

Responsive use of

So far the images have been somewhat static

```

```

HTML 4 required to use src and alt

```

```

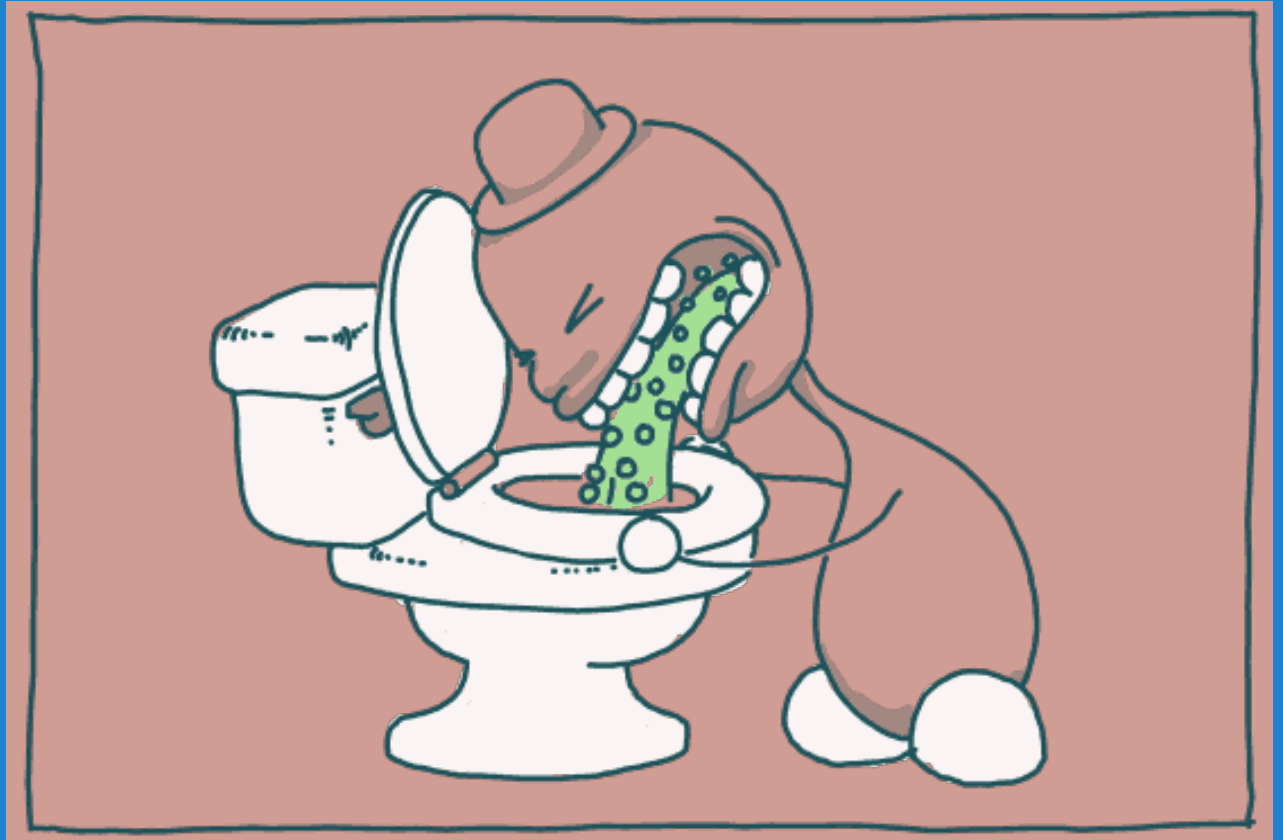
XHTML required a closure

```

```

HTML5 introduced new properties

srcset
sizes



Why not <picture> ?



Jason Grigsby, 🍀4

@grigs



Follow

New blog post: Don't use <picture> (most of the time)

[blog.cloudfour.com/dont-use-pictu ...](http://blog.cloudfour.com/dont-use-pictu...)

