

Joomla Mobile Performance: The Mythes Responsive

2013

This collage represents the state of Joomla mobile performance in 2013. It features several articles and reports, including:

- Less Power, is less More?** - Discusses power consumption and performance.
- How to use the Joomla!** - A guide for Joomla! users.
- Mobile performance: Joomla!** - A report on Joomla! mobile performance.
- Mobile performance: Joomla!** - Another report on Joomla! mobile performance.
- Mobile performance: Joomla!** - A third report on Joomla! mobile performance.
- Mobile performance: Joomla!** - A fourth report on Joomla! mobile performance.
- Mobile performance: Joomla!** - A fifth report on Joomla! mobile performance.
- Mobile performance: Joomla!** - A sixth report on Joomla! mobile performance.
- Mobile performance: Joomla!** - A seventh report on Joomla! mobile performance.
- Mobile performance: Joomla!** - An eighth report on Joomla! mobile performance.
- Mobile performance: Joomla!** - A ninth report on Joomla! mobile performance.
- Mobile performance: Joomla!** - A tenth report on Joomla! mobile performance.

2014

This collage represents the state of Joomla mobile performance in 2014. It features several articles and reports, including:

- Mobile performance: Joomla!** - A report on Joomla! mobile performance.
- Mobile performance: Joomla!** - Another report on Joomla! mobile performance.
- Mobile performance: Joomla!** - A third report on Joomla! mobile performance.
- Mobile performance: Joomla!** - A fourth report on Joomla! mobile performance.
- Mobile performance: Joomla!** - A fifth report on Joomla! mobile performance.
- Mobile performance: Joomla!** - A sixth report on Joomla! mobile performance.
- Mobile performance: Joomla!** - A seventh report on Joomla! mobile performance.
- Mobile performance: Joomla!** - An eighth report on Joomla! mobile performance.
- Mobile performance: Joomla!** - A ninth report on Joomla! mobile performance.
- Mobile performance: Joomla!** - A tenth report on Joomla! mobile performance.

Joomla Mobile Performance: The Mythes Responsive

2013

Less Power
More?

Mobile performance
much more!

What about updates

Network security

Yes... much more!

More... No! Support

Support Joomla!







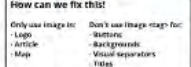


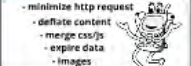
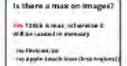


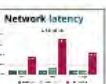










2014

Joomla 3.7

Mobile performance

Support Joomla!

2013

| | | | |
|---|--|--|--|
|  <p>Joomla! Mobile Performance: The Roadmap</p> |  <p>Is Joomla! mobile ready? J1.5? J2.5? J3.0?</p> |  <p>Less Power</p> |  <p>Is less More?</p> |
|  <p>Mobile Performance and is possible with Joomla!</p> |  <p>SPEED LIMIT 10</p> |  <p>How can we fix this? Only use image tag: Logo, Article, Map Don't use image tags for: Buttons, Backgrounds, Visual separators, Titles</p> |  <p>How do we optimize image using Data URI?</p> |
|  <p>Top 5</p> |  <p>minimize http request - deflate content - merge css/js - expire data - images</p> |  <p>Is there a max on images? Yes, 128k is max, not more than 64k for loaded or necessary No, 1024x1024 Yes, Apple Touch Icons (not required)</p> |  <p>Are there javascript frameworks for mobile? jQuery, MooTools, Prototype, Dojo, ExtJS, YUI, etc.</p> |
|  <p>Is this the same with mobile performance? Yes, but there is much more!</p> |  <p>Network latency</p> |  <p>What about @font-face? @font-face is not supported in all browsers @font-face is not supported in all browsers @font-face is not supported in all browsers</p> |  <p>Can we validate test our mobile website? Google Analytics, Google Analytics, Google Analytics</p> |
|  <p>Joomla! Mobile</p> |  <p>Hundred of different devices</p> |  <p>What is a responsive site?</p> |  <p>Responsive Myths</p> |
|  <p>Local Storage</p> |  <p>Responsive Myths</p> |  <p>Responsive Myths</p> |  <p>Responsive Myths</p> |

My name: Ray Bogman



- Joomla!/Magento evangelist
- Trainer
- Performance nerd
- Security geek

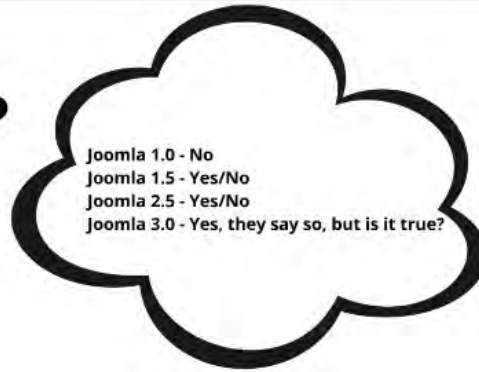
@SupportDesk.nu





**Joomla Mobile
Performance:
The Responsive
Mythes**

Is Joomla! mobile ready?



Joomla 1.0 - No
Joomla 1.5 - Yes/No
Joomla 2.5 - Yes/No
Joomla 3.0 - Yes, they say so, but is it true?

J1.0?

J1.5?

J2.5?

J3.0?



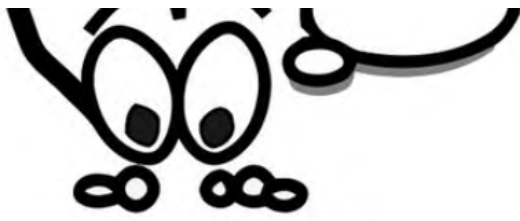


Joomla 1.0 - No

Joomla 1.5 - Yes/No

Joomla 2.5 - Yes/No

Joomla 3.0 - Yes, they say so, but is it true?



What is
Mobile Performance?

and is it
**possible with
Joomla!**



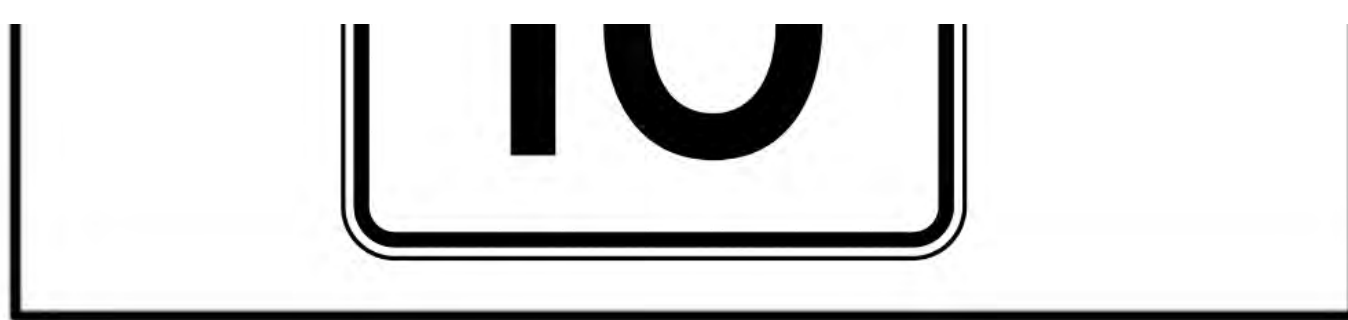
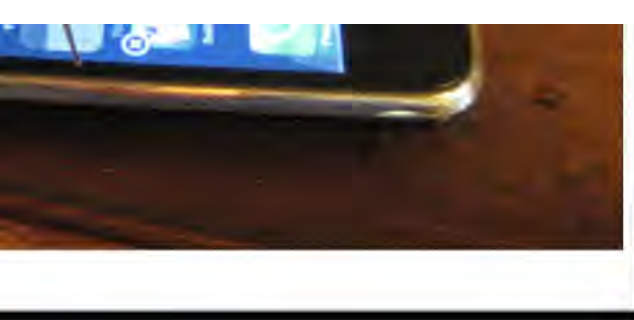
Top 5

- **minim**
defl

Top 5

basic performance



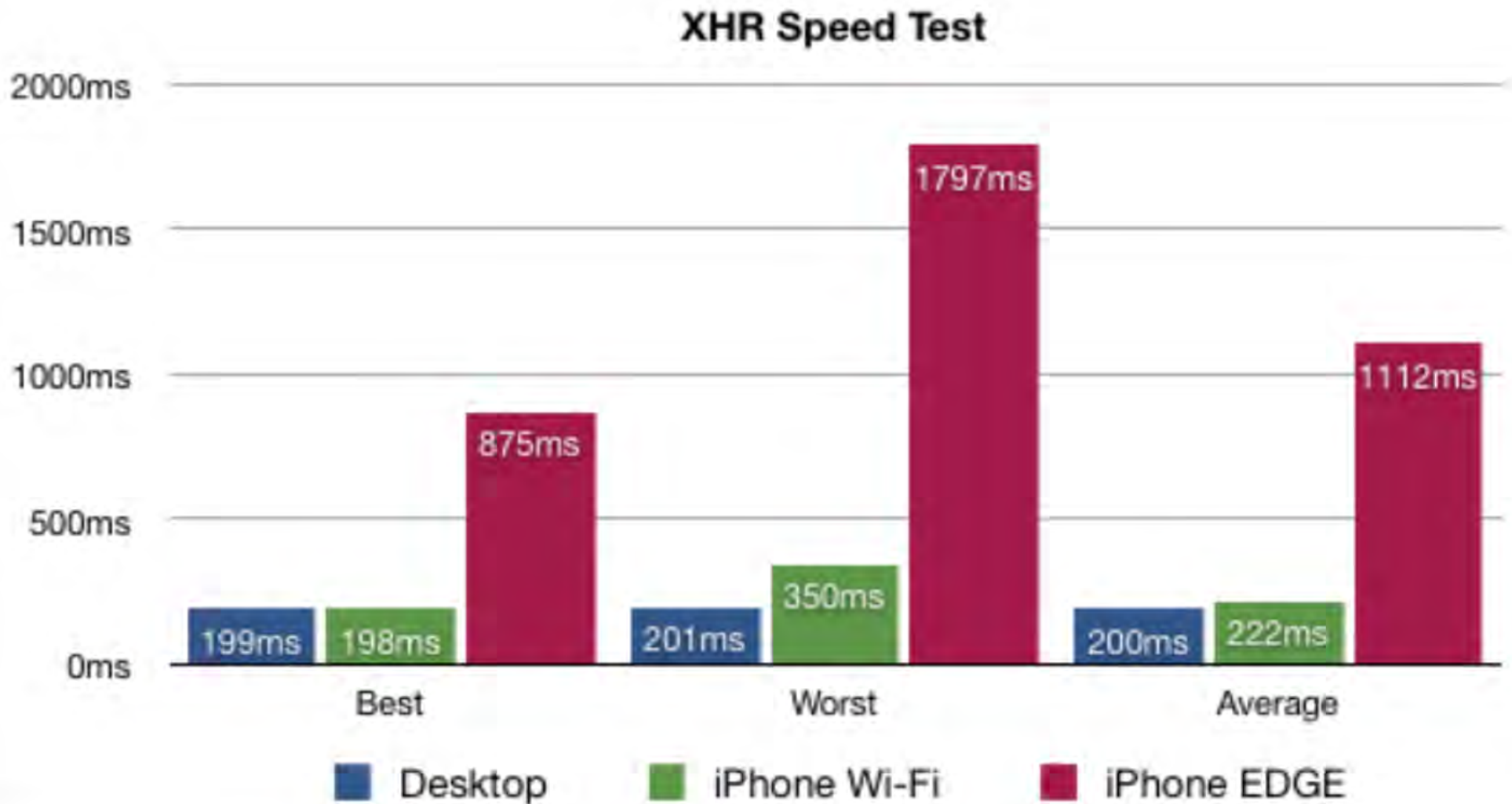


- minimize http request
- deflate content
- merge css/js
- expire data
- images



Network **latency**

Network latency



How do we optimize image using Data URI's?

```
1 /* Data URI images */  
2 #top{background-image:url  
  (data:image/  
  gif;base64,R0lGODlhAQACAIAAAP///  
  01NTSH5BAAAAAAALAAAAABAAIAAAICDA  
  oA0w==)}  
3 #nav-home a,#nav-services a,#nav-  
  about a,#nav-contact a  
  {background-image:url(data:image/  
  png;base64,iVBORw0KGgoAAAANSUg  
  AAAIVAAAALCAVAAAAD1nIMVAAAACVDFWHD
```

```
1 /* Data URI images */
2 #top{background-image:url
  (data:image/
  gif;base64,R0lGODlhAQACIAAAP///
  01NTSH5BAAAAAAALAAAAAABAAIAAAICDA
  oA0w==)}
3 #nav-home a,#nav-services a,#nav-
  about a,#nav-contact a
  {background-image:url(data:image/
  png;base64,iVBORw0KGgoAAAANSUhEUg
  AAAAYAAAAALCAYAAAAD1nTMVAAAACXRFWHp
```

- no apple-touch-icon (less request)

Tools: Javascript



What about @font-face

@font-face {

font-family: Fertigo;

src: url("Fertigo_PRO.otf") format("opentype"); }

h1 { font-family: Fertigo; color: #204A87;

text-shadow: #AAA 2px 2px 0px }

- not every mobile device supports this
- Using an extra request to eg. google-fonts: this does not speed up

What is a manifest file, and do I need this?

```
1 CACHE MANIFEST
2 #version 1
3
4 CACHE:
```

Can we va

- not always a good idea
- know your browser
- penalty on every subsequent page rendering

Can we validate/test our mobile website?

