

# Beyond

{Max-Width: 100%}

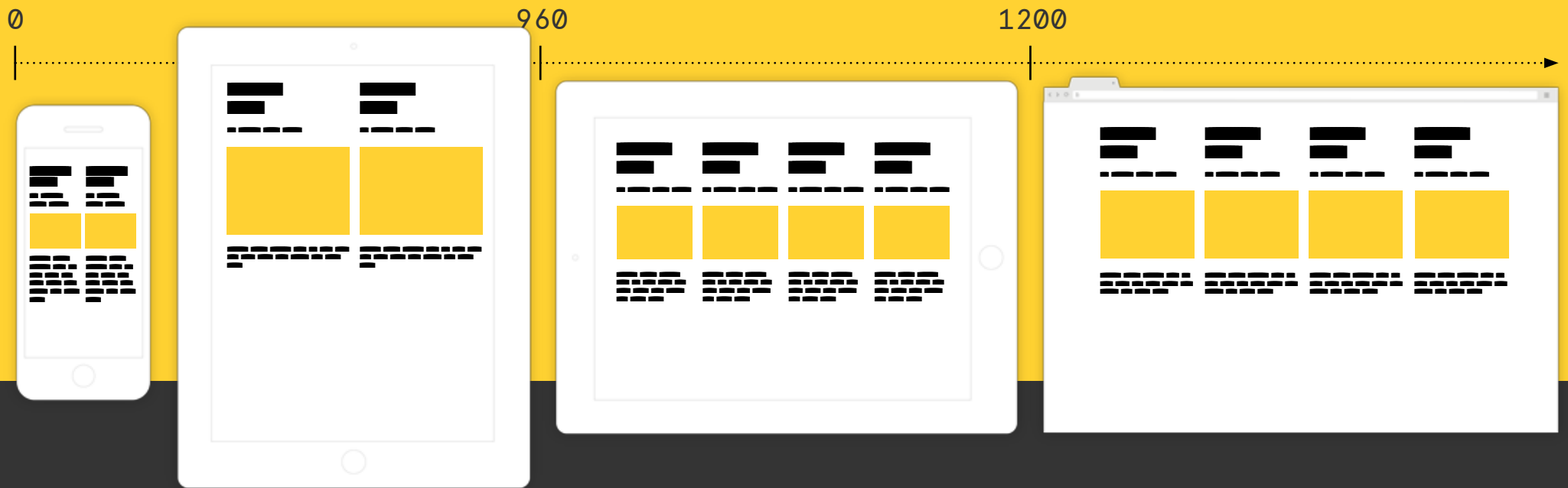
@ptbello

# Once upon a time...



```
img {  
  max-width:100%;  
}
```

# ...then came Resolution Switching



```

```

# ...then came Resolution Switching



```

```

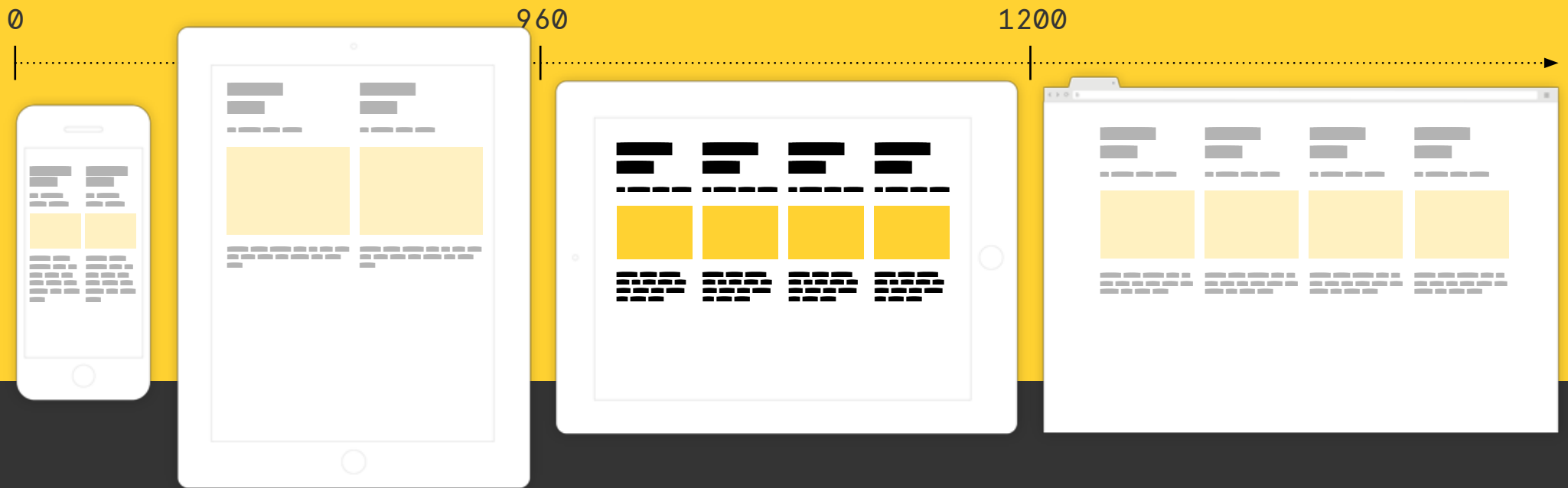
# ...then came Resolution Switching



```

