



Speed Up Media Uploads

Matt Dorman

Ndevr

/ Since 2015

/ Distributed

/ Technology Consulting

/ <https://ndevr.io>



Clients & Partners

Bloomberg

DIGITAL 360
COMMERCE

MTS | Health
Partners

PMIC

ESSENCE

 **FOLEY
HOAG** LLP

cerberus

What Works Cities

NATURALLY *Curly*.COM[®]

**AFRO
PUNK.**

tapestry



303MAGAZINE.COM



aws

 **PANTHEON**

Me

/ Partner and Technical Architect - Ndevr

/ B.S. Computer Science (NJIT)

/ 21+ Years Building Websites

/ 6 - WordPress

/ 8 - Drupal

/ 8 - Other

/ <https://www.linkedin.com/in/matthewdorman/>

In This Talk

/ WordPress Media Upload Process

/ Partial Solutions / Recommendations

/ What About X Plugin

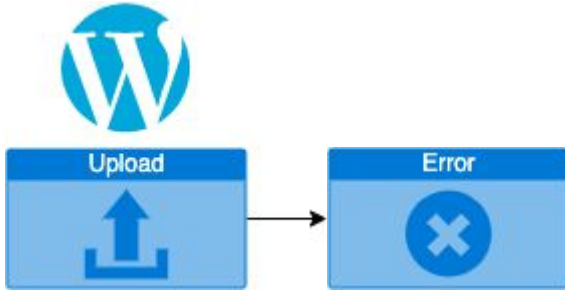
/ Demos w/ 16 Image Sizes

/ Our Solution

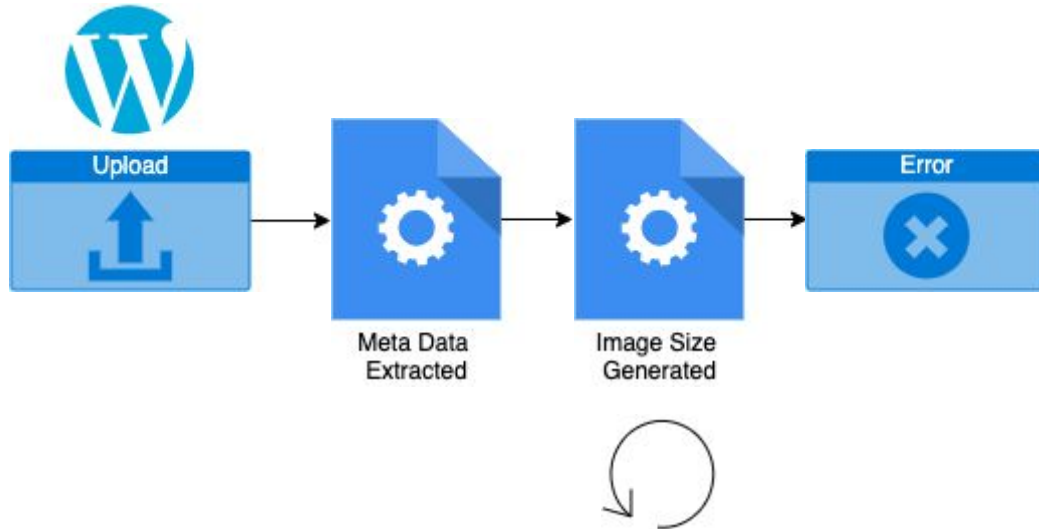
/ Next Steps

/ Questions

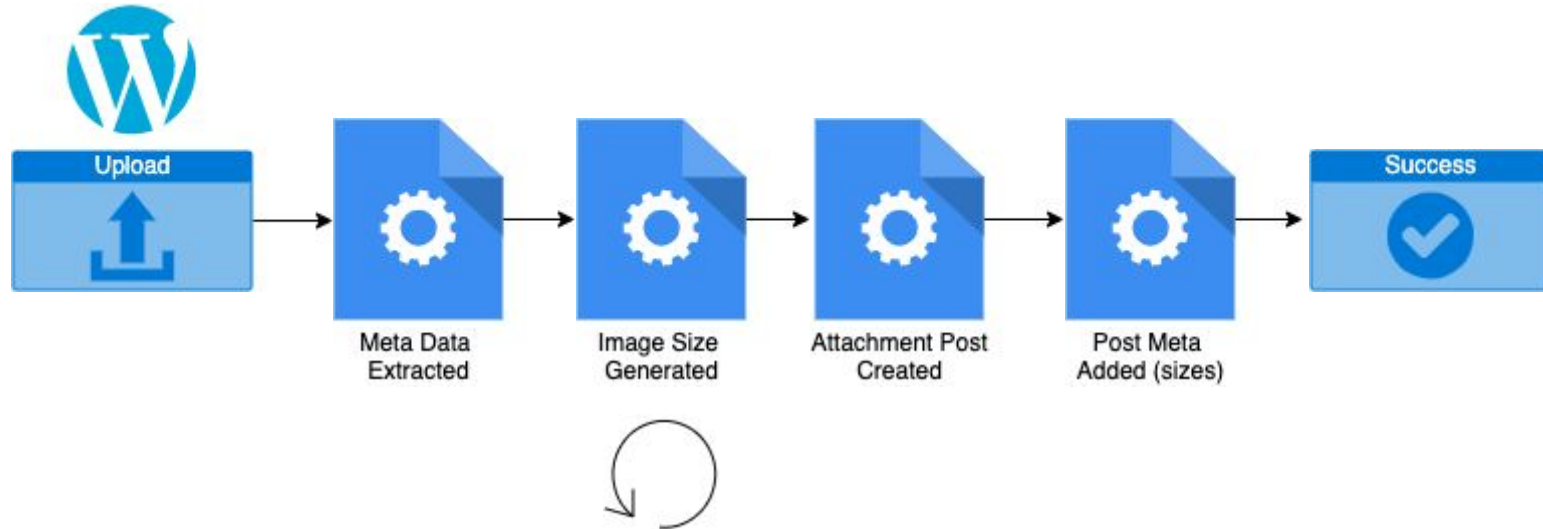
WordPress Media Upload Process



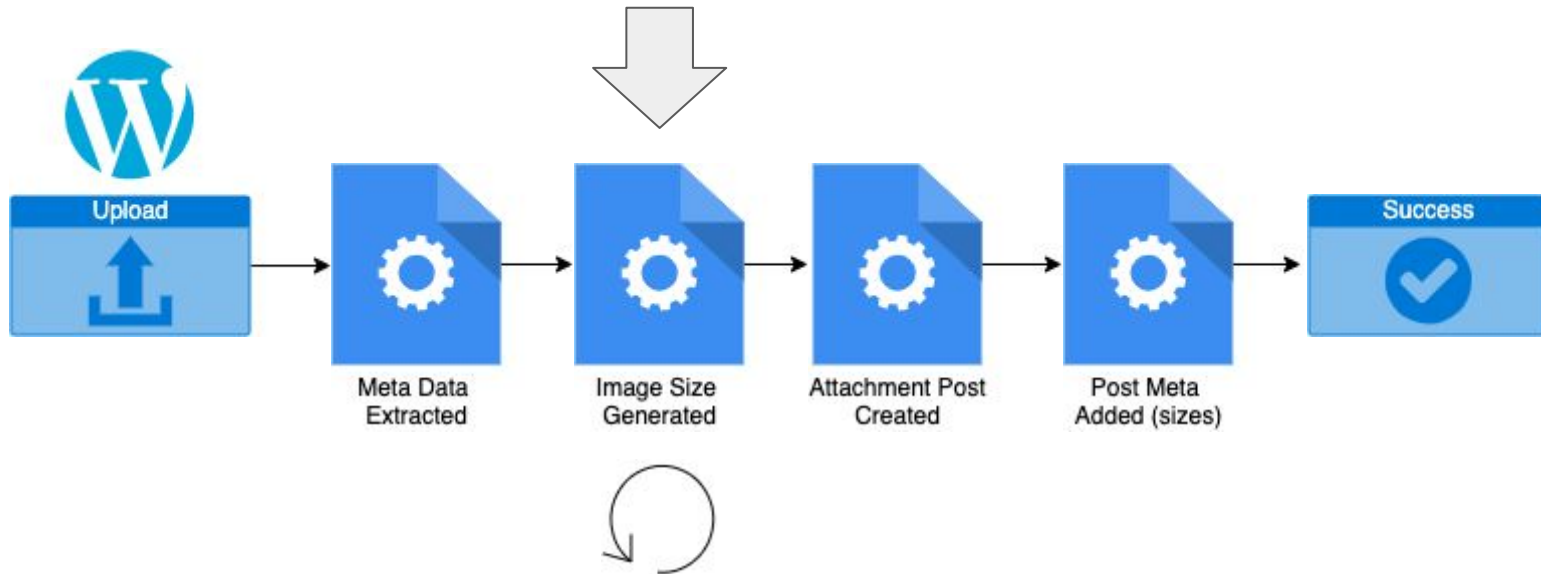
WordPress Media Upload Process #2



WordPress Media Upload Process Success



Where's The Problem?