- google pagespeed insight - mobile
- ready.mobi
- mobileperf - firebug mobile
- validator.w3.org/mobile/
- weinre



Mythes

trick to auto



- store images in base64 offline storage for usage as inline images later
- Client Storage (localStorage and sessionStorage)
- Safari on iOS accepts up to 5 MB in offline storage

what's the **story** on these

Responsive Mythes



Responsive is a **very nice trick** to auto detect the browser size and scale. Does it **satisfy** on all the performance needs I showed before?

Consider a couple of things before you just pick a responsive theme.

It's **not** the one and only solution for the best optimized mobile website!

Joomla Mobile Performance:

The Responsive Mythes



2014

Is Joomla! mobile ready?



Joomla 1.0 - No
Joomla 1.5 - Yes/No
Joomla 2.5 - Yes/No
Joomla 3.0 - Yes, they say so, but is it true?

Joomla 3.0

The following information below is from the Joomla! 3 Introduction site <#>.

Mobile Ready

Joomla! takes a big leap into the mobile space with a total overhaul of both its frontend design and administrator interface. With the adoption of the Bootstrap framework, Joomla! has become the first major CMS to be mobile ready in both the visitor and administrator areas. Now every website can have mobile friendly content for visitors and mobile friendly tools for administrators.

- Fully Responsive Site Template
- Fully Responsive Admin UI
- Fully Responsive Core Output

</wrong questions or understandment>

"User don't give a s**t if your site is responsive."

RWD is not the

"Look ma!, I resize the browser's windows and it's reponsive"

WD

RWD



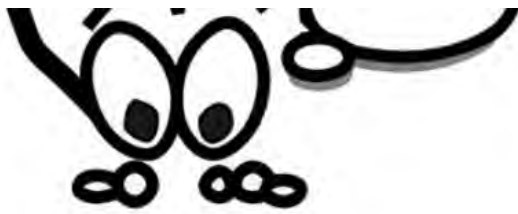
Joomla 3.0

The following information below is from the [Joomla! 3 Introduction site](#).

Mobile Ready

Joomla! takes a big leap into the mobile space with a total overhaul of both its frontend design and administrator interface. With the adoption of the Bootstrap framework, Joomla! has become the first major CMS to be mobile ready in both the visitors and administrator areas. Now every website can have mobile friendly content for visitors and mobile friendly tools for administrators.

- Fully Responsive Site Template
- Fully Responsive Admin UI
- Fully Responsive Core Output



2014



How it should work:



How it works right now!



"There's still no relationship between screen size and bandwidth"

Browser landscape



You Can Run, But You C

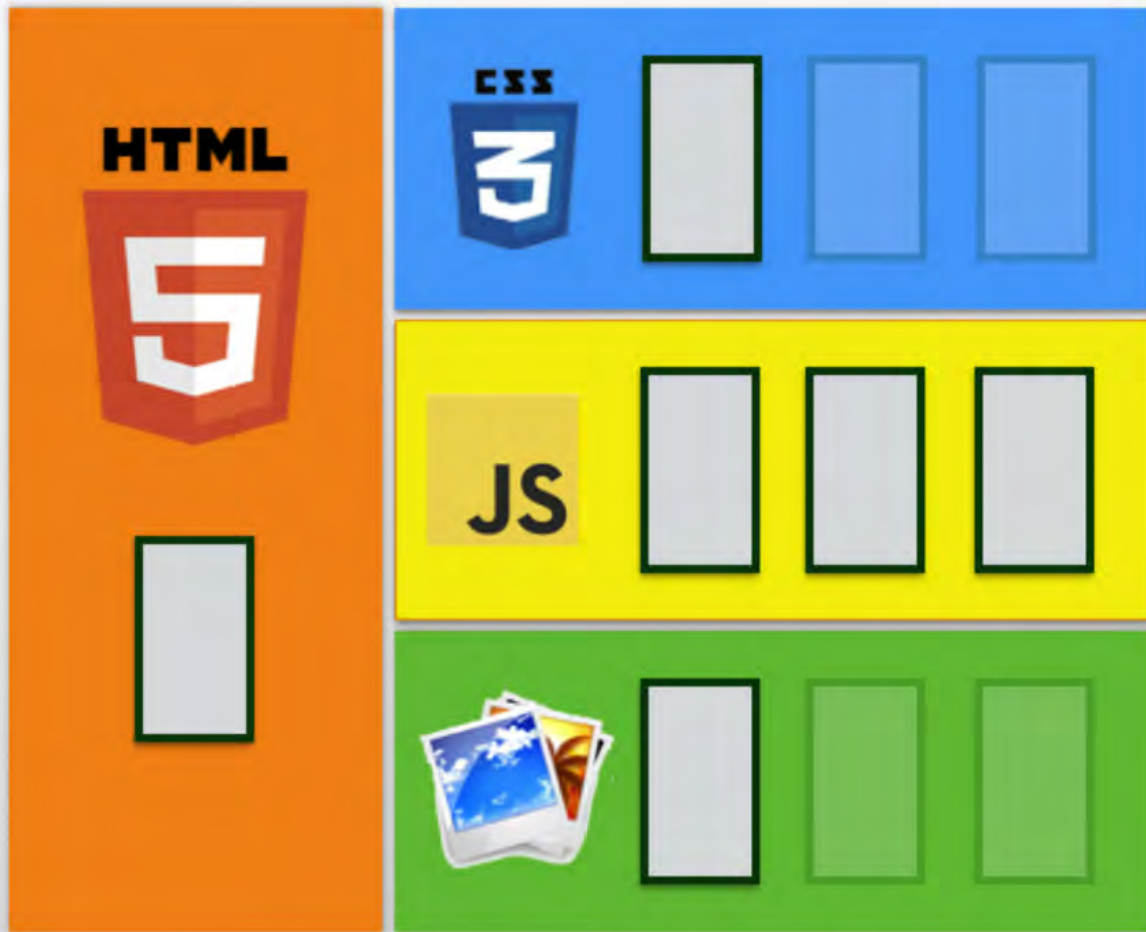
Keynote 3-screen Web Performance
Super Bowl 2014 Advertisers

Measurement period: 12/01/13 - 1/31/14
powered by: [Thinkbox](#) | [Google Analytics](#) | [Red 2 Analytics](#) | [iTrack](#) | [Pensacola](#)