```

# ...then came Resolution Switching



```

```

# ...then came Resolution Switching



```

```

# Keep in mind when using srcset + sizes

# 1

The **browser**  
will try and be **smart**  
beware when testing!

# 2

srcset + sizes are used  
on images with  
**the same aspect ratio**



# srcset + sizes in WordPress – since 4.4

## Register additional image sizes of the same aspect ratio

```
// 16:9 = 1,77777...  
add_image_size( '16-9_302', 302, 170, true ); // 302/170 = 1,77777...  
add_image_size( '16-9_256', 256, 144, true ); // 256/144 = 1,77777...  
add_image_size( '16-9_160', 160, 90, true ); // 160/90 = 1,77777...
```

## Filter the sizes attribute

```
function wctrn_image_sizes ( $sizes, $size ) {  
    return '(max-width: 480px) 100vw, (max-width: 900px) 33vw, 254px';  
}  
add_filter( 'wp_calculate_image_sizes', 'wctrn_image_sizes', 10 , 2 );
```

Or

```
function wctrn_image_attr ( $attr ) {  
    $attr['sizes'] = '(max-width: 480px) 100vw, (max-width: 900px) 33vw, 254px';  
    return $attr;  
}  
add_filter( 'wp_get_attachment_image_attributes', 'wctrn_image_attr', 10 , 1 );
```

