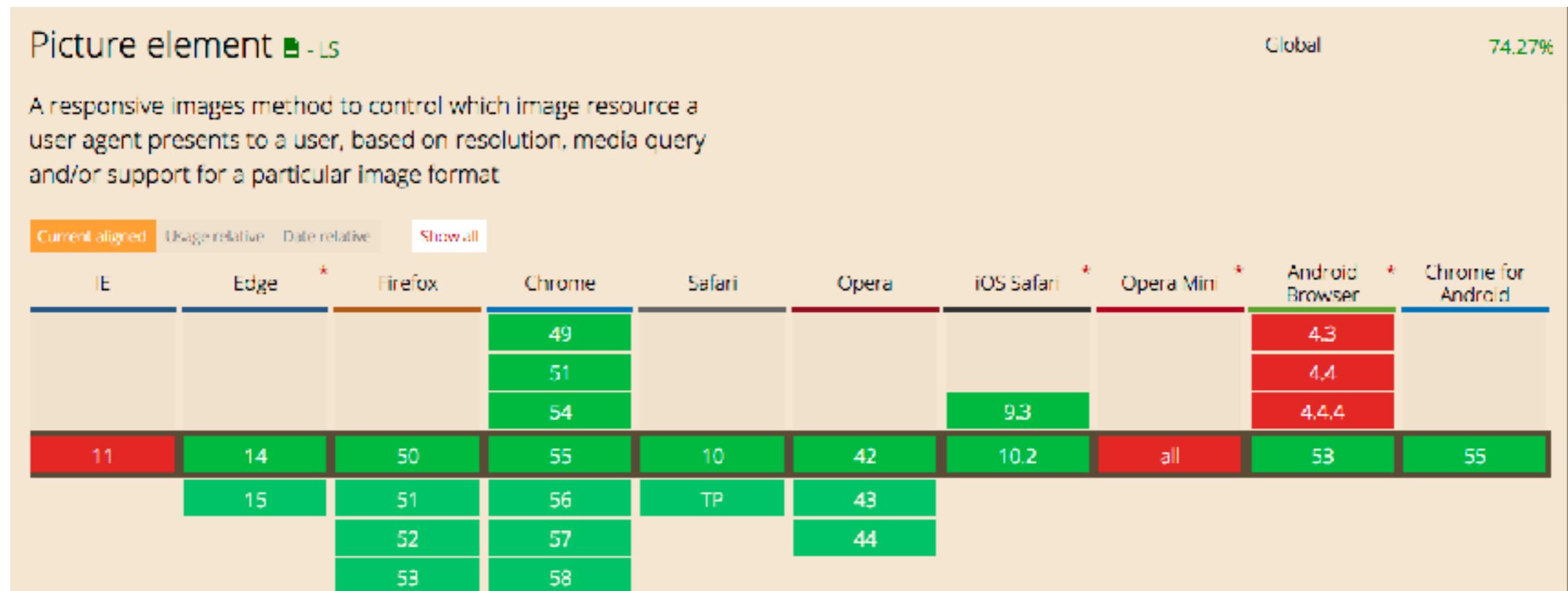
  <source srcset="image-small.jpg 1x,
            image-small2x.jpg 2x"
          media="(min-width: 0px) and
                (max-width: 29.99em)">

  <source srcset="image-big.jpg 1x,
            image-big2x.jpg 2x"
          media="(min-width: 30em)">
          sizes="(min-width: 30em) 33vw">

</picture>
```

BROWSER SUPPORT PICTURE



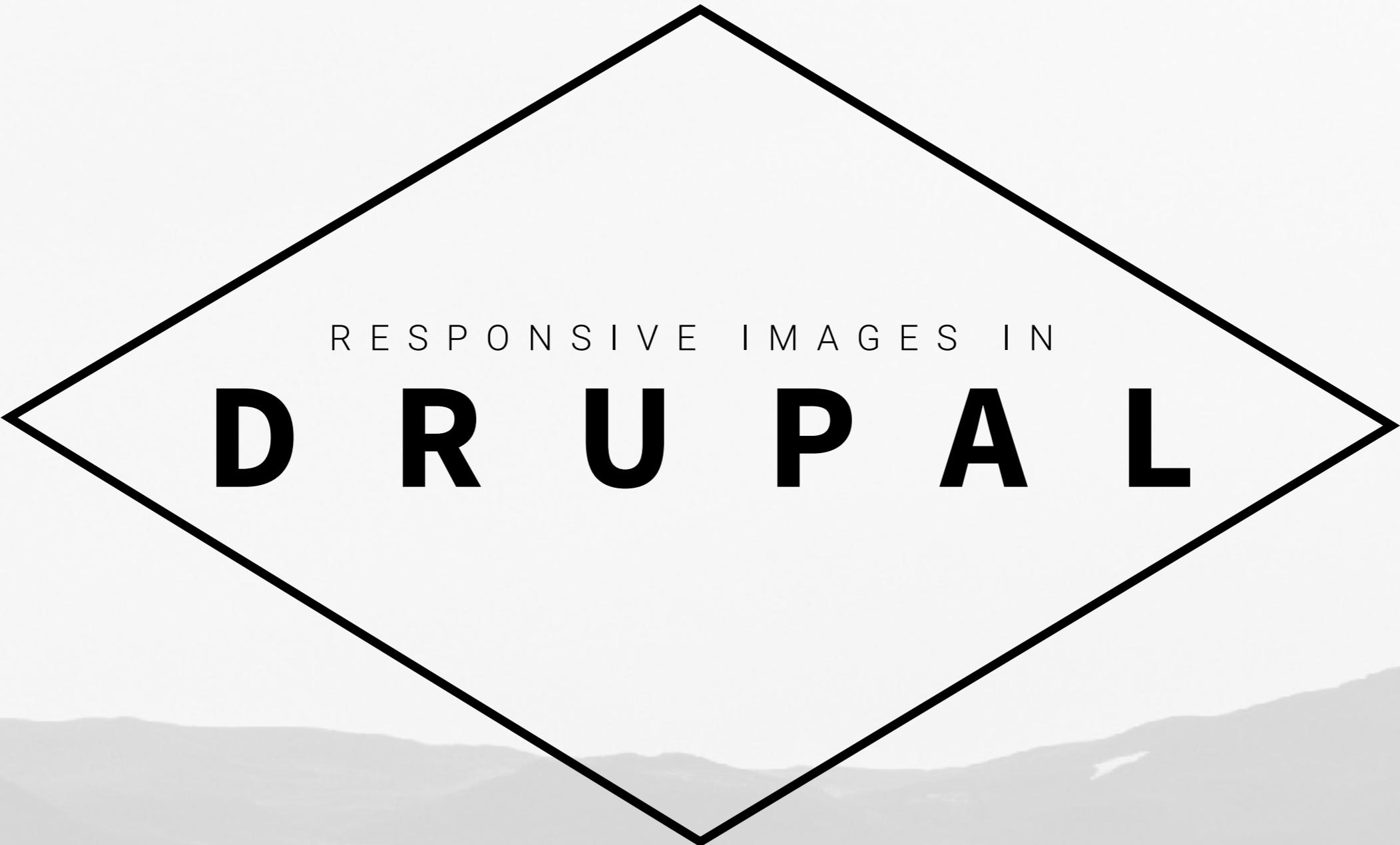
Same for `srcset` and `sizes`

B R O W S E R S U P P O R T

PICTUREFILL

<http://scottjehl.github.io/picturefill/>

A R E S P O N S I V E I M A G E P O L Y F I L L



RESPONSIVE IMAGES IN

DRUPAL

D R U P A L 7

RESP_IMG > PICTURE BREAKPOINT

COMMITERS: Jelle_S, attiks,...