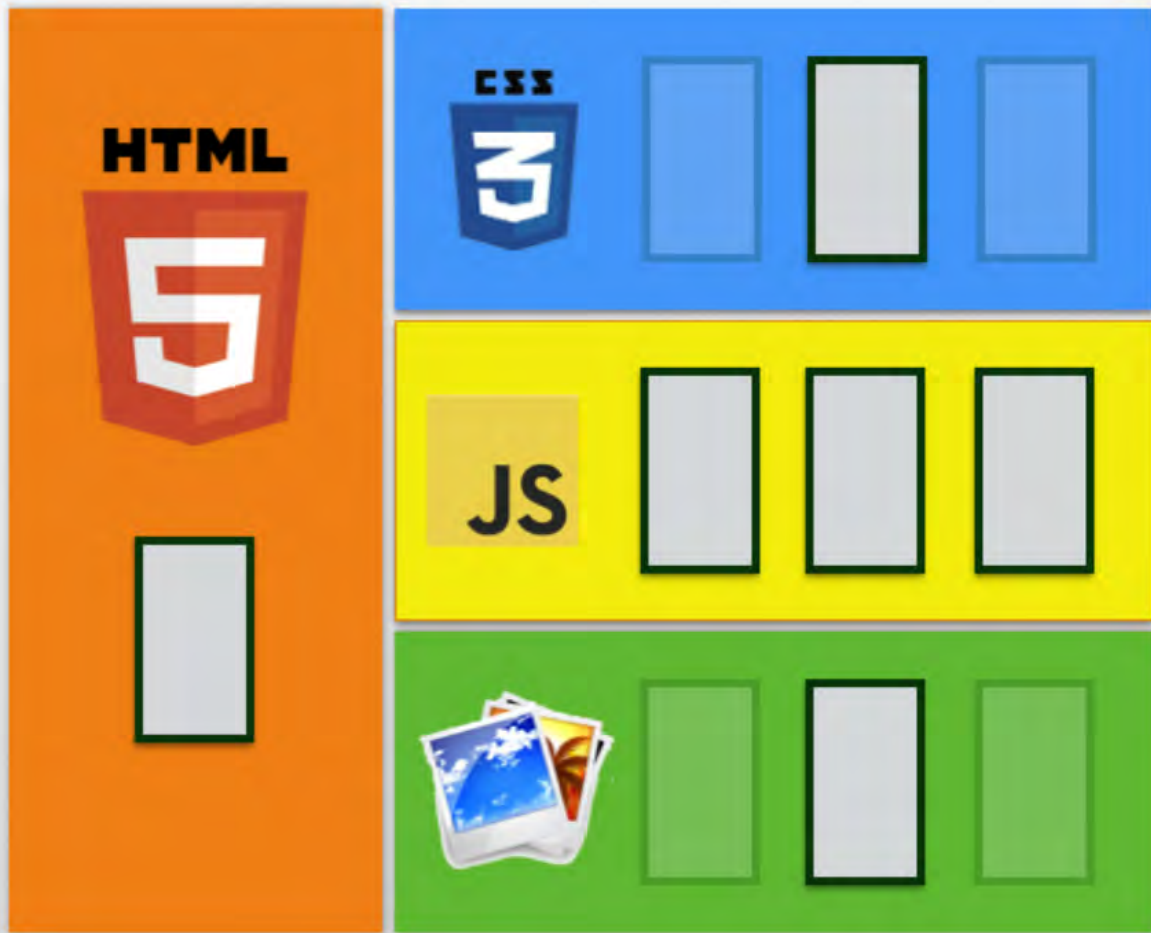


©2014 Time Warner

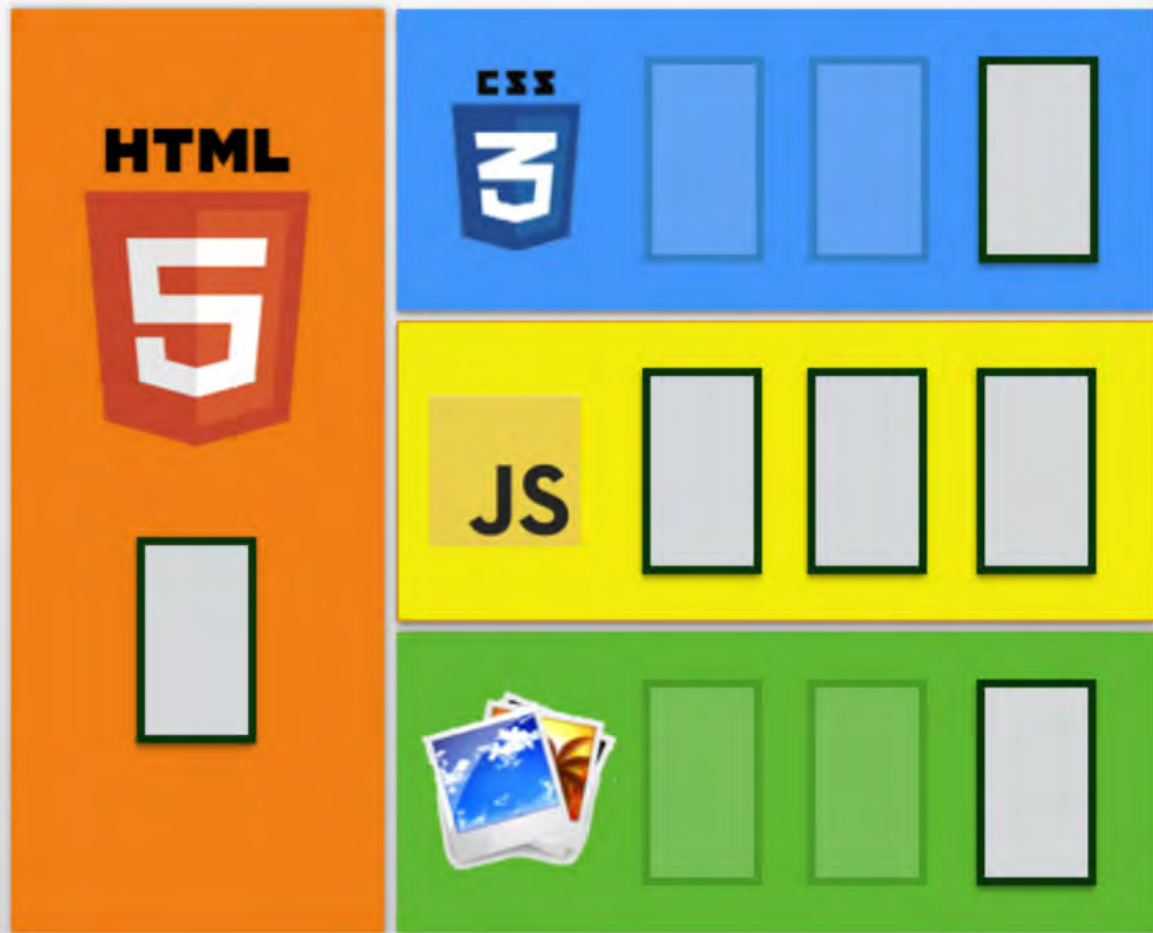
RWD



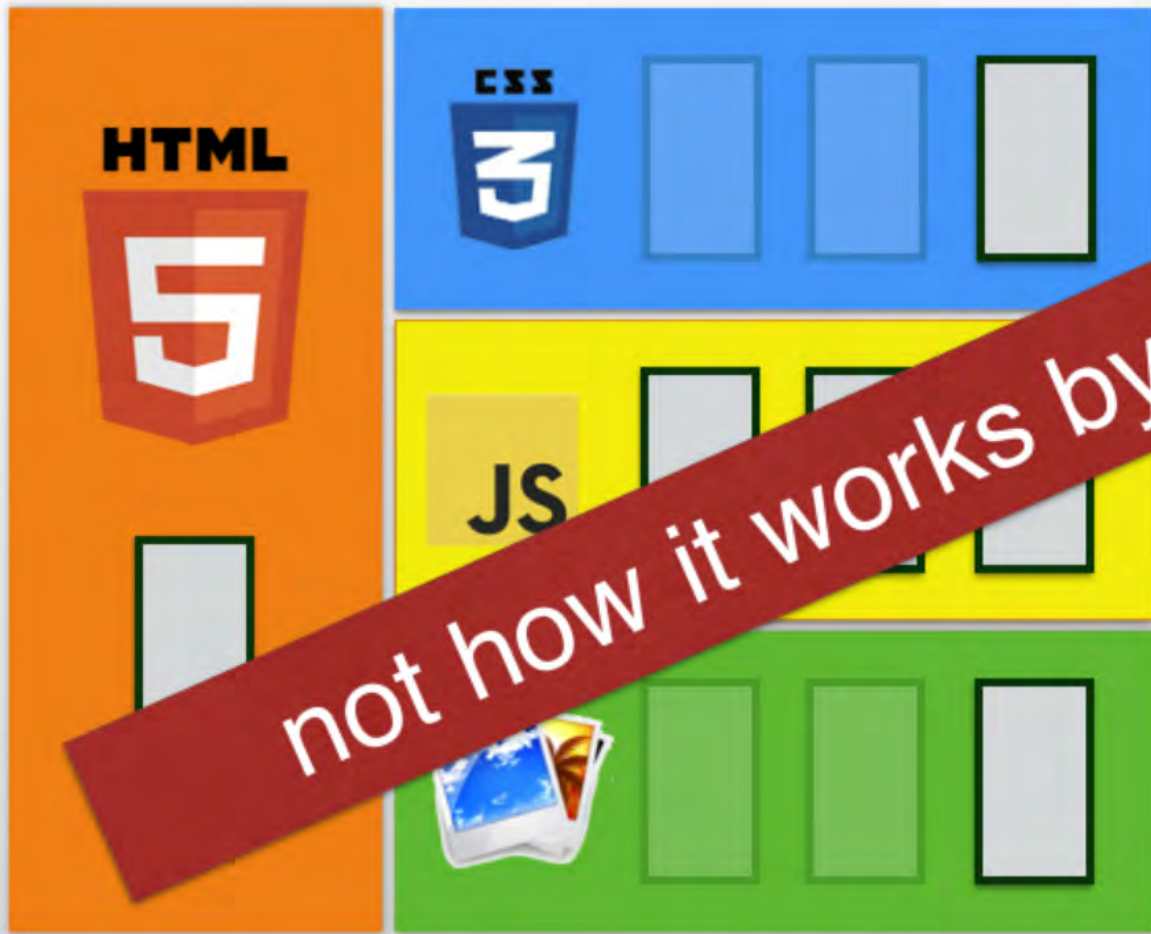
RWD



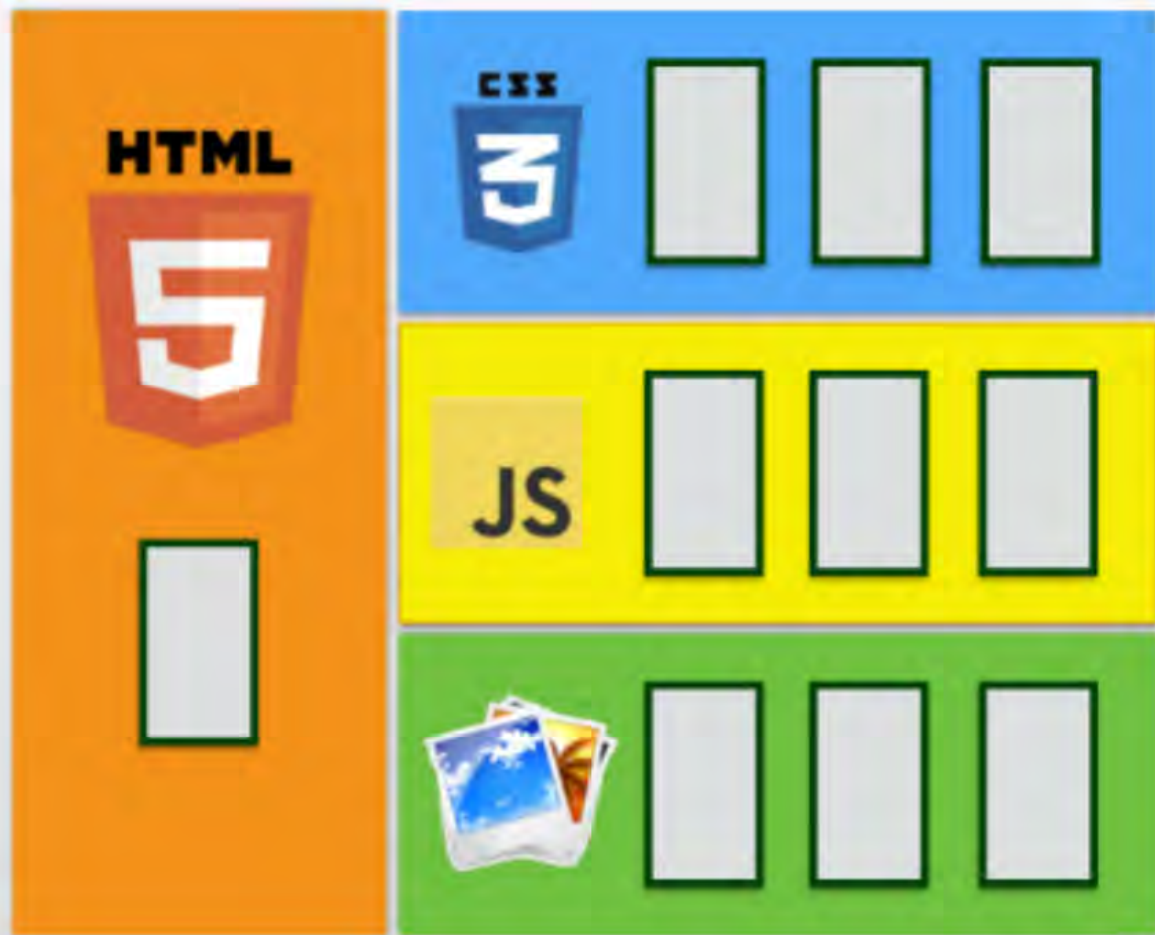
RWD



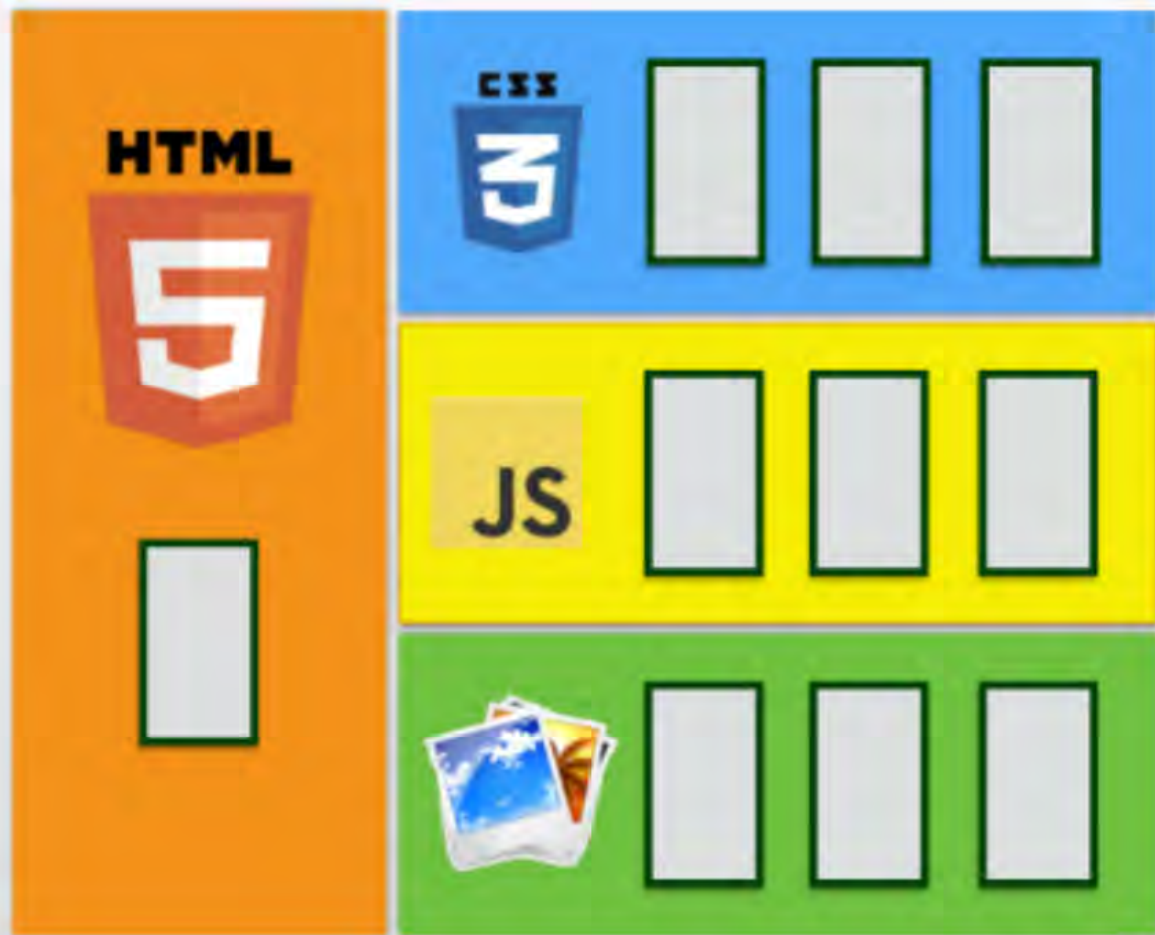
RWD



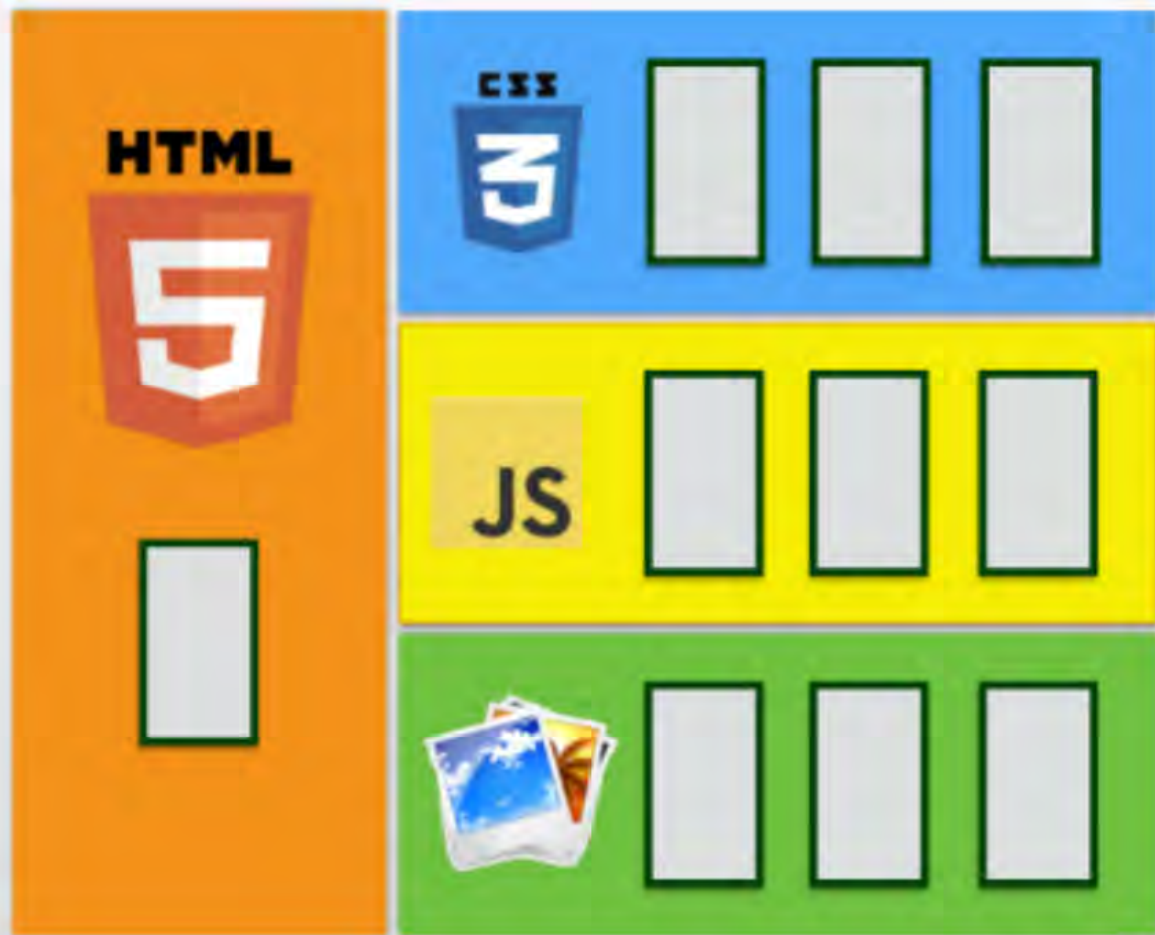
RWD



RWD



RWD



**"There's still no
relationship
between screen size
and bandwidth"**

</wrong questions or understanding>

"User don't give a st if your site is responsive."**

"Look ma!, I resize the browser's windows and it's reponsive"

RWD is not the replacement of understanding mobile

Your goal should be more conversions

Your goal should be:

**Usability
Speed
Accesibility**

Best Experience on each device and context


RWD is a tool

RWD is not a goal

RWD is not a silver bullet

"User don't give a st if your site is responsive."**

**RWD is not the
replacement of
understanding mobile**



**"Look ma!, I resize the
browser's windows and
it's reponsive"**

**Your goal should
be more
conversions**

Your goal should be:

Usability

Speed

Accessibility

