

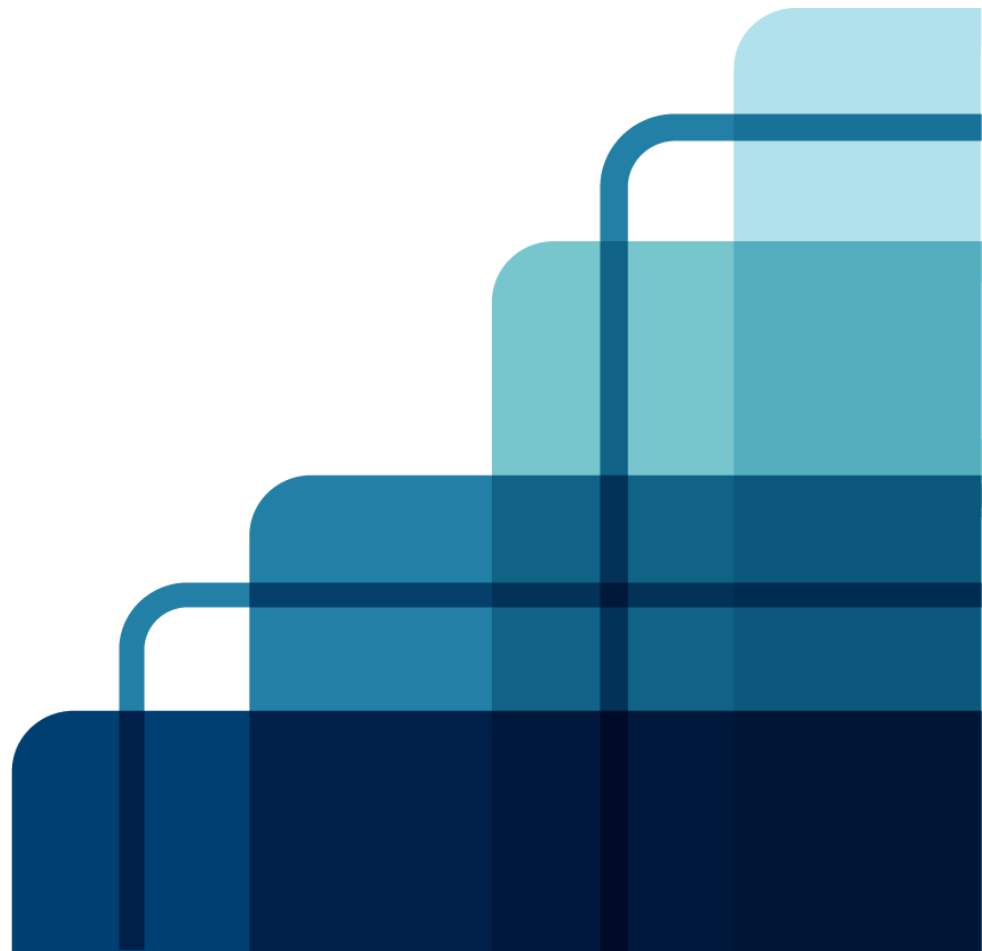


The Sector Specialists

# Testing mobile WWW - tools & best practices

Testwarez conference - Gdynia

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Submitted on: September 2014