#aeaaus



RETWEETS

96

FAVORITES

125



11:16 PM - 22 Sep 2014

srcset

```
srcset="url descriptor,  
      url descriptor"
```

Descriptor defines the width of the image (w) or the pixel ratio (x)

srcset width use case

```
srcset="ape-a.jpg 768w,  
      ape-b.jpg 1024w"
```

Usually used when the image has
dynamic size

srcset pixel density use case

```
srcset="ape-1.jpg 1x,  
      ape-2.jpg 2x"
```

Usually used when the image is used in a fixed layout

Srcset attribute - LS

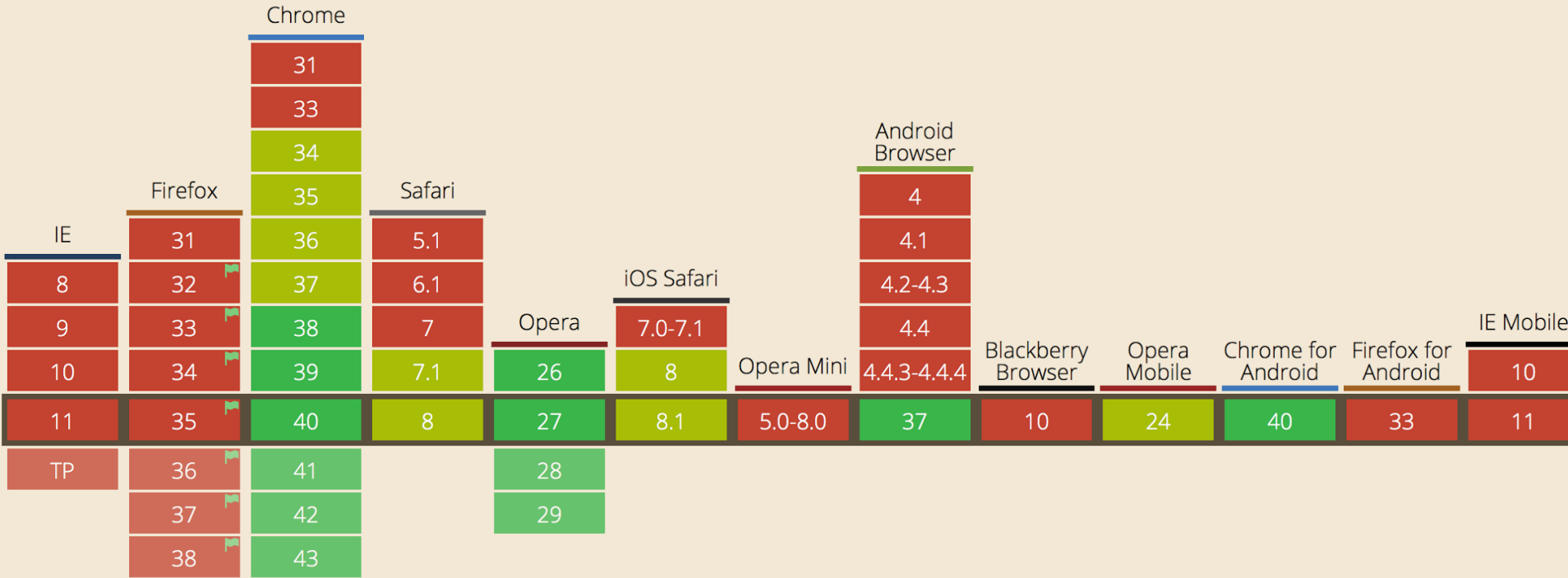
Global usage

40.06% + 9.46%

Allows authors to specify alternate high-resolution sources on `img` elements

Popular versions

All versions



Resources:

Improved support for high-resolution displays with the srcset image attribute

A responsive images method to control which image resource a user agent presents to a user, based on resolution, media query and/or support for a particular image format

Current aligned

Usage relative

Show all

IE	Firefox	Chrome	Safari	Opera	iOS Safari *	Opera Mini *	Android Browser *	C
		31						
		35						
		36					4.1	
8		1 37					4.3	
9		38					4.4	
10	3 34	39	7.1	26	7.1		4.4.4	
11	3 35	40	8	27	8.1	8	37	
TP	3 36	41		28				
	3 37	42		29				
	3 38	43						



Releases

Tags

Latest release

🏷 2.2.0

🔗 f8727be

Picturefill 2.2.0



Wilto released this on 19 Nov 2014 · **64 commits** to master since this release

Downloads, documentation, and examples:

<http://picturefill.responsiveimages.org>

Assorted bugfixes, improvements to compatibility in AMD environments, minor improvements to performance and spec compliance.