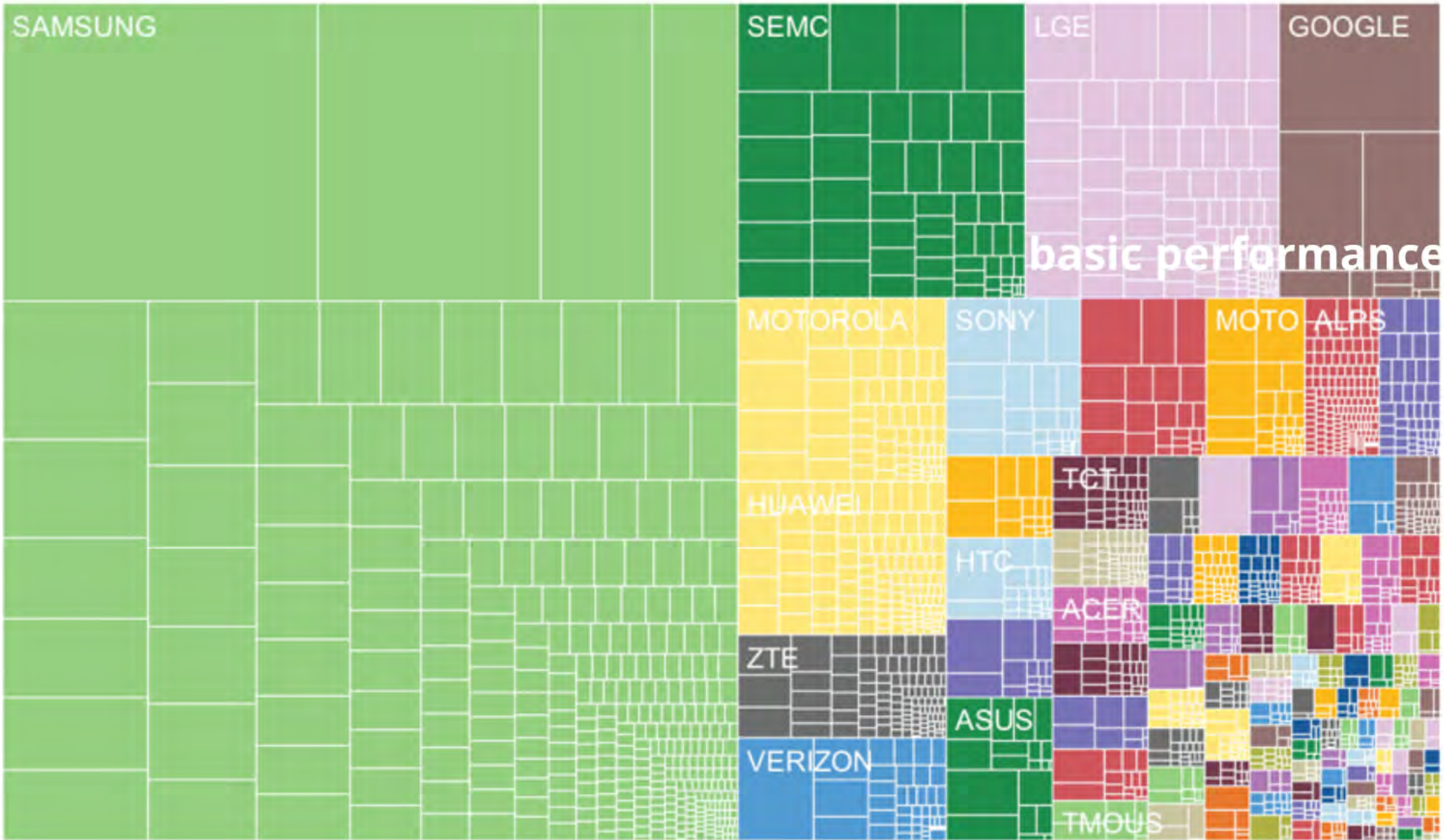
**Best Experience on each
device and context**

RWD is a tool

RWD is not a goal

RWD is not a silver bullet

Browser landscape



"There's still no relationship between screen size and bandwidth"

Your goal should be more conversions

Your goal should be:

Usability
Speed
Accessibility

Best Experience on each device and context

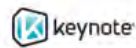
RWD is a tool

RWD is not a goal

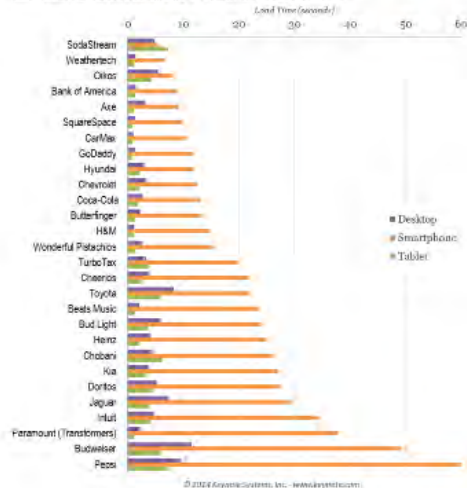
RWD is not a silver bullet

You Can Run, But You Can't Hide From Performance </Super Bowl 2013>

Keynote 3-screen Web Performance Super Bowl 2014 Advertisers



Measurement tool: 12/10/13 - 8/1/14 (PST) 2-Feb-2014
System: Desktop (Internet Explorer 9 browser, Firefox 17.0.2 speed/diagnostic) (Phone 3) (Notes cannot)



Responsive Web Design Rises at the Expense of Performance

| Site Type | Bytes (avg) | Sites |
|-----------|-------------|-------|
| Mobile | 882,369 | 12 |
| none | 1,681,507 | 2 |
| RWD | 3,288,855 | 14 |

50% of the sites we monitored used the RWD approach.

f their radios to conserve power.