Partial Solutions / Recommendations

/ Audit Site's Image Sizes

/ Review Site's Image Sizes... (not oops)

/ Remove unused sizes

/ Modify unused sizes

How to Find Image Sizes

```
vagrant@vuv:/srv/www/ndevr/htdocs$ wp media image-size
```

name	width	height	crop	ratio
full			N/A	N/A
et-pb-post-main-image-fullwidth-large	2880	1800	hard	8:5
2048x2048	2048	2048	soft	N/A
1536x1536	1536	1536	soft	N/A
et-pb-image--responsive--desktop	1280	720	hard	16:9
et-pb-portfolio-image-single	1080	9999	soft	N/A
et-pb-post-main-image-fullwidth	1080	675	hard	8:5
large	1024	1024	soft	N/A
et-pb-image--responsive--tablet	980	551	hard	980:551
medium_large	768	0	soft	N/A
et-pb-portfolio-module-image	510	382	hard	255:191
et-pb-image--responsive--phone	480	270	hard	16:9
et-pb-gallery-module-image-portrait	400	516	hard	100:129
et-pb-portfolio-image	400	284	hard	100:71
et-pb-post-main-image	400	250	hard	8:5
medium	300	300	soft	N/A
thumbnail	150	150	hard	1:1

```
function get_all_image_sizes() {  
    global $_wp_additional_image_sizes;  
    echo '<pre>';  
    print_r( $_wp_additional_image_sizes );  
    echo '</pre>';  
}  
add_action( 'init', 'get_all_image_sizes', 999 );
```

RE - Review Site's Image Sizes

```
/**
 * Add additional default image sub-sizes.
 *
 * These sizes are meant to enhance the way WordPress displays images on the front-end on larger,
 * high-density devices. They make it possible to generate more suitable `srcset` and `sizes` attributes
 * when the users upload large images.
 *
 * The sizes can be changed or removed by themes and plugins but that is not recommended.
 * The size "names" reflect the image dimensions, so changing the sizes would be quite misleading.
 *
 * @since 5.3.0
 * @access private
 */
function _wp_add_additional_image_sizes() {
    // 2x medium_large size
    add_image_size( '1536x1536', 1536, 1536 );
    // 2x large size
    add_image_size( '2048x2048', 2048, 2048 );
}
```

Plugins Are Helpful, Right?

```
add_image_size('cspm-marker-thumbnail', 100, 100, true);           progress-map.php 625
add_image_size('cspm-horizontal-thumbnail-map', 204, 150, true);   progress-map.php 626
add_image_size('cspm-vertical-thumbnail-map', 204, 120, true);     progress-map.php 627
add_image_size('cspm-modal-fullscreen', 1024, 1024, true); //@since 3.5   progress-map.php 628
add_image_size('cspm-modal-carousel-preview', 700, 300, true); //@since 3.5   progress-map.php 629
add_image_size('cspm-modal-single', 700, 400, true); //@since 3.5       progress-map.php 630
add_image_size('cspm-modal-carousel-thumb', 120, 80, true); //@since 3.5     progress-map.php 631
//add_image_size('cspacing-horizontal-thumbnail', 204, 150, true ); //@deprecatec progress-map.php 632
//add_image_size('cspacing-vertical-thumbnail', 204, 120, true ); //@deprecated si progress-map.php 633
if(function_exists('add_image_size')){                               progress-map.php 2037
add_image_size('cspm-horizontal-thumbnail-map'.$object_id, $horizontal_image progress-map.php 2052
add_image_size('cspm-vertical-thumbnail-map'.$object_id, $vertical_image_width, $vertical_image_height,
```

Remove Unused Sizes

```
// Remove image sizes added by WordPress 5.3  
remove_image_size( '1536x1536' );  
remove_image_size( '2048x2048' );
```

Modify Unused Sizes

```
// DO NOT DO THIS METHOD
```

```
update_option( 'thumbnail_w', get_option( 'medium_w' ) );  
update_option( 'thumbnail_h', get_option( 'medium_h' ) );
```

```
// DO THIS METHOD
```

```
$thumbnail_w = get_option( 'thumbnail_w' );  
$thumbnail_h = get_option( 'thumbnail_h' );  
$medium_w    = get_option( 'medium_w' );  
$medium_h    = get_option( 'medium_h' );  
if ( $thumbnail_w !== $medium_w || $thumbnail_h !== $medium_h ) {  
    update_option( 'thumbnail_w', $medium_w );  
    update_option( 'thumbnail_h', $medium_h );  
}
```