# Agenda

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Mobile expansion

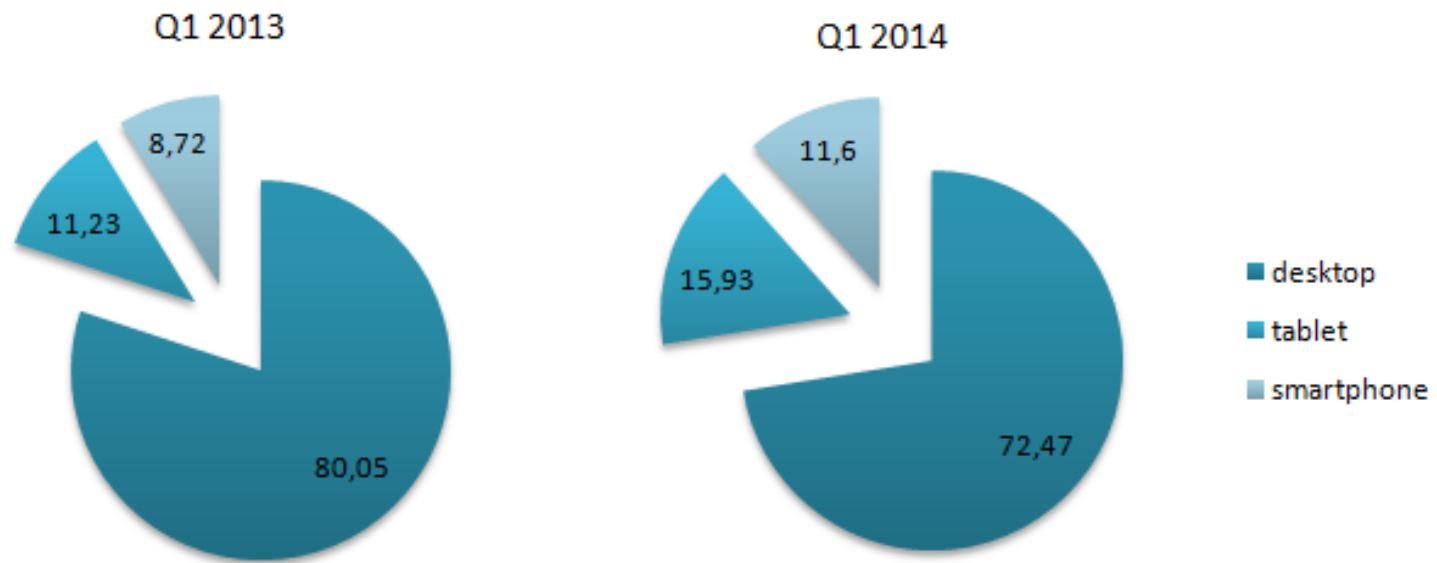
Challenges

Testing tools

Getting real devices

Q&A

# Mobile expansion



<http://www.monetate.com/research/>