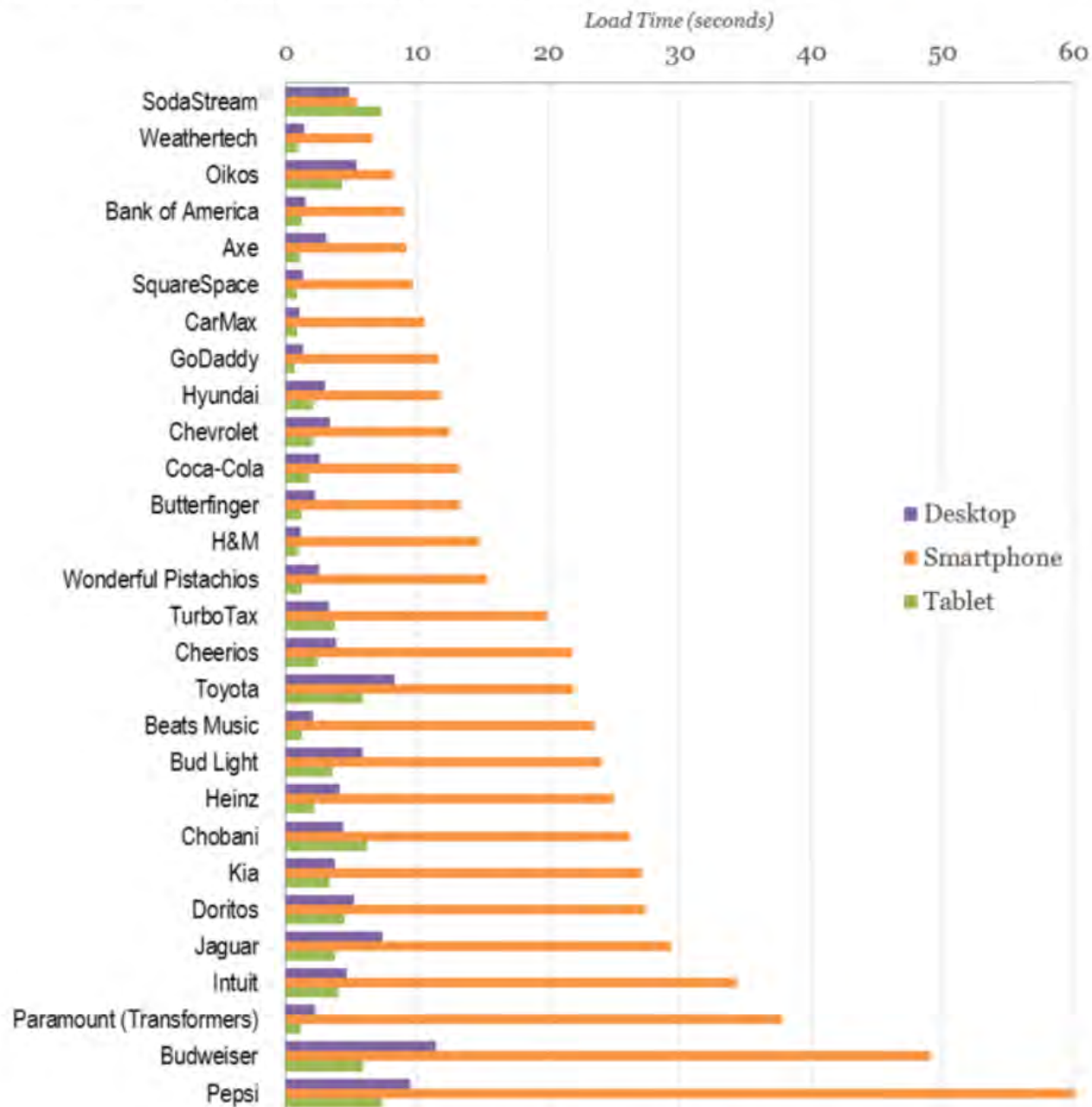
Test on real devices

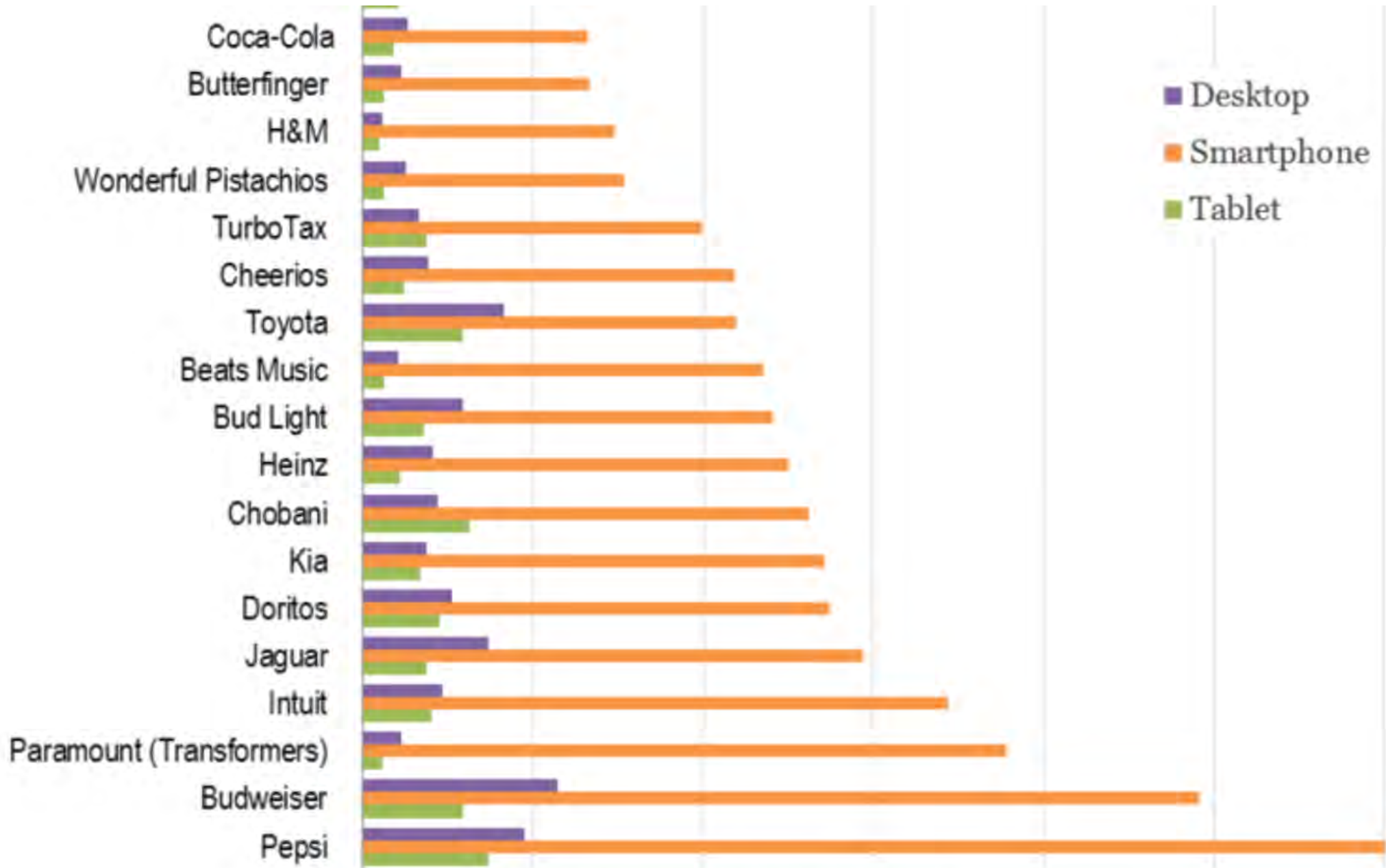
Keynote 3-screen Web Performance Super Bowl 2014 Advertisers



Measurement period: 12:00pm - 8pm PST, 2-Feb 2014

Screens: Desktop (Internet Explorer 9 browser), iPad 2 (high-speed connection), iPhone 5 (wireless carrier)

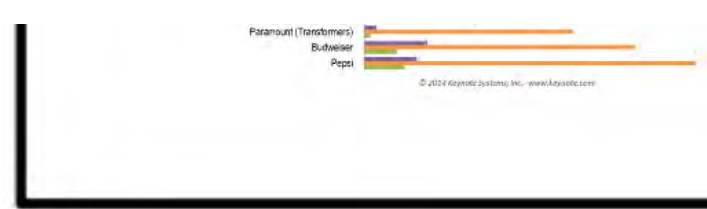
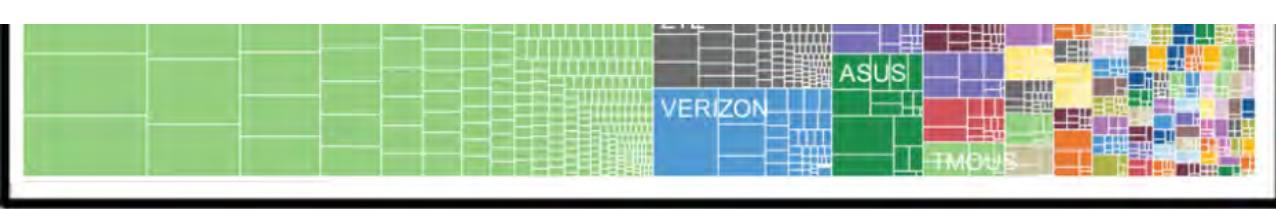




Responsive Web Design Rises at the Expense of Performance

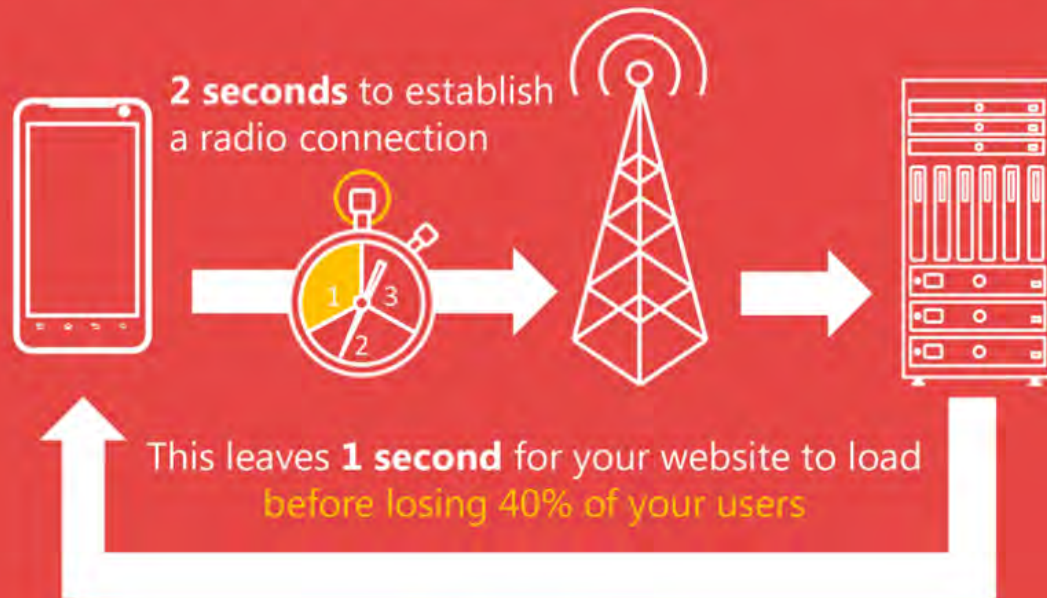
| Site Type | Bytes (avg) | Sites |
|-----------|-------------|-------|
| Mobile | 882,369 | 12 |
| none | 1,681,507 | 2 |
| RWD | 3,288,855 | 14 |

50% of the sites we monitored used the RWD approach.



Network latency

Mobile devices have little batteries. They turn off their radios to conserve power.