What About X Plugin

/ Smush

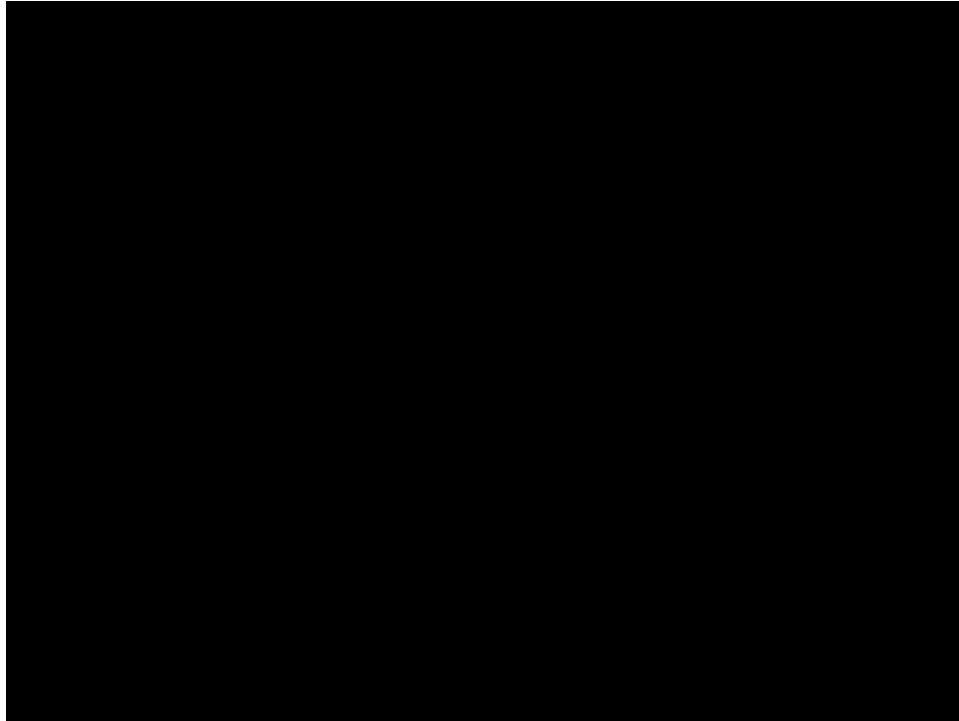
/ Imagify

/ WP Media Offload

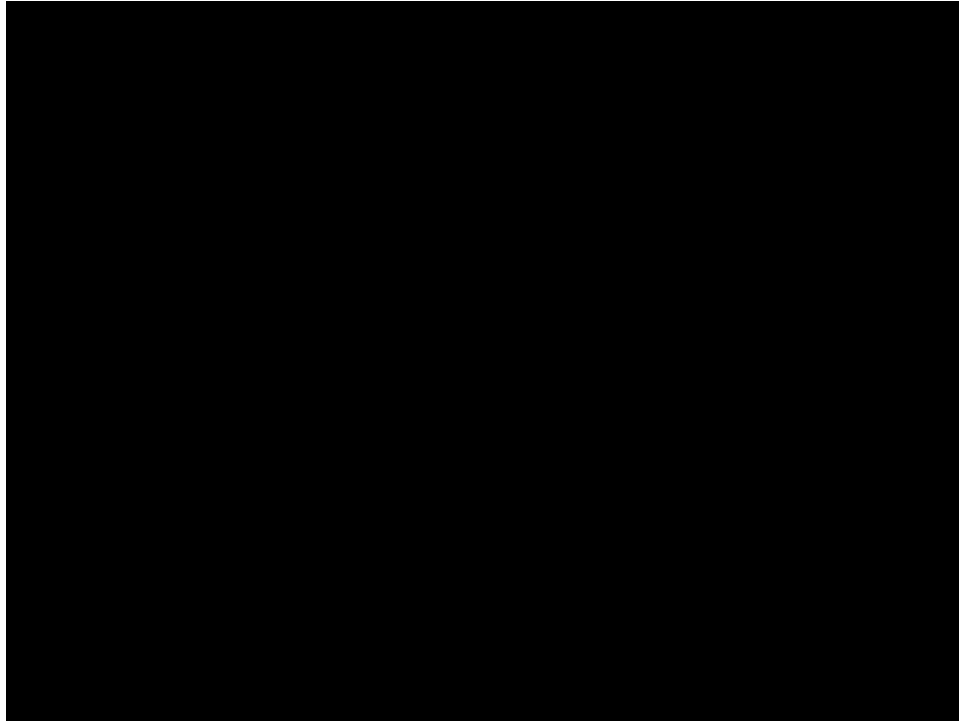
/ S3 Uploads

/ Jetpack

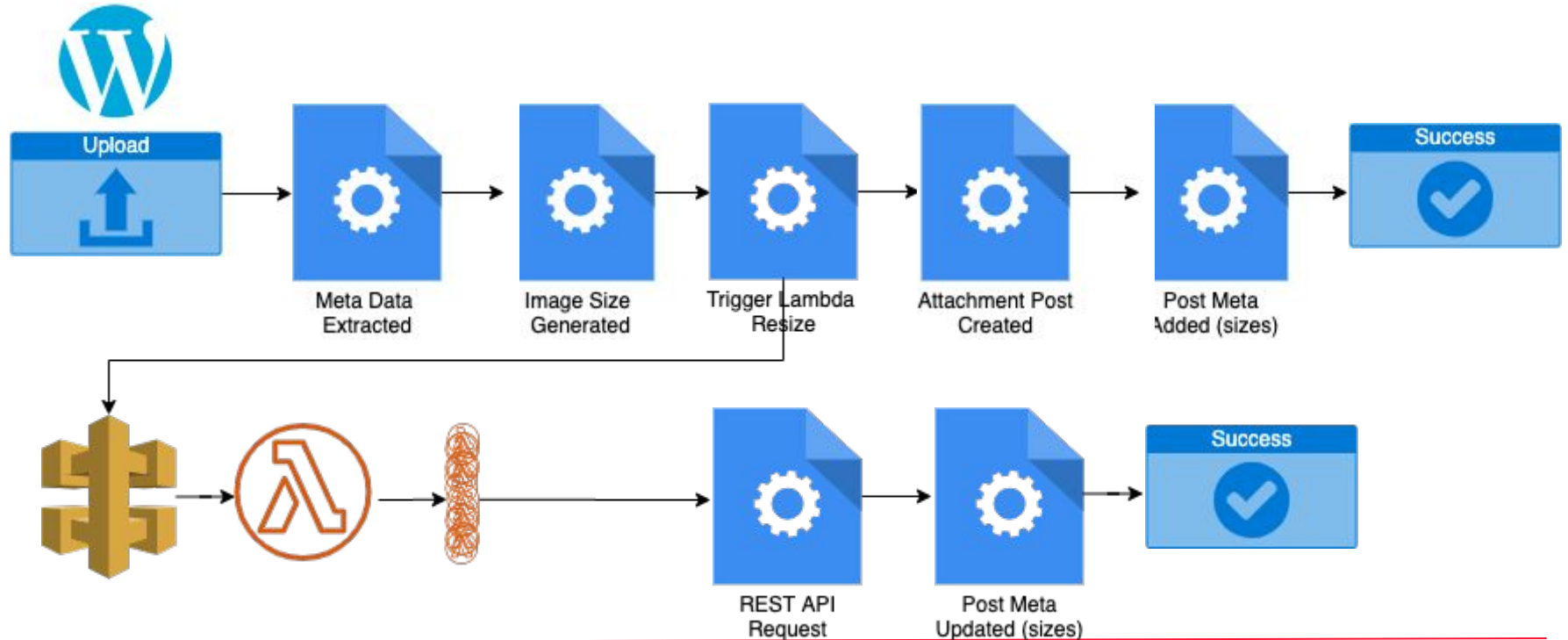
Demo 16 Image Sizes...



Demo 16 Image Sizes w/ Offloading...



Offload Media Generation



Limitations & Issues

- / Still has to wait for WordPress to initially process the uploaded image.
- / Parallel resizing could fail without notifying the editor.
- / Relies on AWS

Show Me The Code

<https://github.com/ndevrinc/wp-offload-media-generation>

<https://github.com/ndevrinc/lambda-media-generation>

Questions?

/ mdorman@ndevr.io

/ <https://ndevr.io>

/ Follow us on Twitter: [@ndevrinc](https://twitter.com/ndevrinc)

/ LinkedIn: <https://www.linkedin.com/company/ndevr>

/ Slides: Uploaded to webinar

Thank You