Source code (zip)



Source code (tar.gz)

Pre-release

Picturefill 2.2.0 Beta

srcset – benefit & problem

```

```

sizes

```
sizes="[query] size-value,  
      [query] size-value"
```

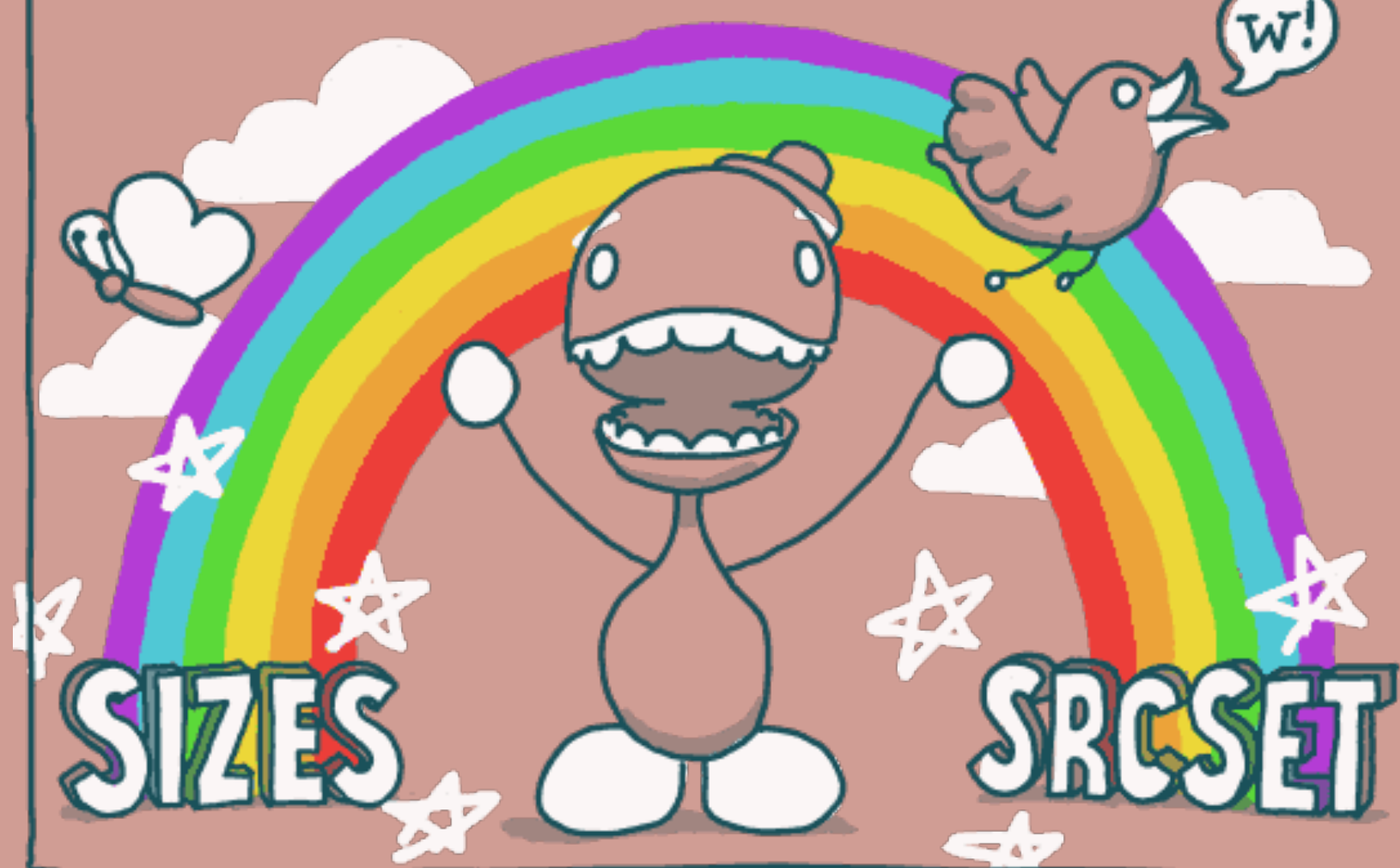
“If the srcset attribute is present, the sizes attribute may also be present”