#GoldenSecond

| Network | Generation | Expected Latency |
|---------|------------|------------------|
| LTE | 4G | 40 - 50ms |
| HSPA+ | 3.75G | 100 - 200ms |
| HSPA | 3.5G | 150 - 200ms |
| EDGE | 2.75G | 600 - 750ms |
| GPRS | 2.5G | 600 - 750ms |

RESS: Responsive Design + Server Side Components

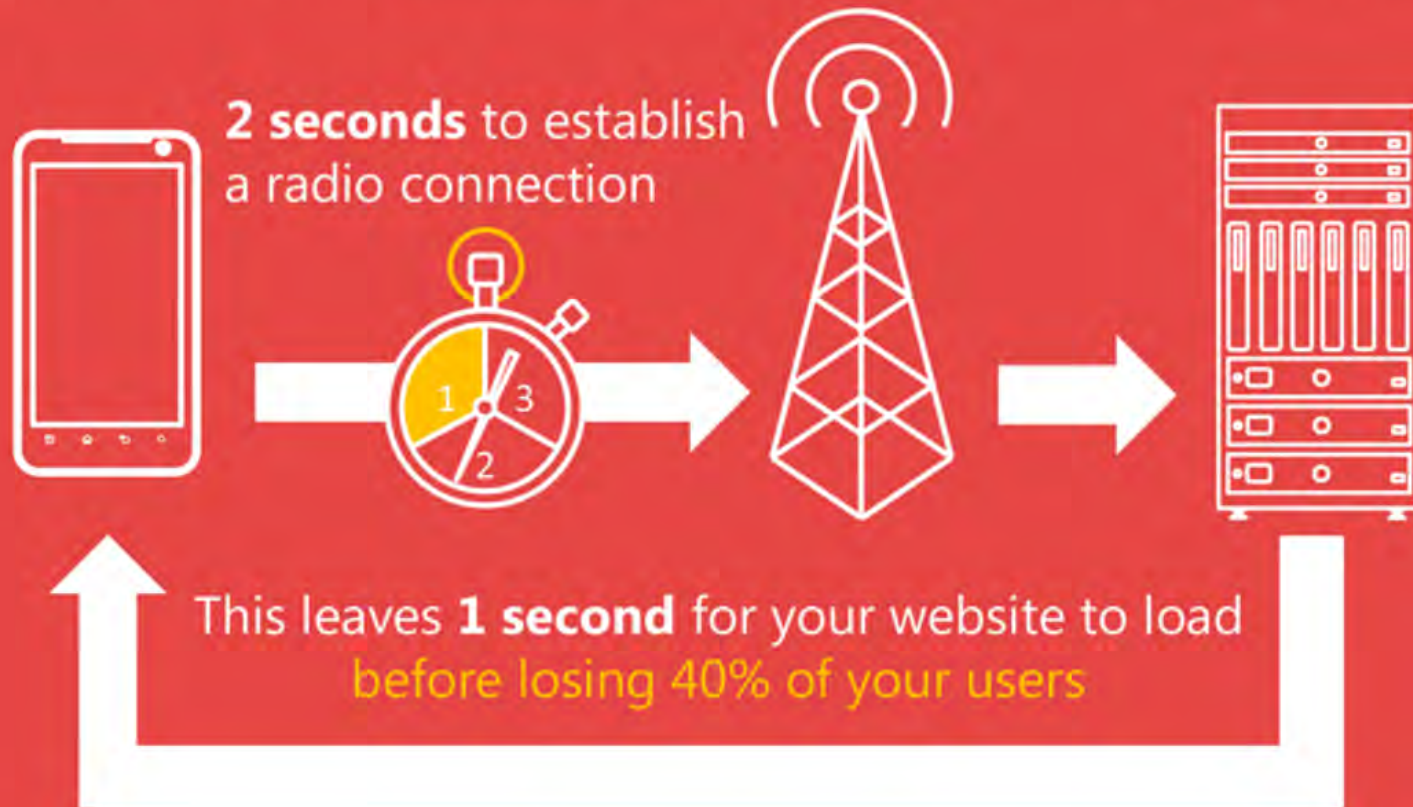
No black-box

Resonsive Images

responsive-images technique that assigns a particular background image to a div according to media-queries

```
<style>
@media (max-width:390px) {
#image-container {
max-width: 109px;
```

Mobile devices have little batteries. They turn off their radios to conserve power.



#GoldenSecond

| Network | Generation | Expected Latency |
|---------|------------|------------------|
| LTE | 4G | 40 - 50ms |
| HSPA+ | 3.75G | 100 - 200ms |
| HSPA | 3.5G | 150 - 200ms |
| EDGE | 2.75G | 600 - 750ms |
| GPRS | 2.5G | 600 - 750ms |

- Start Page
- Android 2.3.4
- Motorola Droid RAZR
Android 4.0.4
- Samsung Galaxy Nexus
Android 4.1.1
- Samsung Galaxy S II
Android 2.3.6
- Samsung SPH-L710 (Galaxy S III)
Android 4.1.1
- Samsung Galaxy S III - Deutsch
Android 4.0.4
- Nokia Lumia 710
Windows Phone 7 7.5.0
- LG Thrill 4G
Android 2.2.2

08:27 left
Need more time? Sign up for a [Test Center Developer trial](#)

Release Device

Latency: ●●●●●●●●



- Text Entry
- Restart/Wake Up
- Orientation
- Hardware Control
- View Screens
- Video Quality
- Audio ON/OFF
- Report Device Problem

Device Info: Samsung Galaxy S III - Deutsch

OS Version: Android 4.0.4

Resolution 1280x720

Home Browse website Record script Stop browsing Export HAR Save Run Free 7 day trial

Try MITE Pro for free Free Trial

Device Profile - Apple iPhone 5

http://www.exact.nl/

10:35 AM 85%

Om u als bezoeker zo goed mogelijk v

0 Login zoeken...

= exact

Home

Exact Online
Dé online bedrijfssoftware

4000+ ondernemen in de cloud

Software voor ondernemers

Met de bedrijfssoftware van Exact haalt u meer uit uw onderneming. Onze slimme oplossingen sluiten naadloos aan bij uw branche en bedrijfsprocessen.

MITE score

MITE score Performance view Scripting view DOM tree view

60 Grade C

What is this score?

Bytes downloaded: 661 KB
Bytes sent: 36 KB
Download time: 4148 msec
HTTP status code: 200
Number of domains: 10
Number of images: 43
Number of page elements: 81

| S... | Test description | Error ... | Total ... | Score |
|--------------------------------------|---------------------------|-----------|-----------|-------|
| Content | | | | |
| ✓ | HTTP errors? | 0 | 1 | 100 |
| ✓ | Image oversized? | 0 | 0 | 100 |
| Performance | | | | |
| ✓ | CSS at top? | 0 | 0 | 100 |
| ✓ | Combine CSS? | 0 | 0 | 100 |
| ✓ | Combine JS? | 0 | 0 | 100 |
| ✓ | Compress resources? | 0 | 1 | 100 |
| ✓ | JavaScript at bottom? | 0 | 0 | 100 |
| ⚠ | Keep alive? | 1 | 1 | 0 |
| ✓ | Use cache? | 0 | 0 | 100 |
| W3C Mobile Web Best Practices | | | | |
| ✓ | Alt for images? | 0 | 0 | 100 |
| ✓ | Auto refresh? | 0 | 0 | 100 |
| ✓ | Frames? | 0 | 0 | 100 |
| ✓ | Free text? | 0 | 0 | 100 |
| ✓ | Height and width in im... | 0 | 0 | 100 |
| ✗ | Page title? | 0 | 0 | 0 |
| ✓ | Pop ups? | 0 | 0 | 100 |
| ✓ | Table for layout? | 0 | 0 | 100 |
| ✓ | Table in table? | 0 | 0 | 100 |

What is this test?

Images should be set to the device screen size to fit.

| Status | URL | Conte... |
|-----------------------------|-----|----------|
| There are no items to show. | | |

[Requests](#) Page Summary

▼ Overview

Title [Exact Nederla...edrijfssoftware](#) >**Elapsed Time** 42.656 s

Network Round Trips 52

Downloaded Data 456875 bytes

Uploaded Data 24203 bytes

Compression Savings 758435 bytes

DNS Lookups 13

TCP Connects 35

▼ Page Events

| Render Start 3.497 s

| HTTP Load 42.656 s

| Page Load 42.693 s

[Requests](#) Page Summary

▼ Overview

Title [Exact Nederla...edrijfssoftware](#) >**Elapsed Time** 31.574 s

Network Round Trips 51

Downloaded Data 454396 bytes

Uploaded Data 23510 bytes

Compression Savings 758596 bytes

DNS Lookups 13

TCP Connects 35

▼ Page Events

| Render Start 3.866 s

| HTTP Load 31.574 s

| Page Load 31.578 s

[Requests](#) Page Summary

▼ Overview

Title [Exact Nederla...edrijfssoftware](#) >**Elapsed Time** 4.198 s

Network Round Trips 51

Downloaded Data 454274 bytes

Uploaded Data 23498 bytes

Compression Savings 758615 bytes

DNS Lookups 13

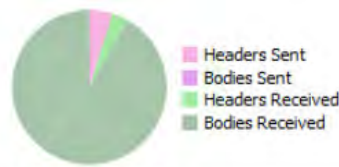
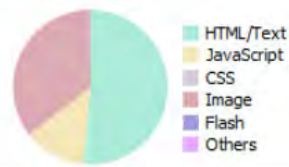
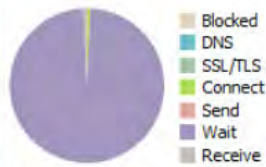
TCP Connects 34

▼ Page Events

| Render Start 3.599 s

| HTTP Load 4.198 s

| Page Load 4.203 s



Exact Nederland - ERP, CRM, HRM, Financieel, boekhoudsoftware en bedrijfssoftware

| Request | Status | Size | Time |
|---------------------------|-----------|----------|--------|
| GET www.exact.nl | 200 OK | 218.2 KB | 3.26s |
| GET lightbox.js?wkv=1.4 | 200 OK | 6 KB | 265ms |
| GET mediaelement-and- | 200 OK | 17.1 KB | 297ms |
| GET spotlight.js?wkv=1. | 200 OK | 1 KB | 222ms |
| GET template-3a031592 | 200 OK | 6.9 KB | 106ms |
| GET cookies.js | 200 OK | 2.8 KB | 127ms |
| GET logo-exact-red.png | 200 OK | 5.4 KB | 138ms |
| GET demodag-text.png | 200 OK | 16.4 KB | 28.3s |
| GET logo-demodag-sma | 200 OK | 4.5 KB | 27.94s |
| GET icon-44-balloons.pn | 200 OK | 1.5 KB | 155ms |
| GET icon-44-phone.png | 200 OK | 2.2 KB | 28.01s |
| GET icon-44-calendar.pn | 200 OK | 1.2 KB | 171ms |
| GET cta-nl-home-sepa.p | 200 OK | 9.1 KB | 27.93s |
| GET icon-social-linkedin. | 200 OK | 3 KB | 175ms |
| GET icon-social-twitter.p | 200 OK | 3.2 KB | 27.93s |
| GET icon-social-facebool | 200 OK | 3.2 KB | 22.31s |
| GET icon-social-youtube | 200 OK | 2.4 KB | 23.97s |
| GET logo-dekok-off.jpg | 200 OK | 2.1 KB | 28.01s |
| GET logo-smeg-off.jpg | 200 OK | 1.5 KB | 22.3s |
| GET logo-stadsregiordar | 200 OK | 1.3 KB | 27.92s |
| GET logo-buisman-off.jp | 200 OK | 2 KB | 217ms |
| GET logo-cube-off.jpg | 200 OK | 2.1 KB | 27.93s |
| GET logo-tebodin-off.jpg | 200 OK | 1.9 KB | 219ms |
| GET logo-hoppe-off.jpg | 200 OK | 1.3 KB | 27.93s |
| GET logo-crop-off.jpg | 200 OK | 1.7 KB | 245ms |
| GET linkedin.png | 200 OK | 1.1 KB | 27.99s |
| GET facebook.png | 200 OK | 1.2 KB | 27.9s |
| GET googleplus.png | 200 OK | 1.6 KB | 269ms |
| GET twitter.png | 200 OK | 1021 B | 275ms |
| GET logo-exact-bottom. | 200 OK | 4.5 KB | 27.93s |
| GET ga.js | 200 OK | 15.3 KB | 171ms |
| GET bg-body2.png | 200 OK | 1020 B | 136ms |
| GET js_visitor_settings.i | 200 OK | 31 B | 210ms |
| GET __utm.gif?utmwv=! | 200 OK | 35 B | 83ms |
| GET bg-link-list.png | 200 OK | 1.1 KB | 104ms |
| GET totop_scroller.png | 200 OK | 1.4 KB | 98ms |
| GET rss.png | 200 OK | 937 B | 100ms |
| GET 1063479471?randoi | 302 Move | 76 B | 165ms |
| GET slideshow.js?wkv=1 | 200 OK | 4.9 KB | 131ms |
| GET elqCfg.min.js | 200 OK | 1.6 KB | 190ms |
| GET login-arrow.png | 200 OK | 1 KB | 58ms |
| GET icon-trolley.png | 200 OK | 3.1 KB | 61ms |
| GET searchbox_magnifx | 200 OK | 411 B | 75ms |
| GET overlay.png | 404 Not F | 792 B | 246ms |
| GET close.png | 200 OK | 3 KB | 121ms |
| GET sepa-text.png | 200 OK | 14.5 KB | 121ms |
| GET eol-text.png | 200 OK | 49.8 KB | 188ms |
| GET 1063479471?label= | 302 Move | 303 B | 166ms |
| GET svrGP?pps=3&siteik | 302 Move | 220 B | 377ms |
| GET 1063479471?label= | 200 OK | 76 B | 139ms |
| GET svrGP.aspx?pps=38 | 200 OK | 49 B | 187ms |