# ...then someone came up with Art Direction



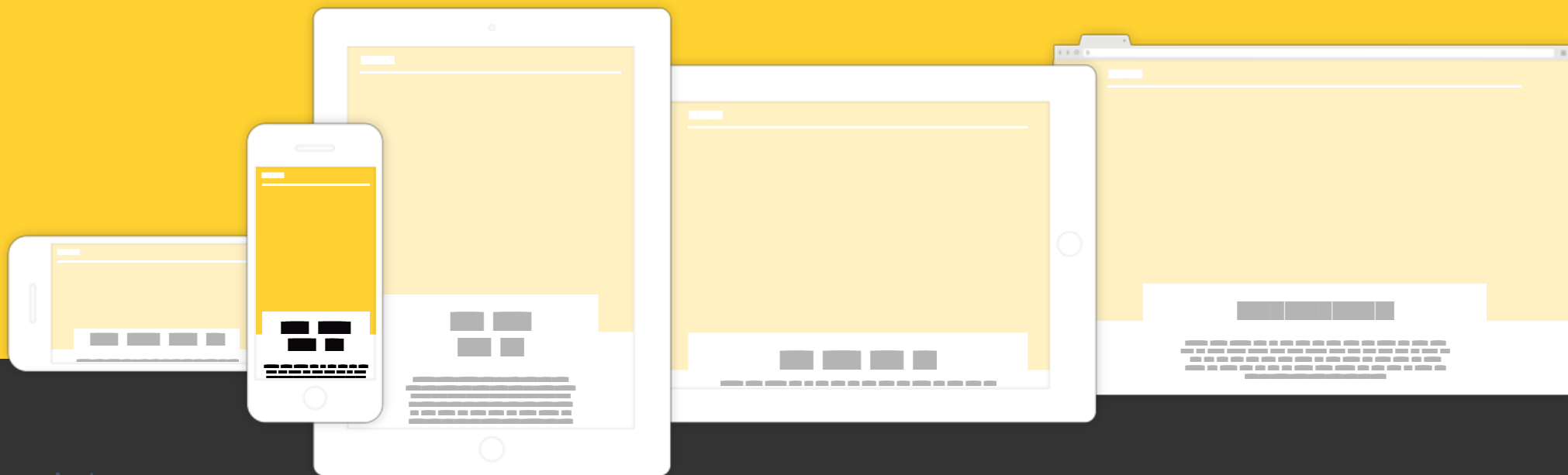
**Note the different aspect ratios**

# Worth taking a picture



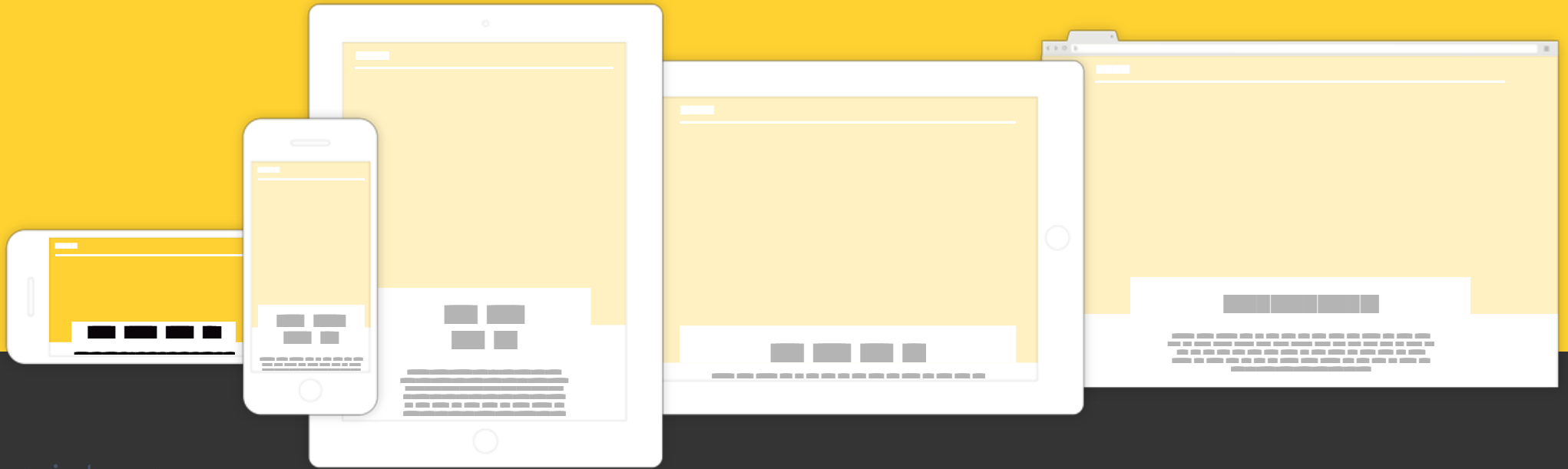
```
<picture>  
  <source media="(orientation: portrait) and (max-width: 450px)"  
    srcset="product-portrait-small.jpg">  
  <source media="(orientation: landscape) and (max-width: 768px)"  
    srcset="product-landscape-16-9-small.jpg">  
  <source media="(max-width: 768px)"  
    srcset="product-square.jpg">  
  <source media="(max-width: 1279px)"  
    srcset="product-landscape-4-3.jpg">  
  <source media="(min-width: 1280px)"  
    srcset="product-landscape-16-9-large.jpg">  
    
</picture>
```