ADAPTIVE IMAGES AIS (ADAPTIVE IMAGE STYLES)

CLIENT-SIDE ADAPTIVE IMAGE

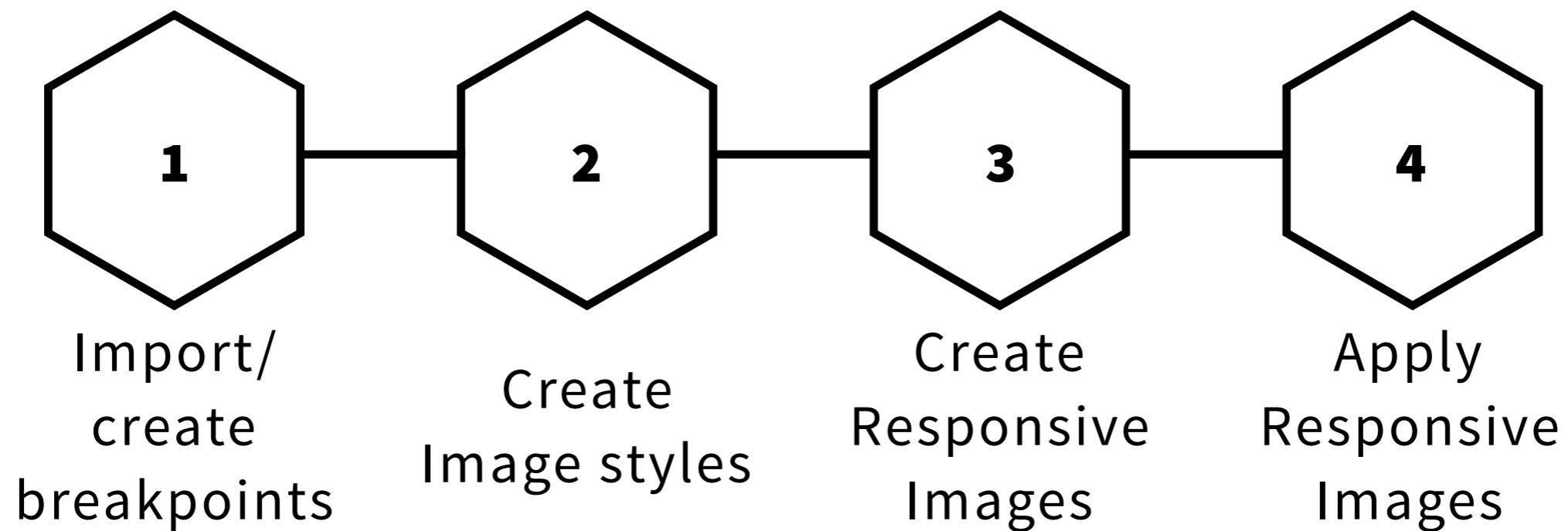
M O D U L E S

R E S P O N S I V E I M A G E S (Picture)

— **B R E A K P O I N T**

— Image, File, Field

PROCESS



W H E R E B R E A K P O I N T S

1

THEMES

```
└ themes
  └ bartik
    └ color
    └ config
    └ css
    └ images
    └ templates
      └ bartik.breakpoints.yml
      └ bartik.info.yml
      └ bartik.libraries.yml
      └ bartik.theme
      └ logo.svg
      └ screenshot.png
```

MODULES

```
└ toolbar
  └ css
  └ js
  └ src
  └ templates
  └ tests
  └ toolbar.api.php
  └ toolbar.breakpoints.yml
  └ toolbar.info.yml
  └ toolbar.libraries.yml