51 Requests

427.2 KB

31.58s (onload: 31.58s)



Exact Nederland - ERP, CRM, HRM, Financieel, boekhoudsoftware en bedrijfssoftware

| Request | Status | Size | Time |
|---------------------------|-----------|----------|-------|
| GET www.exact.nl | 200 OK | 218.2 KB | 2.98s |
| GET lightbox.js?wkv=1.4 | 200 OK | 6 KB | 79ms |
| GET mediaelement-and- | 200 OK | 17.1 KB | 122ms |
| GET spotlight.js?wkv=1. | 200 OK | 1 KB | 83ms |
| GET template-3a031592 | 200 OK | 6.9 KB | 92ms |
| GET cookies.js | 200 OK | 2.8 KB | 46ms |
| GET logo-exact-red.png | 200 OK | 5.4 KB | 160ms |
| GET demodag-text.png | 200 OK | 16.4 KB | 170ms |
| GET logo-demodag-sma | 200 OK | 4.5 KB | 101ms |
| GET icon-44-balloons.pn | 200 OK | 1.5 KB | 102ms |
| GET icon-44-phone.png | 200 OK | 2.2 KB | 120ms |
| GET icon-44-calendar.pn | 200 OK | 1.2 KB | 90ms |
| GET cta-nl-home-sepa.p | 200 OK | 9.1 KB | 163ms |
| GET icon-social-linkedin. | 200 OK | 3 KB | 108ms |
| GET icon-social-twitter.p | 200 OK | 3.2 KB | 98ms |
| GET icon-social-facebool | 200 OK | 3.2 KB | 98ms |
| GET icon-social-youtube | 200 OK | 2.4 KB | 111ms |
| GET logo-dekok-off.jpg | 200 OK | 2.1 KB | 108ms |
| GET logo-smeg-off.jpg | 200 OK | 1.5 KB | 107ms |
| GET logo-stadsregiordar | 200 OK | 1.3 KB | 114ms |
| GET logo-buisman-off.jp | 200 OK | 2 KB | 114ms |
| GET logo-cube-off.jpg | 200 OK | 2.1 KB | 103ms |
| GET logo-tebodin-off.jpg | 200 OK | 1.9 KB | 115ms |
| GET logo-hoppe-off.jpg | 200 OK | 1.3 KB | 98ms |
| GET logo-crop-off.jpg | 200 OK | 1.7 KB | 104ms |
| GET linkedin.png | 200 OK | 1.1 KB | 111ms |
| GET facebook.png | 200 OK | 1.2 KB | 109ms |
| GET googleplus.png | 200 OK | 1.6 KB | 111ms |
| GET twitter.png | 200 OK | 1021 B | 112ms |
| GET logo-exact-bottom. | 200 OK | 4.5 KB | 114ms |
| GET ga.js | 200 OK | 15.3 KB | 83ms |
| GET bg-body2.png | 200 OK | 1020 B | 46ms |
| GET js_visitor_settings.i | 200 OK | 31 B | 111ms |
| GET __utm.gif?utmwv=5 | 200 OK | 35 B | 71ms |
| GET bg-link-list.png | 200 OK | 1.1 KB | 50ms |
| GET totop_scroller.png | 200 OK | 1.4 KB | 44ms |
| GET rss.png | 200 OK | 937 B | 48ms |
| GET 1063479471?randor | 302 Move | 76 B | 102ms |
| GET slideshow.js?wkv=1 | 200 OK | 4.9 KB | 47ms |
| GET elqCfg.min.js | 200 OK | 1.6 KB | 107ms |
| GET login-arrow.png | 200 OK | 1 KB | 65ms |
| GET icon-trolley.png | 200 OK | 3.1 KB | 82ms |
| GET searchbox_magnific | 200 OK | 411 B | 64ms |
| GET overlay.png | 404 Not F | 792 B | 299ms |
| GET close.png | 200 OK | 3 KB | 85ms |
| GET 1063479471?label= | 302 Move | 303 B | 114ms |
| GET sepa-text.png | 200 OK | 14.5 KB | 80ms |
| GET eol-text.png | 200 OK | 49.8 KB | 87ms |
| GET svrGP?pps=3&siteic | 302 Move | 220 B | 309ms |
| GET 1063479471?label= | 200 OK | 76 B | 108ms |
| GET svrGP.aspx?pps=3& | 200 OK | 49 B | 202ms |

51 Requests

427.2 KB

4.2s (onload: 4.21s)

Pages (117) - <http://www.exact.nl>

Test performed Fri Mar 21 12:37:39 CET 2014 with sitespeed.io-mobile rules.





















IP: unknown User-Agent: Mozilla/5.0 (iPhone; CPU iPhone OS 6_0 like Mac OS X) AppleWebKit/536.26 (KHTML, like Gecko) Version/6.0 Mobile/10A5376e Safari/8536.25 Viewport: 320x444





























| url | js | css | img | total requests | requests missing | expire | page size (kb) | browser scaled images | critical path score | server Response Time | dom Content Loaded Time | rule score |
|---|----|-----|-----|----------------|------------------|--------|----------------|-----------------------|---------------------|----------------------|-------------------------|------------|
| http://www.exact.nl/aangifte | 18 | 9 | 8 | 49 | 2 | | 976.1 | 0 | 0 | | | 73 |
| http://www.exact.nl/algemene-voorwaarden-exact | 18 | 9 | 6 | 47 | 2 | | 940.1 | 0 | 0 | | | 74 |
| http://www.exact.nl/app-center | 18 | 9 | 6 | 47 | 2 | | 940.7 | 0 | 0 | | | 73 |
| http://www.exact.nl/appcenter | 20 | 12 | 11 | 60 | 2 | | 994.8 | 0 | 0 | | | 72 |
| http://www.exact.nl/cookies | 18 | 9 | 6 | 47 | 2 | | 945.8 | 0 | 0 | | | 74 |
| http://www.exact.nl/customer-login | 18 | 9 | 8 | 49 | 3 | | 941.2 | 0 | 0 | | | 72 |
| http://www.exact.nl/disclaimer | 18 | 9 | 6 | 47 | 2 | | 941.7 | 0 | 0 | | | 73 |
| http://www.exact.nl/employee-login | 18 | 9 | 7 | 48 | 2 | | 940.1 | 0 | 0 | | | 73 |
| http://www.exact.nl/exact-online/nieuwsbrief | 21 | 9 | 5 | 43 | 34 | | 1193.2 | 0 | 0 | | | 67 |
| http://www.exact.nl/exact-online/producten/accountancy | 20 | 9 | 17 | 57 | 46 | | 2412.4 | 10 | 0 | | | 63 |
| http://www.exact.nl/exact-online/ | 19 | 9 | 18 | 61 | 51 | | 1715.2 | 0 | 0 | | | 66 |
| http://www.exact.nl/klant-trainingen/cursussen-en-trainingen | 21 | 11 | 16 | 61 | 2 | | 1025.4 | 0 | 0 | | | 72 |
| http://www.exact.nl/klant-trainingen/exact-globe | 19 | 10 | 16 | 59 | 2 | | 1014.2 | 0 | 0 | | | 72 |
| http://www.exact.nl/klant-trainingen/exact-synergy-enterprise | 21 | 11 | 16 | 61 | 2 | | 1029.2 | 0 | 0 | | | 73 |

Pages (117) - <http://www.exact.nl>

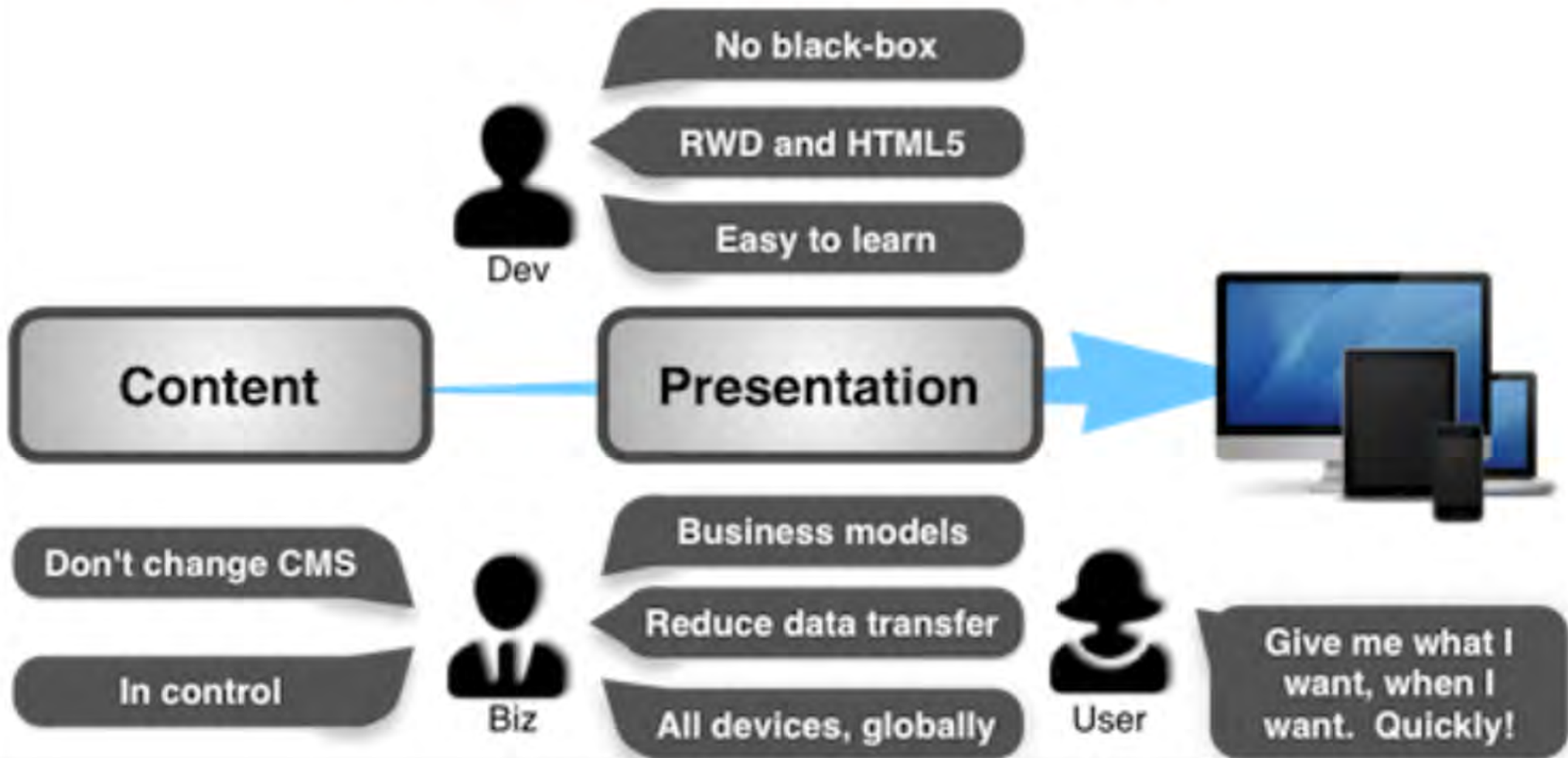
Test performed Fri Mar 21 12:37:39 CET 2014 with sitespeed.io-mobile rules.