# Worth taking a picture



```
<picture>  
  <source media="(orientation: portrait) and (max-width: 450px)"  
    srcset="product-portrait-small.jpg">  
  <source media="(orientation: landscape) and (max-width: 768px)"  
    srcset="product-landscape-16-9-small.jpg">  
  <source media="(max-width: 768px)"  
    srcset="product-square.jpg">  
  <source media="(max-width: 1279px)"  
    srcset="product-landscape-4-3.jpg">  
  <source media="(min-width: 1280px)"  
    srcset="product-landscape-16-9-large.jpg">  
    
</picture>
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# Worth taking a picture



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<picture>
  <source media="(orientation: portrait) and (max-width: 450px)"
    srcset="product-portrait-small.jpg">
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  <source media="(max-width: 768px)"
    srcset="product-square.jpg">
  <source media="(max-width: 1279px)"
    srcset="product-landscape-4-3.jpg">
  <source media="(min-width: 1280px)"
    srcset="product-landscape-16-9-large.jpg">
  
</picture>
```

# Worth taking a picture



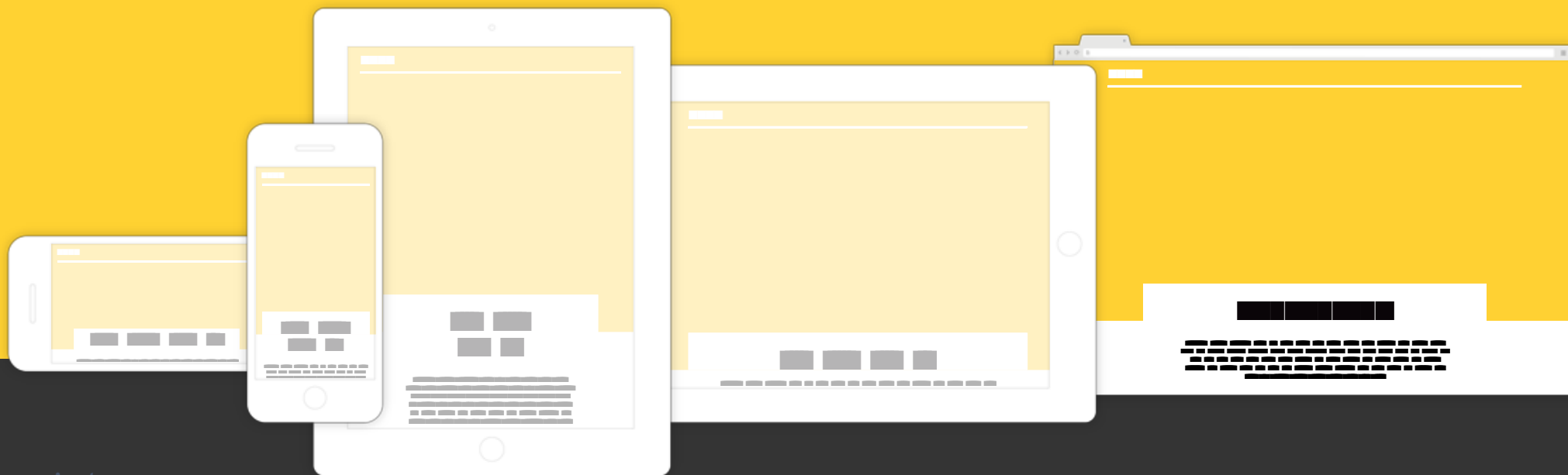
```
<picture>
  <source media="(orientation: portrait) and (max-width: 450px)"
    srcset="product-portrait-small.jpg">
  <source media="(orientation: landscape) and (max-width: 768px)"
    srcset="product-landscape-16-9-small.jpg">
  <source media="(max-width: 768px)"
    srcset="product-square.jpg">
  <source media="(max-width: 1279px)"
    srcset="product-landscape-4-3.jpg">
  <source media="(min-width: 1280px)"
    srcset="product-landscape-16-9-large.jpg">
  
</picture>
```