sizes examples

```
sizes="(max-width: 768px) 100vw,  
50vw"
```

First matched, first served. Default:

```
sizes="100vw"
```



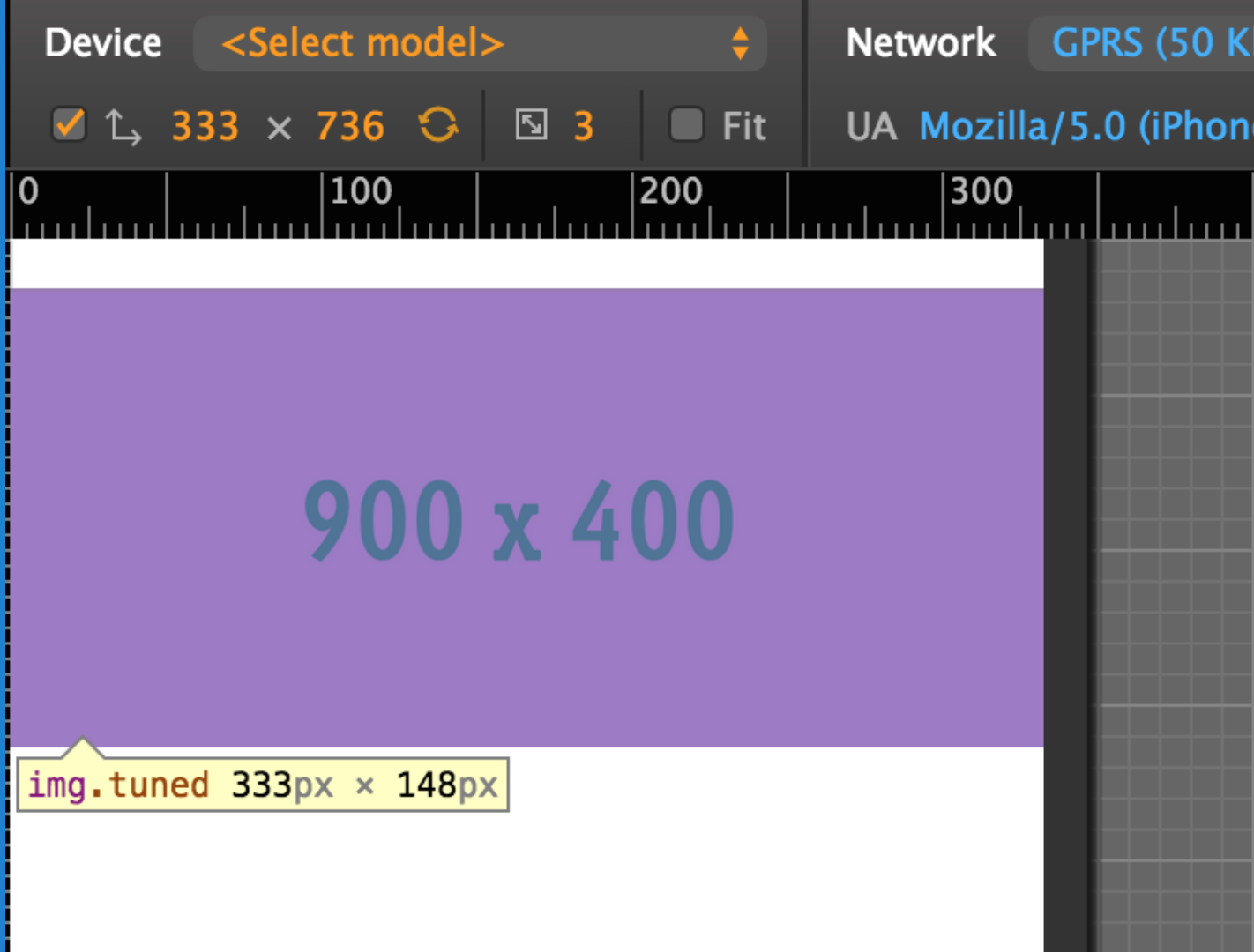
srcset & sizes - only benefit

```

```

Pixel density matters

3x



Quiz

When srcset is unsupported by the given browser, which image from the example markup below will be downloaded?

```

```

What problems does this bring?

Duplication of media queries from styles to markup, hence semantics mixed

What problems does this solve?

Browser will download only the images that are best fitting to the given use case, hence better use bandwidth

What problems does this solve?

Developer can leave the calculations of which image to use in a given case to the browser

Would you like to know more?

Please see the talk “Responsive images are coming to a browser near you” by Yoav Weiss at VelocityConf 2014

youtube.com/watch?v=GC3VgcltKKI

More further reading

Please also see the in depth post by Eric Portis about the topic:

ericportis.com/posts/2014/srcset-sizes

Thank you

I am Jukka Paasonen, a Responsive
Consultant at Siili Solutions

@paazmaya