# Challenges

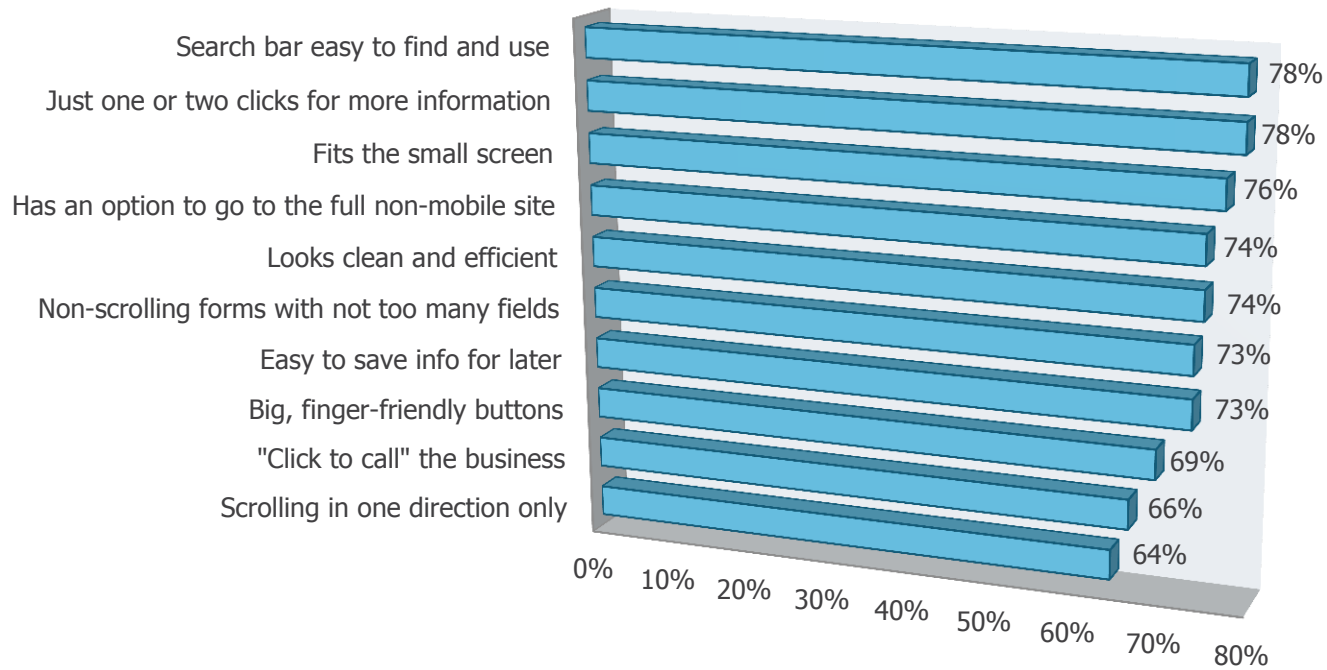
Possible combinations



# Challenges

## Usability

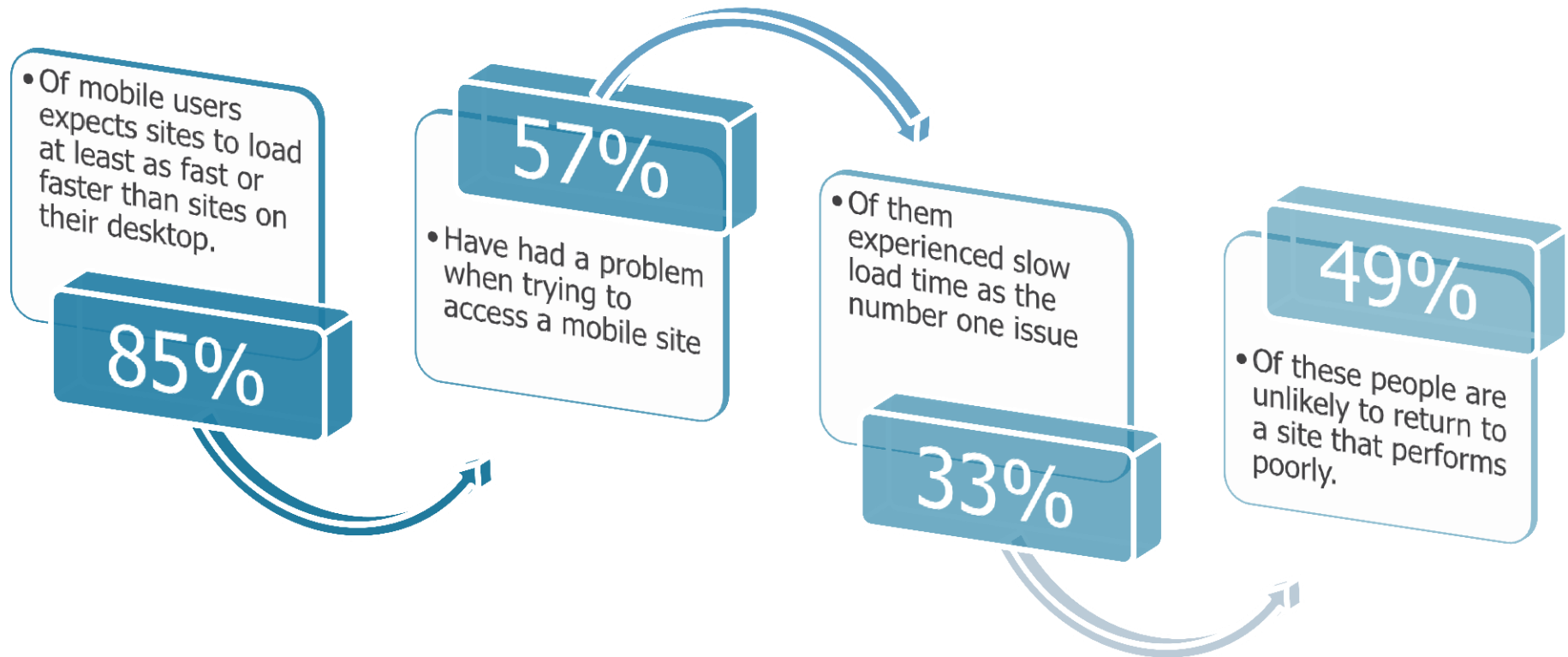
### User expectations from mobile websites



