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Experience sharing session

Wordpress tips and tricks

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WP image sizes - image scaling in media library

Image scaling was introduced to WordPress in version 5.3.0.

By default, the media library scales down any image that is larger than 2560px in any dimension.

You can opt-out of this functionality by adding a filter in functions.php:

```
add_filter( 'big_image_size_threshold', '__return_false' );
```

Or you can specify your own dimensions like so:

```
function my_big_image_size_threshold( $threshold ) {
    return 4000; // new threshold
}
add_filter('big_image_size_threshold', 'my_big_image_size_threshold', 999, 1);
```

Reference: https://developer.wordpress.org/reference/hooks/big_image_size_threshold/

WP image sizes - media settings

For every image you upload to the media library WordPress generates a couple of different image sizes from the original image:

- Thumbnail : (150px square by default)
- Medium: (maximum 300px width and height by default);
- Medium large (maximum 768px width and 522px height by default)
- Large: (maximum 1024px width and height by default);
- 1536x1536 (scaled)
- 2048x2048 (scaled)
- Full size: (full image size you uploaded scaled to the current threshold).

You can change some of the sizes in media settings via the admin panel, but if you wish to change the default scaled and intermediary sizes, you would have to use additional filters although that is not recommended as it could interfere with responsive image sizes.

Reference: https://developer.wordpress.org/reference/functions/remove_image_size/
Reference: https://developer.wordpress.org/reference/hooks/intermediate_image_sizes/

WP image sizes - custom image sizes

If the default WordPress image sizes just don’t cut it, you can add custom sizes with a simple function:

```
add_image_size('my-size', 1000, 600);
```

This can be helpful if your design has specified container widths and you wish to cut down on image size or if you want to have custom sizes for thumbnails or card elements.

Any additional image size will add to the overall size of your /wp-uploads folder and it might slow down the upload time in the admin panel so just keep that in mind.

Reference: https://developer.wordpress.org/reference/functions/add_image_size/

Responsive and SEO-friendly images - srcset + sizes

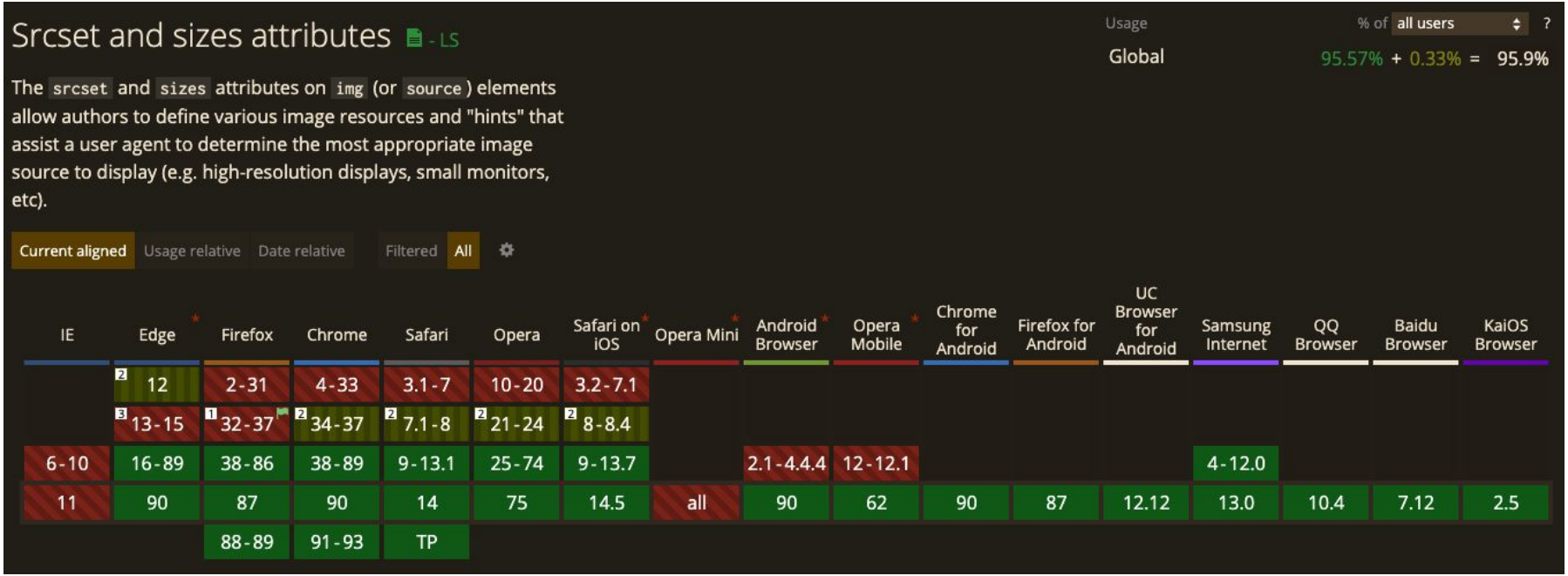
srcset and sizes HTML attributes allow to embed <img> tags that respond to the user's viewport size and load an image that is appropriate for the size.

This is a native HTML feature that can be enhanced by using WordPress functions.

```
<img srcset="elva-fairy-480w.jpg 480w,
             elva-fairy-800w.jpg 800w "
     sizes="(max-width: 600px) 480px, 800px "
     src="elva-fairy-800w.jpg "
     alt="Elva dressed as a fairy ">
```

Reference: https://developer.mozilla.org/en-US/docs/Learn/HTML/Multimedia_and_embedding/Responsive_images

Responsive and SEO-friendly images - srcset + sizes



Reference: https://caniuse.com/srcset

Responsive and SEO-friendly images - srcset + sizes

To generate the necessary srcset and sizes attributes, you can apply these two WordPress functions so you don't have to write them by hand:

wp_get_attachment_image_srcset - Retrieves the value for an image attachment's 'srcset' attribute

wp_get_attachment_image_sizes - Retrieves the value for an image attachment's 'sizes' attribute.

```
<img class="my-image" alt="my image"
     src="<?= wp_get_attachment_image_url( $image['ID'], 'large' ) ?>"
     srcset="<?= wp_get_attachment_image_srcset( $image['ID'], 'large' ) ?>"
     sizes="<?= wp_get_attachment_image_sizes( $image['ID'], 'large' ) ?>" />
```

Reference: https://developer.wordpress.org/reference/functions/wp_get_attachment_image_srcset/
Reference: https://developer.wordpress.org/reference/functions/wp_get_attachment_image_sizes/

Responsive and SEO-friendly images - object-fit

object-fit is a CSS feature that enables similar functionality to background-size or background-position but on <img> or <video> tags.

When compared to traditional elements with background images, <img> tags offer better SEO results and have attributes that can help with accessibility and responsive image sizes (title, alt).

```
object-fit: cover;
object-position: center;
```

Reference: https://developer.mozilla.org/en-US/docs/Web/CSS/object-fit

Responsive and SEO-friendly images - object-fit

Reference: https://caniuse.com/object-fit

Responsive and SEO-friendly images - object-fit

object-fit can be polyfilled for browsers that don't support it (mostly IE11 and lower)

DEMO: http://fregante.github.io/object-fit-images/demo/

This setup with <img>, srcset+sizes and object-fit+polyfill works seamlessly together with WP Smush and does not interfere with its lazy loading feature.

Reference: https://github.com/fregante/object-fit-images

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