  └ toolbar.module
  └ toolbar.permissions.yml
  └ toolbar.routing.yml
  └ toolbar.services.yml
```

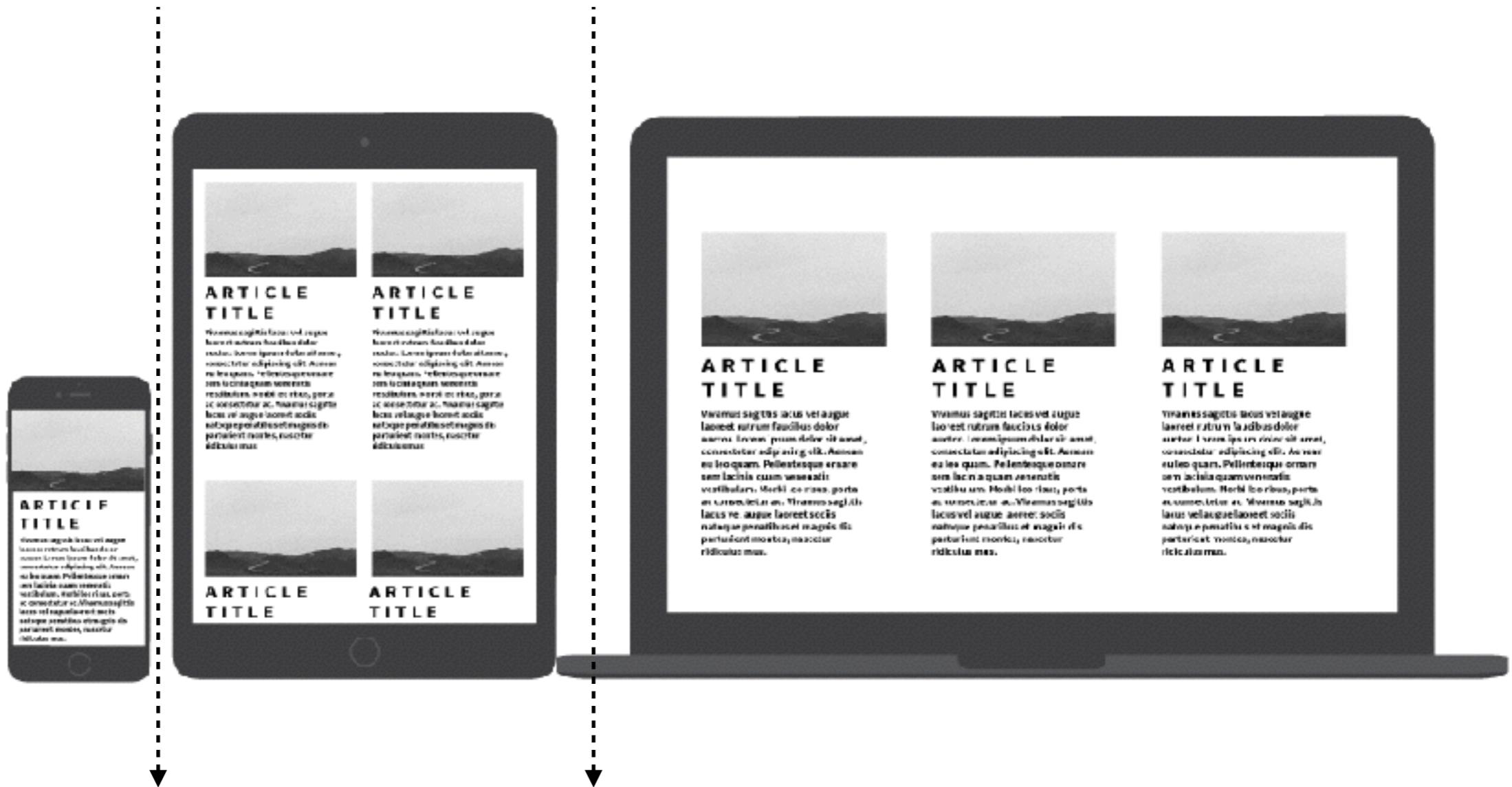
W H A T A R E
B R E A K P O I N T S

1

```
@media all and (min-width: 851px)  
{ /*CSS*/ }
```

```
bartik.mobile:  
  - label: mobile  
  - mediaQuery: ''  
  - weight: 0  
  - multipliers:  
    - 1x  
bartik.narrow:  
  - label: narrow  
  - mediaQuery: 'all and (min-width: 560px) and (max-width: 850px)'  
  - weight: 1  
  - multipliers:  
    - 1x  
bartik.wide:  
  - label: wide  
  - mediaQuery: 'all and (min-width: 851px)'  
  - weight: 2  
  - multipliers:  
    - 1x
```

IMAGE STYLES



(min-width: 480px)

(min-width: 830px)

IMAGE STYLES