<http://googlemobileads.blogspot.com/>

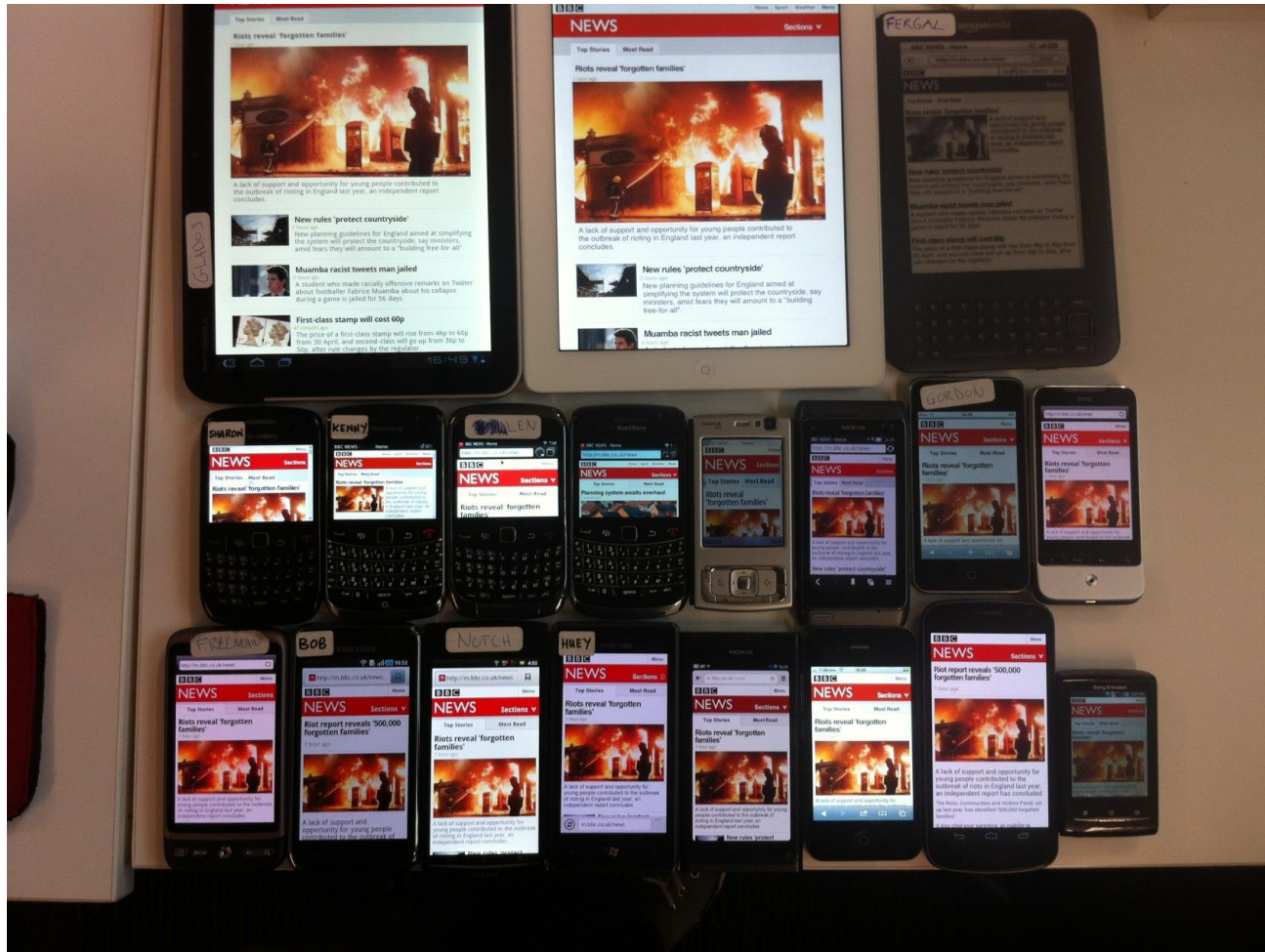
# Challenges

## Performance



# Testing tools

## Why are they useful?








# Mobile WWW testing tools






| Tool                 | Purpose  | Usefulness |
|----------------------|--|------------|
| W3C mobileOK Checker | - Determines level of mobile-friendliness for mobileOK Basic Tests 1.0 specification | ★ ★        |
| Compuware            | - Mobile performance test  | ★ ★        |
| MobiReady            | - Evaluates mobile-readiness using industry best practices & standards               | ★ ★        |