# Worth taking a picture



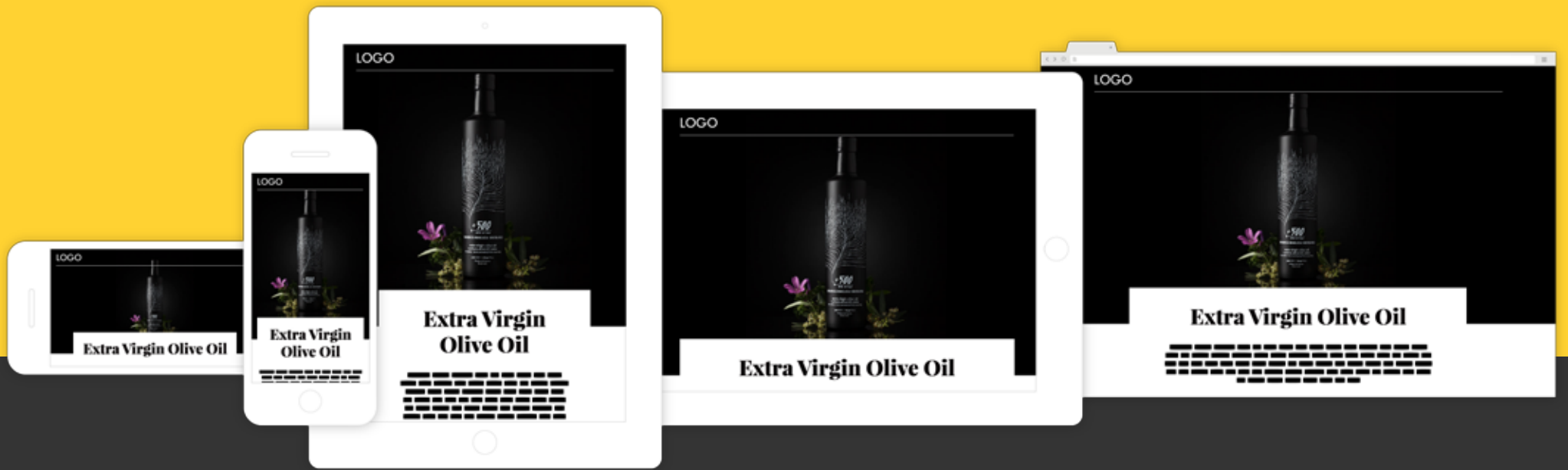
```
<picture>  
  <source media="(orientation: portrait) and (max-width: 450px)"  
    srcset="product-portrait-small.jpg">  
  <source media="(orientation: landscape) and (max-width: 768px)"  
    srcset="product-landscape-16-9-small.jpg">  
  <source media="(max-width: 768px)"  
    srcset="product-square.jpg">  
  <source media="(max-width: 1279px)"  
    srcset="product-landscape-4-3.jpg">  
  <source media="(min-width: 1280px)"  
    srcset="product-landscape-16-9-large.jpg">  
    
</picture>
```