PLAN



830px

-40px margins

-20px gutter

770px/2 images

385px

IMAGE STYLES

PLAN

240px
+25%

300px
+25%

385px
+25%

480px
+25%

240px
300px
385px
480px

~~240px~~
~~300px~~
~~385px~~
~~480px~~

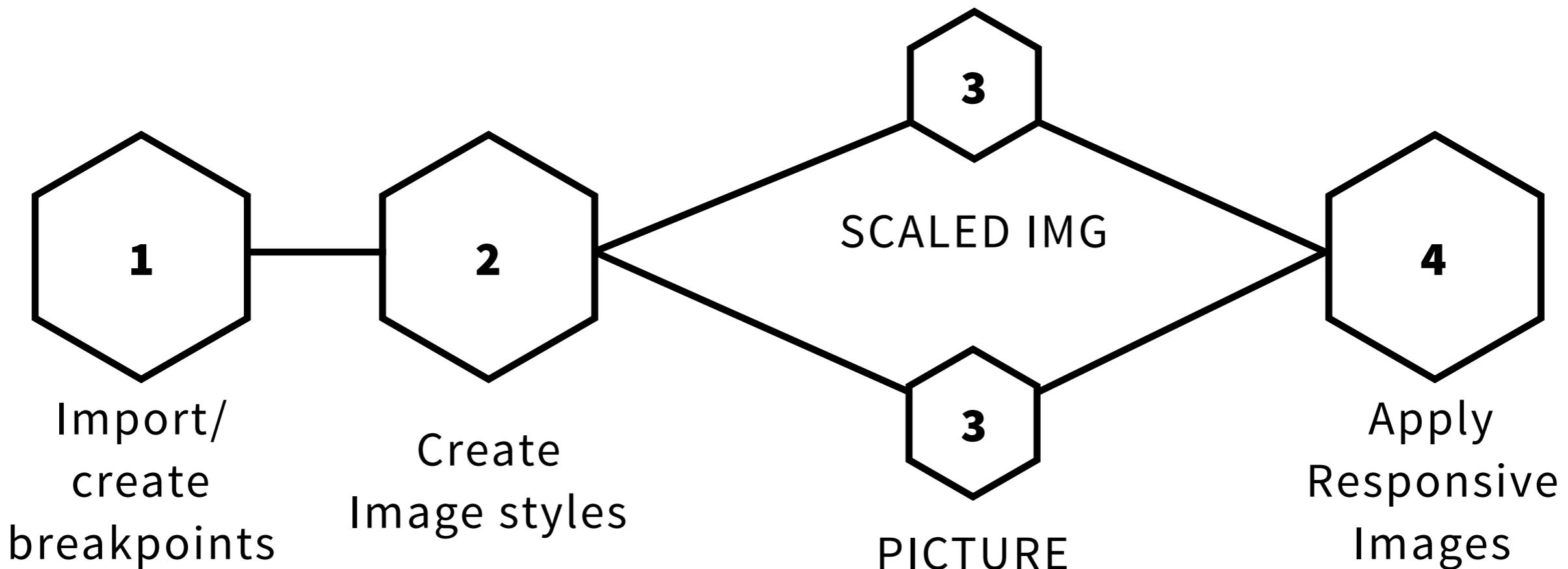
~~385px~~
~~480px~~



RESPONSIVE IMAGES

CREATE

3



SCALED IMAGE

<img

srcset=“large.jpg 1440w,
medium.jpg 960w,
small.jpg 480w”

sizes=“(min-width: 36em) 33.3vw,
100vw”

src=“medium.jpg”

alt=“A road”>

Back to site  Manage  Shortcuts  admin  Devel

 Content  Structure  Appearance  Extend  Configuration  People  Reports  Help

Image styles

Home » Administration » Configuration » Media

 The image style *Teaser L (480x320)* has been deleted.