# Emulators

| Tool                         | Pro   | Cons  | Rating  |
|------------------------------|---|---|---|
| <b>Mobile Phone Emulator</b> | <ul style="list-style-type: none"> <li>- Enables to see a website on a variety of mobile phones (iPhone, HTC, LG, BlackBerry, Samsung)</li> <li>- Landscape and portrait modes</li> </ul> | <ul style="list-style-type: none"> <li>- Unable to browse everything. Some actions not compatible with emulator</li> <li>- Only device default browsers</li> </ul>  |    |
| <b>Screenfly Emulator</b>    | <ul style="list-style-type: none"> <li>- Easy way to test Responsive Web Designs</li> <li>- Screen sizes of popular tablets and smartphones + custom</li> </ul>                           | <ul style="list-style-type: none"> <li>- Unable to browse everything.</li> <li>- No browsers selection</li> <li>- Modify headers or exact mobile url required</li> </ul>                                  |    |
| <b>iPad Peek Emulator</b>    | <ul style="list-style-type: none"> <li>- Tests rendering of websites on Apple devices</li> <li>- Landscape and portrait modes</li> </ul>  | <ul style="list-style-type: none"> <li>- No touch scrolling</li> <li>- Unable to browse everything.</li> <li>- Flash elements are shown</li> <li>- Modify headers or exact mobile url required</li> </ul> |    |
| <b>Responsinator</b>         | <ul style="list-style-type: none"> <li>- Online emulator to test RWD websites</li> <li>- Several devices under test at the same time (iPhone, iPad, Kindle, Android (Nexus 4))</li> </ul> | <ul style="list-style-type: none"> <li>- Only resolutions of available devices can be tested</li> <li>- Website under test is loaded on all devices at the same time takes additional time</li> </ul>     |    |
| <b>Opera Mini simulator</b>  | <ul style="list-style-type: none"> <li>- Reflects device behaviour</li> </ul>   | <ul style="list-style-type: none"> <li>- Simulates browsing on Opera Mini only</li> <li>- MicroEmulator required</li> </ul>   |  |

# Real devices

| Tool                          | Pro  | Cons  | Rating  |
|-------------------------------|--|---|---|
| <b>BrowserStack</b>           | <ul style="list-style-type: none"> <li>- Great range of browsers</li> <li>- Can do automated tests</li> </ul>  | <ul style="list-style-type: none"> <li>- In a cloud</li> <li>- Slowly responsive</li> <li>- Billable</li> </ul> |    |
| <b>Perfecto Mobile</b>        | <ul style="list-style-type: none"> <li>- Automated scripts across multiple devices</li> <li>- Performance tests</li> <li>- Real mobile devices</li> </ul>  | <ul style="list-style-type: none"> <li>- In a cloud</li> <li>- Billable</li> </ul>                              |    |
| <b>CrossBrowserTesting</b>    | <ul style="list-style-type: none"> <li>- Huge amount of browser-OS combinations</li> <li>- Automated screenshots across multiple browsers</li> <li>- Can do automated tests with Selenium</li> </ul> | <ul style="list-style-type: none"> <li>- Billable</li> </ul>  |    |
| <b>Keynote Mobile Testing</b> | <ul style="list-style-type: none"> <li>- Automated scripts that works across devices</li> <li>- Fast scripts creation</li> <li>- Real mobile devices</li> </ul>                                      | <ul style="list-style-type: none"> <li>- In a cloud</li> <li>- Billable</li> </ul>                              |    |
| <b>Edge Inspect</b>           | <ul style="list-style-type: none"> <li>- Easy setting up</li> <li>- Real mobile devices</li> <li>- Excellent for exploratory testing</li> </ul>  |   |  |

# Demo

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Edge Inspect

# Choosing test devices

Look at existing client traffic

Review overall market share and traffic in your region

Device-specific factors

Project-specific factors

Budget

# Shopping list

iOS5 - iPad2, iPhone4

Android 2.1 - HTC Desire

Android 2.2 - Samsung Galaxy S

Android 3.1 - Sony Tablet S

Android 4.1 - Galaxy Nexus

Blackberry OS5 - Bold 9700

Windows Phone 7.5 - Nokia Lumia 900

Symbian S60 - Nokia N95

Questions?

# Links

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- ▶ <http://www.browserstack.com/>
- ▶ <http://www.keynote.com/solutions/testing/mobile-testing>
- ▶ <http://www.perfectomobile.com>
- ▶ <http://html.adobe.com/edge/inspect/>
  
- ▶ <http://www.mobilephoneemulator.com/>
- ▶ <http://quirktools.com/screenfly/>
- ▶ <http://ipadpeek.com/>
  
- ▶ <http://validator.w3.org/mobile/>
- ▶ <http://performance-test.compuware.com/mobile-website-performance-test/>
- ▶ [http://ready.mobi/launch.jsp?locale=en\\_EN](http://ready.mobi/launch.jsp?locale=en_EN)
- ▶ <http://crossbrowsertesting.com/>



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Thank You!