IP: unknown User-Agent: Mozilla/5.0 (iPhone; CPU iPhone OS 6_0 like Mac OS X) AppleWebKit/536.26 (KHTML, like Gecko) Version/6.0 Mobile/10A5376e Safari/8536.25 Viewport: 320x444

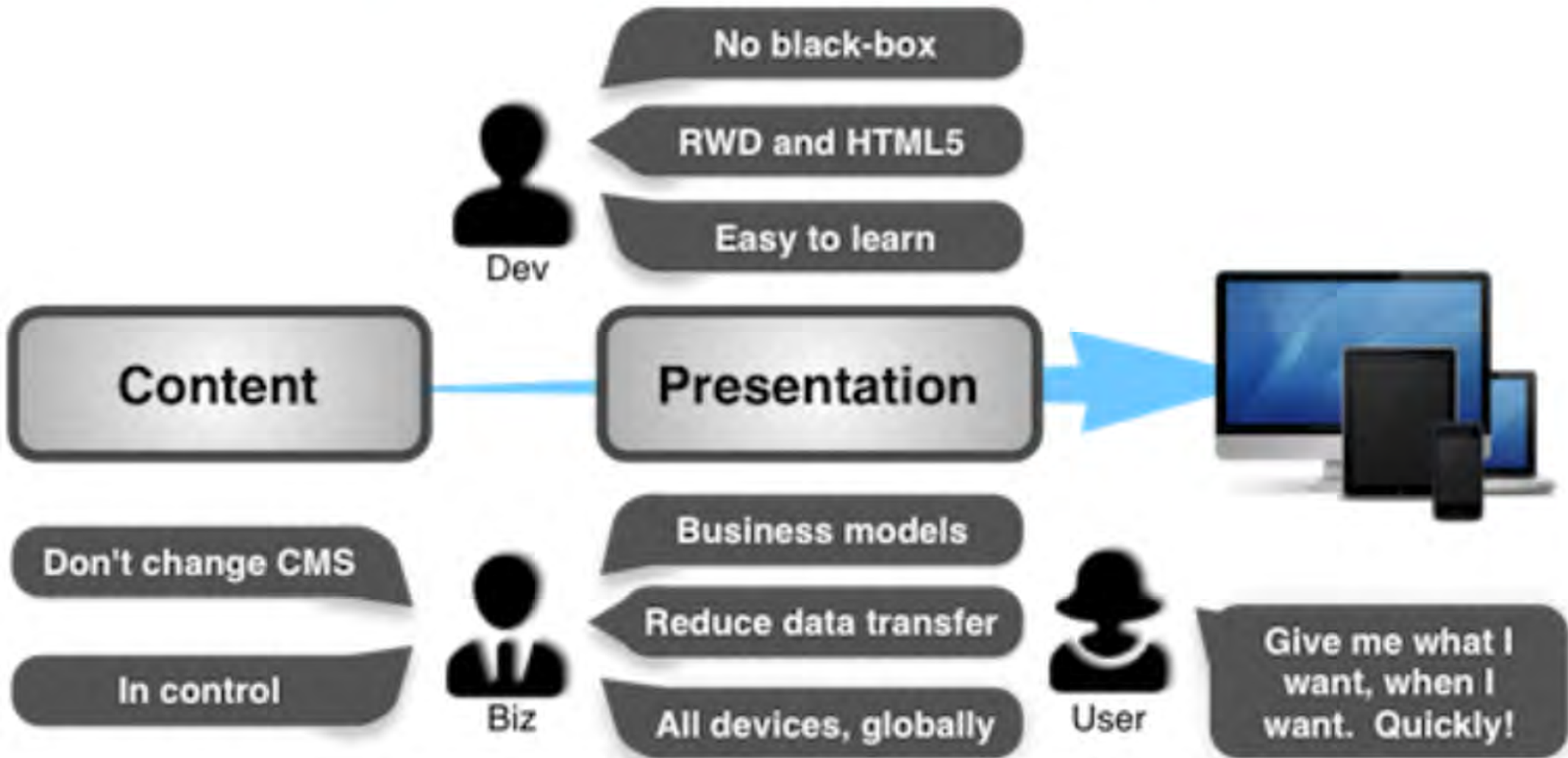
| url | js | css | img | total requests | requests missing expire | page size (kb) | browser scaled images | critical path score | server Response Time | dom Content Loaded Time | rule score |
|---|----|-----|-----|----------------|-------------------------|----------------|-----------------------|---------------------|----------------------|-------------------------|------------|
|   http://www.exact.nl/aangifte | 18 | 9 | 8 | 49 | 2 | 976.1 | 0 | 0 | | | 73 |
|   http://www.exact.nl/algemene-voorwaarden-exact | 18 | 9 | 6 | 47 | 2 | 940.1 | 0 | 0 | | | 74 |
|   http://www.exact.nl/app-center | 18 | 9 | 6 | 47 | 2 | 940.7 | 0 | 0 | | | 73 |
|   http://www.exact.nl/appcenter | 20 | 12 | 11 | 60 | 2 | 994.8 | 0 | 0 | | | 72 |
|   http://www.exact.nl/cookies | 18 | 9 | 6 | 47 | 2 | 945.8 | 0 | 0 | | | 74 |
|   http://www.exact.nl/customer-login | 18 | 9 | 8 | 49 | 3 | 941.2 | 0 | 0 | | | 72 |
|   http://www.exact.nl/disclaimer | 18 | 9 | 6 | 47 | 2 | 941.7 | 0 | 0 | | | 73 |
|   http://www.exact.nl/employee-login | 18 | 9 | 7 | 48 | 2 | 940.1 | 0 | 0 | | | 73 |
|   http://www.exact.nl/exact-online/nieuwsbrief | 21 | 9 | 5 | 43 | 34 | 1193.2 | 0 | 0 | | | 67 |
|   http://www.exact.nl/exact- | 20 | 9 | 17 | 57 | 46 | 2412.4 | 10 | 0 | | | 63 |

| url | js | css | img | total requests | requests missing expire | page size (kb) | browser scaled images | critical path score | server Response Time | dom Content Loaded Time | rule score |
|--|----|-----|-----|----------------|-------------------------|----------------|-----------------------|---------------------|----------------------|-------------------------|------------|
|   http://www.exact.nl/aangifte | 18 | 9 | 8 | 49 | 2 | 976.1 | 0 | 0 | | | 73 |
|   http://www.exact.nl/algemene-voorwaarden-exact | 18 | 9 | 6 | 47 | 2 | 940.1 | 0 | 0 | | | 74 |
|   http://www.exact.nl/app-center | 18 | 9 | 6 | 47 | 2 | 940.7 | 0 | 0 | | | 73 |
|   http://www.exact.nl/appcenter | 20 | 12 | 11 | 60 | 2 | 994.8 | 0 | 0 | | | 72 |
|   http://www.exact.nl/cookies | 18 | 9 | 6 | 47 | 2 | 945.8 | 0 | 0 | | | 74 |
|   http://www.exact.nl/customer-login | 18 | 9 | 8 | 49 | 3 | 941.2 | 0 | 0 | | | 72 |
|   http://www.exact.nl/disclaimer | 18 | 9 | 6 | 47 | 2 | 941.7 | 0 | 0 | | | 73 |
|   http://www.exact.nl/employee-login | 18 | 9 | 7 | 48 | 2 | 940.1 | 0 | 0 | | | 73 |
|   http://www.exact.nl/exact-online/nieuwsbrief | 21 | 9 | 5 | 43 | 34 | 1193.2 | 0 | 0 | | | 67 |
|   http://www.exact.nl/exact-online/producten/accountancy | 20 | 9 | 17 | 57 | 46 | 2412.4 | 10 | 0 | | | 63 |
|   http://www.exact.nl/exact-online/ | 19 | 9 | 18 | 61 | 51 | 1715.2 | 0 | 0 | | | 66 |
|   http://www.exact.nl/klant-trainingen/cursussen-en-trainingen | 21 | 11 | 16 | 61 | 2 | 1025.4 | 0 | 0 | | | 72 |
|   http://www.exact.nl/klant-trainingen/exact-globe | 19 | 10 | 16 | 59 | 2 | 1014.2 | 0 | 0 | | | 72 |
|   http://www.exact.nl/klant-trainingen/exact-synergy-enterprise | 21 | 11 | 16 | 61 | 2 | 1029.2 | 0 | 0 | | | 73 |

RESS: Responsive Design + Server Side Components



RESS: Responsive Design + Server Side Components





mite.keynote.com

Resonsive Images

responsive-images technique that assigns a particular background image to a div according to media-query matches

```
<style>
@media (max-width:390px) {
  #image-container {
    max-width: 109px;
  }
  .image {
    background-image: url(image1.jpg);
  }
}
@media (max-width:390px) and (-webkit-min-device-pixel-ratio:1.5) {
  .image {
    background-image: url(image2.jpg);
  }
}
@media (max-width:390px) and (-webkit-min-device-pixel-ratio:2) {
  .image {
    background-image: url(image3.jpg);
  }
}
@media (min-width:391px) and (max-width:500px) {
  #image-container {
    max-width: 121px;
  }
  .image {
    background-image: url(image4.jpg);
  }
}
}
```

A different data-fullsrc responsive-images technique is used on the Boston Globe's responsive website. It's a combination of markup, JavaScript and a server-side redirect rule:

```

```

Microsoft's responsive website uses Scott Jehl's Picturefill technique:

```
<div data-picture data-alt="Alternate text here">
  <div data-src="image1.png"></div>
  <div data-src="image2.png" data-media="(min-device-pixel-ratio: 2.0)"></div>
  <div data-src="image3.png" data-media="(max-width: 539px)"></div>
  <div data-src="image4.png" data-media="(max-width: 539px) and (min-device-pixel-ratio: 2.0)"></div>

  <noscript></noscript>
</div>
```

<https://github.com/scottjehl/picturefill>

ive Mythes?



responsive-images technique that assigns a particular background image to a div according to media-query matches

```
<style>
```

```
@media (max-width:390px) {
```

```
  #image-container {
```

```
    max-width: 109px;
```

```
  }
```

```
  .image {
```

```
    background-image: url(image1.jpg);
```

```
  }
```

```
}
```

```
@media (max-width:390px) and (-webkit-min-device-pixel-ratio:1.5) {
```

```
  .image {
```

```
    background-image: url(image2.jpg);
```

```
  }
```

```
}
```

```
@media (max-width:390px) and (-webkit-min-device-pixel-ratio:2) {
```

```
  .image {
```

```
    background-image: url(image3.jpg);
```

```
  }
```

```
}
```

```
@media (min-width:391px) and (max-width:500px) {
```

```
  #image-container {
```

```
    max-width: 121px;
```

```
  }
```

```
  .image {
```

```
    background-image: url(image4.jpg);
```

```
  }
```

```
}
```

A different data-fullsrc responsive-images technique is used on the Boston Globe's responsive website. It's a combination of markup, JavaScript and a server-side redirect rule:

```

```

Microsoft's responsive website uses Scott Jehl's Picturefill technique:

```

```

Microsoft's responsive website uses Scott Jehl's Picturefill technique:

```
<div data-picture data-alt="Alternate text here">  
  <div data-src="image1.png"></div>  
  <div data-src="image2.png" data-media="(min-device-pixel-ratio: 2.0)"></div>  
  <div data-src="image3.png" data-media="(max-width: 539px)"></div>  
  <div data-src="image4.png" data-media="(max-width: 539px) and (min-device-pixel-ratio: 2.0)"></div>  
  
  <noscript></noscript>  
</div>
```

<https://github.com/scottjehl/picturefill>



```

background-image: url(image3.jpg);
}
}
@media (min-width:391px) and (max-width:500px) {
  #image-container {
    max-width: 121px;
  }
  .image {
    background-image: url(image4.jpg);
  }
}
  
```

so is the **story** still truth on **Responsive Mythes?**



- Performance is priority
- Use RWD as a tool
- Hack the technique if necessary
- Think about adding server-side logic

RWD is a great tool

if you know when and how to use it



**Don't use it just
because it's cool**



- Performance is priority
- Use RWD as a tool
- Hack the technique if necessary
- Think about adding server-side logic



That's all Folks!

My name: **Ray Bogman**



- Joomla/Magento evangelist
- Trainer
- Performance nerd
- Security geek
- Mobile freak

@ SupportDesk.nu

<http://www.linkedin.com/in/raybogman>

<http://www.twitter.com/raybogman>



Resources:

- <http://sixrevisions.com/javascript/mobile%C2%A0web-development-frameworks/>
- <http://caniuse.com/fontface>
- <http://blog.cloudfour.com/are-css-sprites-a-mobile-web-worst-practice/>
- <http://stevesouders.com/mobileperf/mobileperfbkm.php>
- https://en.wikipedia.org/wiki/XHTML_Mobile_Profile
- <http://mobile.smashingmagazine.com/2013/01/09/bandwidth-media-queries-we-dont-need-em/>
- <http://www.igvita.com/2013/03/07/faster-smaller-and-more-beautiful-web-with-webp>