Image styles commonly provide thumbnail sizes by scaling and cropping images, but can also add various effects before an image is displayed. When an image is displayed with a style, a new file is created and the original image is left unchanged.

[+ Add image style](#)

STYLE NAME	OPERATIONS
Large (480x480)	Edit 
Max 325x325	Edit 
Max 650x650	Edit 
Max 1300x1300	Edit 
Max 2600x2600	Edit 
Medium (220x220)	Edit 
Teaser M (385x255)	Edit 
Teaser S (300x200)	Edit 

Site-Install

Home

test 4

Submitted by admin on Sun, 02/12/2017 - 19:57



Integer posuere erat a ante venenatis dapibus posuere velit aliquet. Donec id elit non mi porta gravida at eget metus. Duis mollis, est non commodo luctus, nisi erat porttitor ligula, eget lacinia odio sem nec elit. Nulla vitae elit libero, a pharetra augue.

test 3

Submitted by admin on Sun, 02/12/2017 - 19:57



Integer posuere erat a ante venenatis dapibus posuere velit aliquet. Donec id elit non mi porta gravida at eget metus. Duis mollis, est non commodo luctus, nisi erat porttitor ligula, eget lacinia odio sem nec elit. Nulla vitae elit libero, a pharetra augue.

test 2

Submitted by admin on Sun, 02/12/2017 - 19:57



Integer posuere erat a ante venenatis dapibus posuere velit aliquet. Donec id elit non mi porta gravida at eget metus. Duis mollis, est non commodo luctus, nisi erat porttitor ligula, eget lacinia odio sem nec elit. Nulla vitae elit libero, a pharetra augue.

test 1

Submitted by admin on Sun, 02/12/2017 - 19:57



<https://vimeo.com/204517211>

ART DIRECTION

```
<picture>
```

```
  <source srcset="image-big.jpg 1x,  
           image-big2x.jpg 2x"  
          media="(min-width: 30em)">  
  sizes="(min-width: 30em) 33vw">
```

```
  
```

```
</picture>
```

Home Manage Shortcuts admin Devel

Content Structure Appearance Extend Configuration People Reports Help

Edit responsive image style Teaser

Edit Devel

Home » Administration » Configuration » Media » Responsive image styles

Label *

Teaser

Machine name: teaser

Example: 'Hero image' or 'Author image'.

Breakpoint group *

Responsive Image ▾

Select a breakpoint group from the installed themes and modules. Below you can select which breakpoints to use from this group. You can also select which image style or styles to use for each breakpoint you use. Warning: if you change the breakpoint group you lose all your image style selections for each breakpoint.

▼ 1X VIEWPORT SIZING []

Type

- 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: 960px) 30vw, (min-width: 480px) 45vw, 100vw

Enter the value for the sizes attribute, for example: (min-width:700px) 700px, 100vw.