# Worth taking a picture

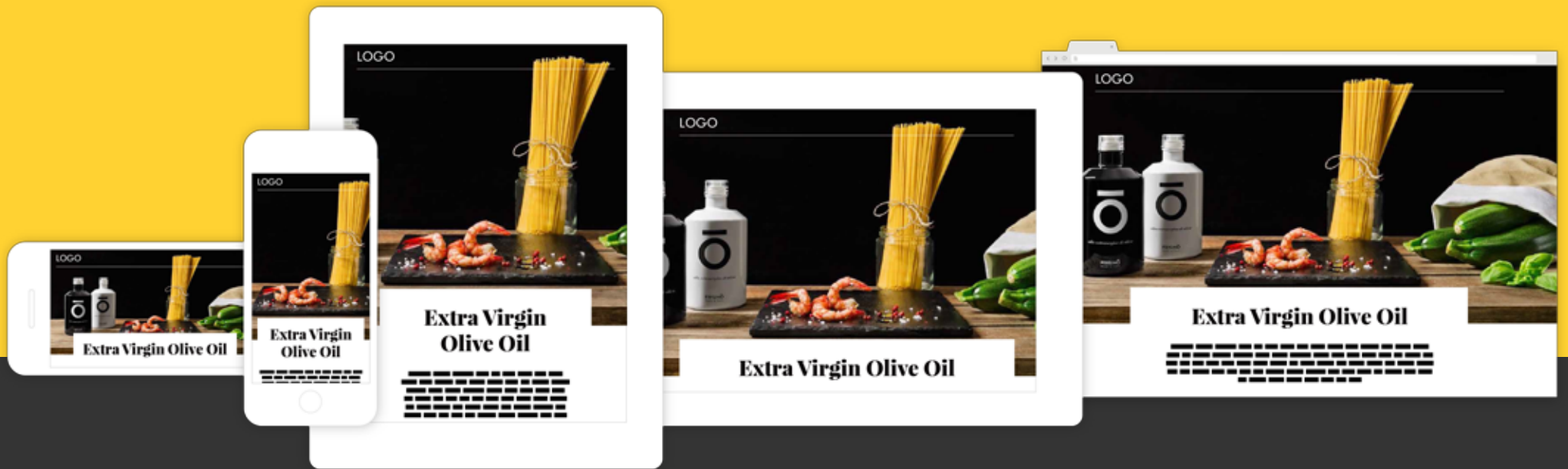


```
<picture>
  <source media="(orientation: portrait) and (max-width: 450px)"
    srcset="product-portrait-small.jpg">
  <source media="(orientation: landscape) and (max-width: 768px)"
    srcset="product-landscape-16-9-small.jpg">
  <source media="(max-width: 768px)"
    srcset="product-square.jpg">
  <source media="(max-width: 1279px)"
    srcset="product-landscape-4-3.jpg">
  <source media="(min-width: 1280px)"
    srcset="product-landscape-16-9-large.jpg">
  
</picture>
```