Image styles

- Large (480x480)
- Max 1300x1300
- Max 2600x2600
- Max 325x325

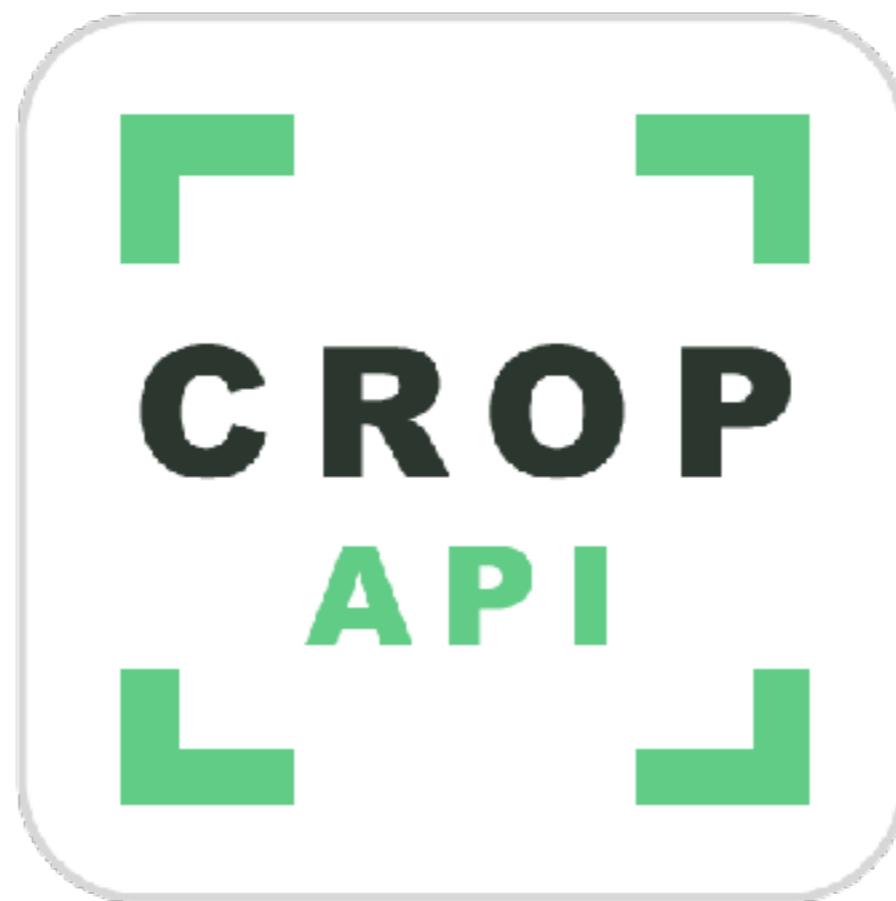


**A R T
D I R E C T I O N**



R E S P O N S I V E I M A G E S

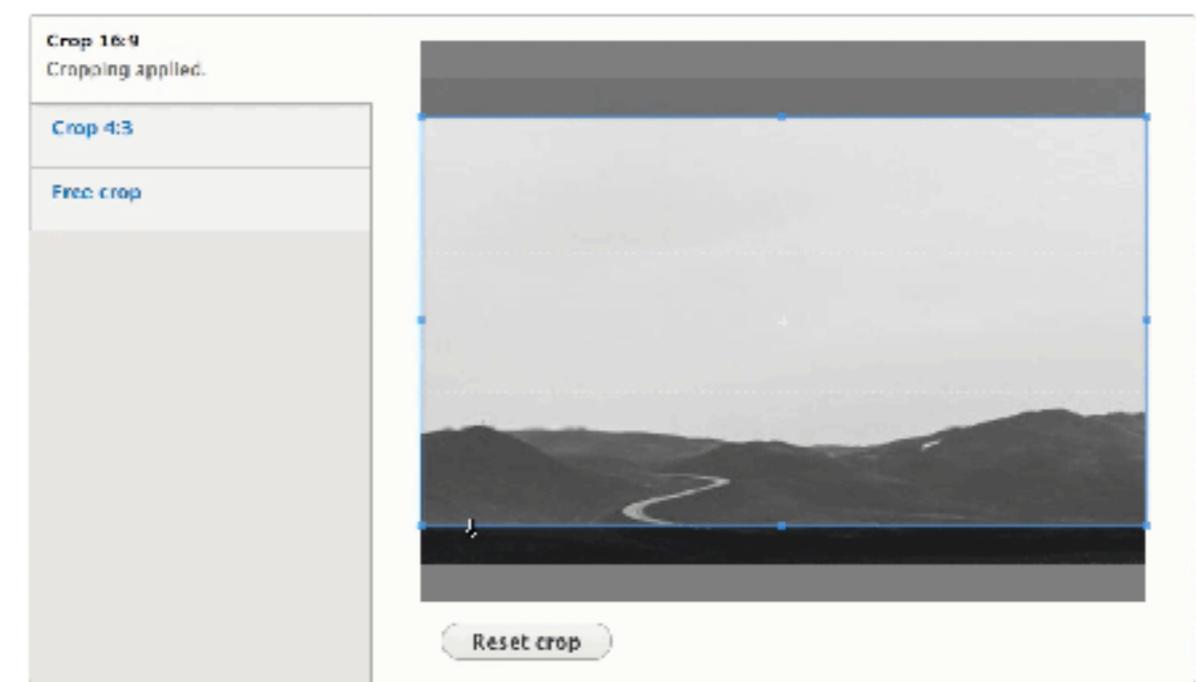
A R T D I R E C T I O N



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

IMAGE WIDGET CROP

FULL CONTROL



https://www.drupal.org/project/image_widget_crop

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

 Content  Structure  Appearance  Extend  Configuration  People  Reports  Help

Administration

[Tasks](#) [Index](#)

[Home](#)

 [Content](#)
Find and manage content.

 [Structure](#)
Administer blocks, content types, menus, etc.

 [Appearance](#)
Select and configure themes.

 [Extend](#)
Add and enable modules to extend site functionality.

 [Configuration](#)
Administer settings.

 [People](#)
Manage user accounts, roles, and permissions.

 [Reports](#)
View reports, updates, and errors.

 [Help](#)

<https://vimeo.com/204517111>

G I V E S

F U L L C O N T R O L

R E Q U I R E S

L O N G
I M P L E M E N T A T I O N

A U T O M A T E D F O C A L P O I N T

Image



Preview



https://www.drupal.org/project/focal_point

Image styles

[Home](#) » [Administration](#) » [Configuration](#) » [Media](#)

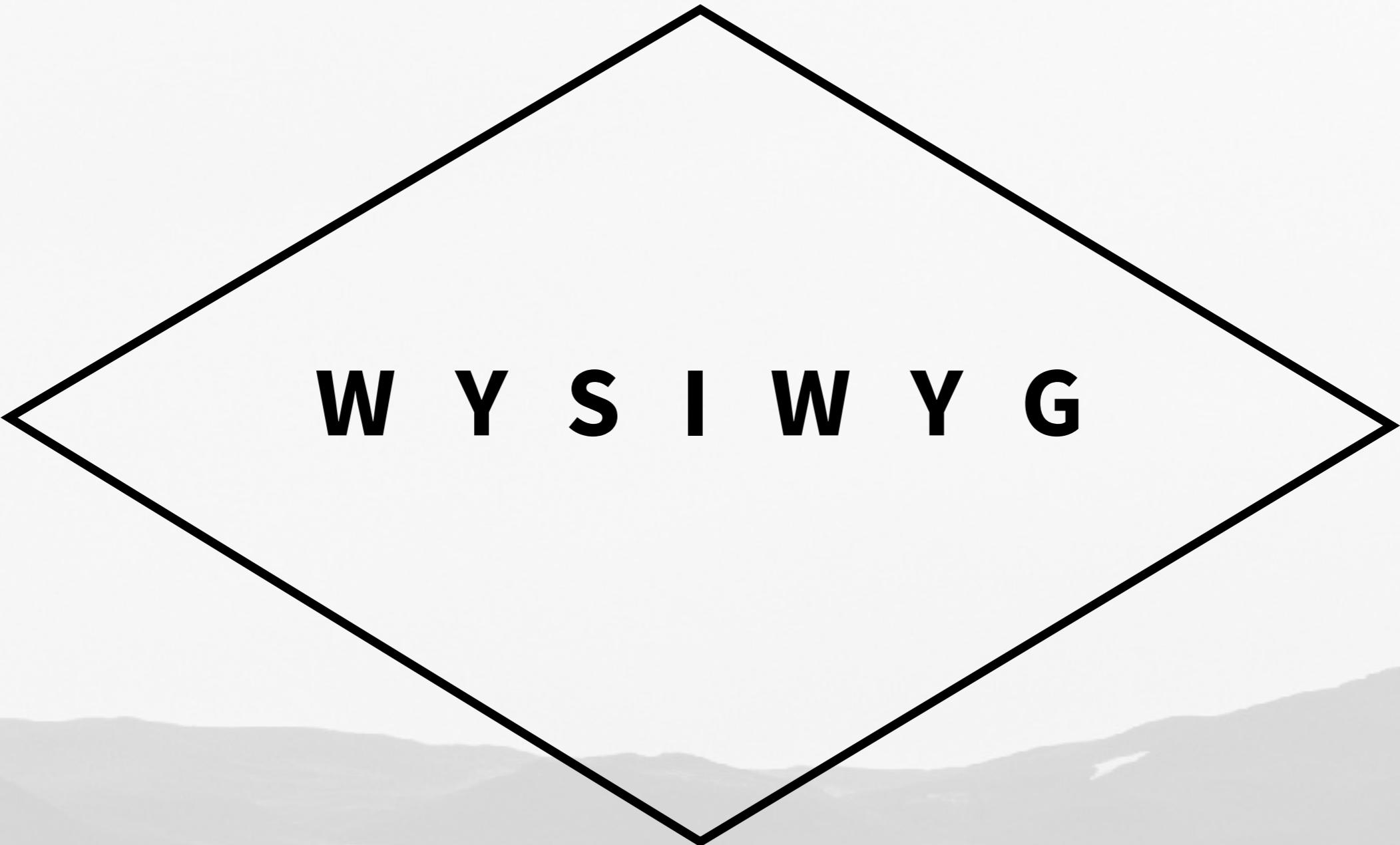
Image styles commonly provide thumbnail sizes by scaling and cropping images, but can also add various effects before an image is displayed. When an image is displayed with a style, a new file is created and the original image is left unchanged.