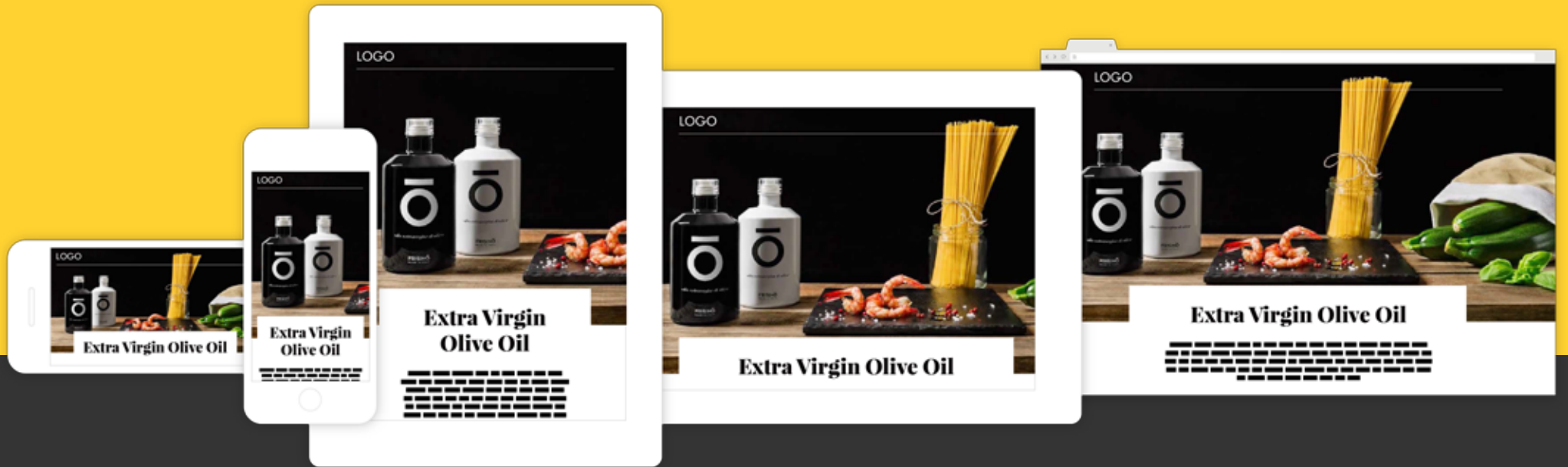




# Back to Art Direction: The Crop



# Back to Art Direction: The Crop



# Back to Art Direction: The Crop

# Keep in mind when using picture + source

**1**  
The browser  
will obey to the letter  
no smart  
yet unfathomable  
behaviours

**2**  
Widely disparate  
aspect ratios.  
Go crazy!

# Picture + source in WordPress

## Include a polyfill

<https://github.com/aFarkas/respimage/>  
<https://scottjehl.github.io/picturefill/>

```
function wctrn_scripts() {  
    ...  
    wp_enqueue_script('respimages', '//cdn.jsdelivr.net/respimage/1.4.2/respimage.min.js');  
    ...  
}  
add_action('wp_enqueue_scripts', 'wctrn_scripts');
```

## Register additional image sizes of any aspect ratio

```
add_image_size( '16-9_1600', 1600, 900, true );  
add_image_size( '16-9_768', 768, 432, true );  
add_image_size( '1-1_768', 768, 768, true );  
add_image_size( '4-3_1200', 1200, 900, true );  
add_image_size( '3-4_300', 300, 400, true );
```

# Picture + source in WordPress

## Register your source media and sets

```
$picture_formats['product-header'] = array(  
    '(orientation: portrait) and (max-width: 450px)' => array( '3-4_300' ),  
    '(orientation: landscape) and (max-width: 768px)' => array( '16-9_768' ),  
    '(max-width: 768px)' => array( '1-1_768' ),  
    '(max-width: 1279px)' => array( '4-3_1200' ),  
    '(min-width: 1280px)' => array( '16-9_1600' ),  
);
```


## Write a function to generate the markup

```
if( !function_exists('wp_get_attachment_picture') ) {  
    function wp_get_attachment_picture ( int $attachment_id,  
                                        string $format,  
                                        string|array $attr = '' ) {  
  
        ...  
    }  
}
```

Check the repo <https://github.com/ptbello/wp-picture-support>



# Picture + source in WordPress

Crop individual sizes  
of an image:  
Manual Image Crop plugin  
by Tomasz Sita



Pick the image size: [thumbnail](#) [homepage-thumb](#) [insidepage-thumb](#) [avatar-outline](#) [vertical-test](#)

Original picture dimensions: 1024 x 768 px  
Target picture dimensions: 150px x 150px (Hard crop mode)

New image:  Previous image: 

## Manual Image Crop

Plugin allows you to manually crop all the image sizes registered in your WordPress theme (in particular featured image).

[Download Version](#)

[Description](#) [Installation](#) [Changelog](#) [Stats](#) [Support](#) [Reviews](#) [Developers](#)

**.12**  
Fixed 'stretched images' issue

**.11**  
Hungarian translation added  
Swedish translation added  
Security improvements

**.10**  
Fixed handling of array \$crop param


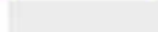
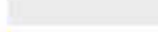

**.09**  
Dutch translation added  
Better error handling  
Fixed overwriting of previously saved crops  
Minor tweaks all around

**.08**  
More descriptive error messages  
Russian translation added


Requires: 3.5 or higher  
Compatible up to: 4.3.3  
Last Updated: 7 months  
Active Installs: 20,000+

**Ratings**

★★★★☆  
4.3 out of 5 stars

5 stars   
4 stars   
3 stars   
2 stars   
1 star 

**Author**

 **Tomasz Sita**  
1 plugin  
[Donate to this plug](#)

# picture + source in SEO

## Google is golden

googlebot parses javascript  
(and gets better at it every day)  
all you need to do  
is include a polyfill.  
This holds true even  
with lazy loading

## The rest (Bing, Baidu etc.)

Only the default `<img>` will be indexed.  
If you want the other resolutions  
to be indexed there are several tricks  
but TL;DR: best approach is find  
a clever way to link to the  
other resolutions in the source



# The repo

I've packaged the picture support code in a handy plugin.

## Check the repo:

<https://github.com/ptbello/wp-picture-support>

# Thanks

**#WCTRN**  
**for the unparalleled awesomeness**

**@darioaschero**  
**for making my slides waaaay cooler**