[+ Add image style](#)

STYLE NAME	OPERATIONS
Large (480x480)	Edit 
Max 325x325	Edit 
Max 650x650	Edit 
Max 1300x1300	Edit 
Max 2600x2600	Edit 
Medium (220x220)	Edit 
Teaser L (350x150)	Edit 
Teaser M (300x300)	Edit 
Thumbnail (100x100)	Edit 

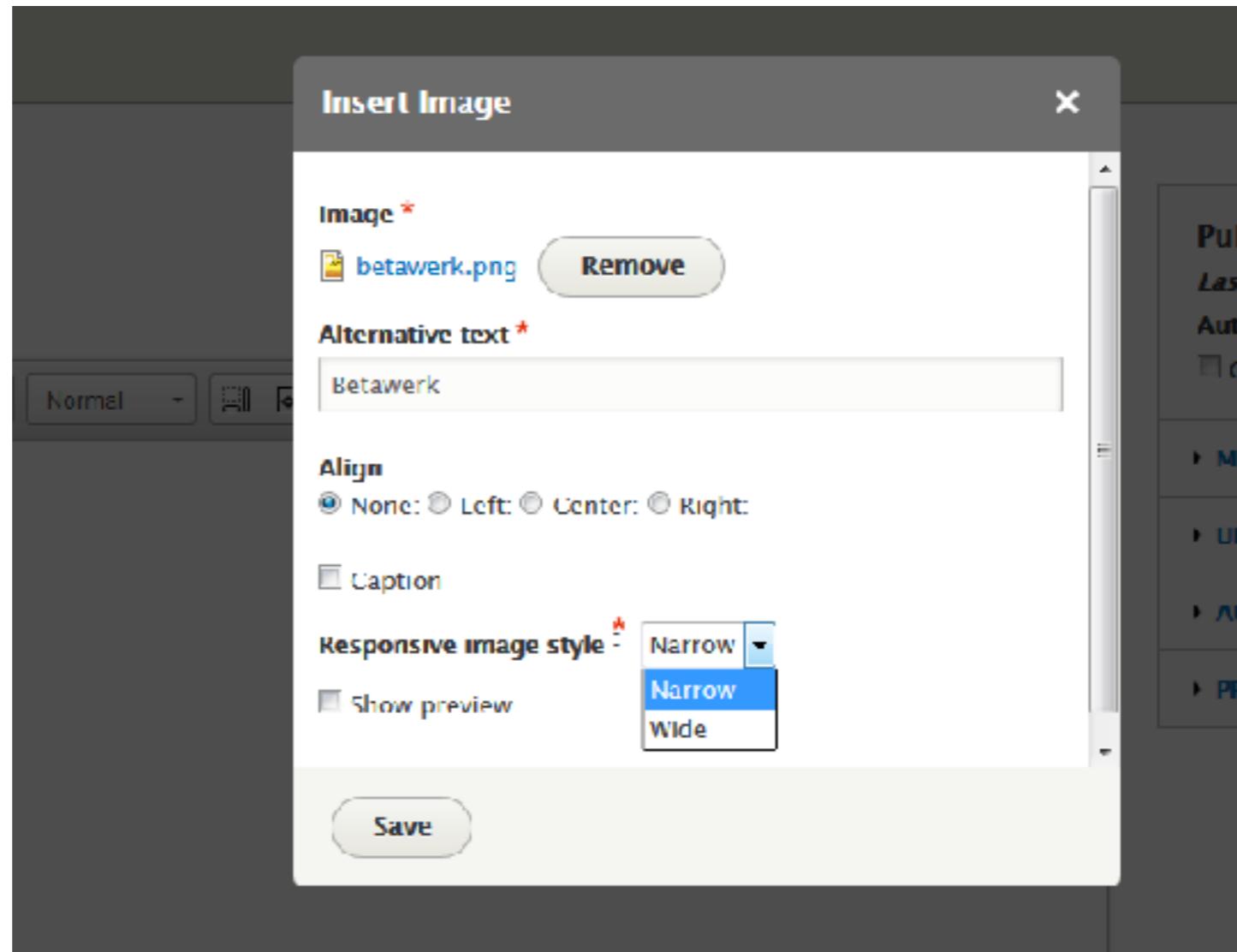
G I V E S
B A S I C
A R T D I R E C T I O N

R E Q U I R E S
L O W E F F O R T
(R E A L L Y)



W Y S I W Y G

RESPONSIVE IMAGES INSIDE WYSIWYG



https://www.drupal.org/project/inline_responsive_images

*<https://www.drupal.org/node/2061377>

CONCLUSIONS

- Plan your Responsive Images **before** implementing.
- Use Focal Point if you don't need full control.



THANKS!

@chumillas



QUESTIONS