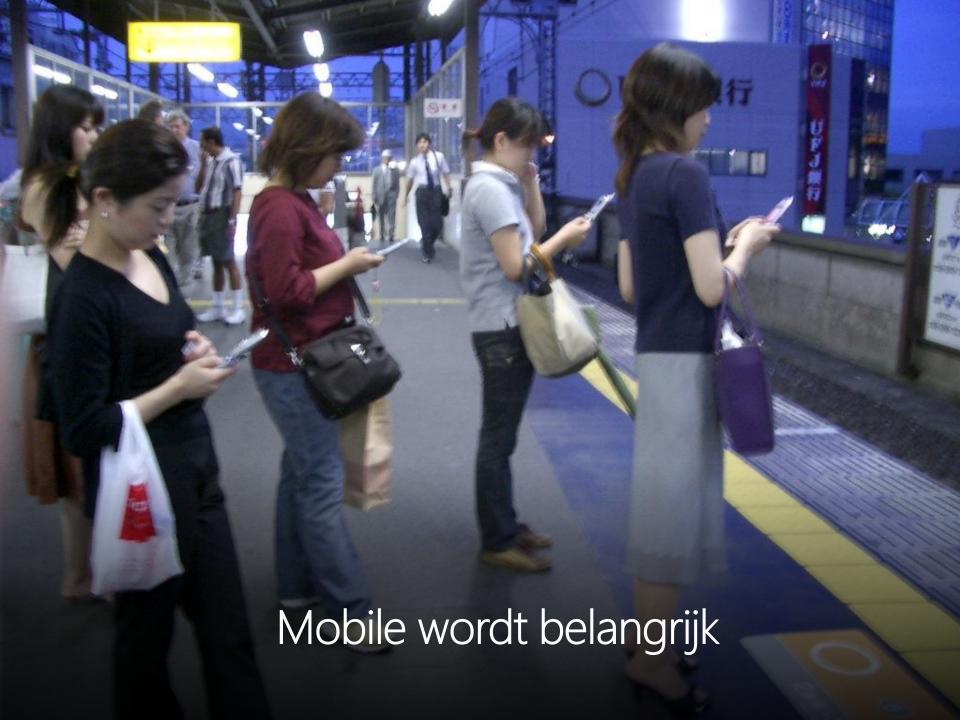


## Front End Web Development



## **Media Queries**

**Responsive Design** 







Home > Online Media Daily > Thursday, Jan 14, 2010

### Gartner: Mobile To Outpace Desktop Web By 2013

by Mark Walsh, Jan 13, 2010, 4:54 PM

Comment Recommend (55) If Like





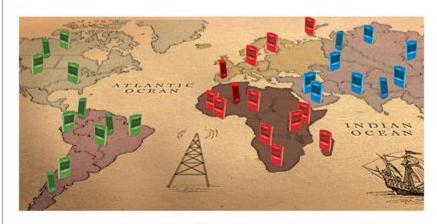


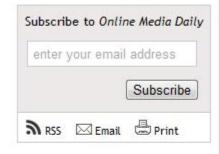














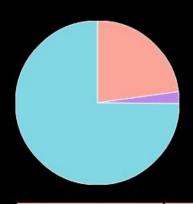
Mobile phones will overtake PCs as the most common Web access devices worldwide by 2013, according to a new forecast by research firm Gartner. That's an even more aggressive outlook than Morgan Stanley's projection that the mobile Web will outstrip the desktop Web in five years.

Gartner estimates the combined installed base of smartphones and browser-equipped enhanced phones will surpass 1.82 billion units by 2013, edipsing the total of 1.78 billion PCs by then.

But the firm warns that many sites still are not optimized for the mobile Web, even though cell users expect to make fewer dicks on their phones than on a PC. To successfully expand into mobile, publishers will have to reformat sites from the small form-factor of handheld devices.

Looking ahead to 2014, Gartner estimates that 3 billion of the world's adult population will be able to conduct transactions via mobile or Internet technology. "Cash transactions will remain dominant in emerging markets by 2014, but the foundation for electronic transactions will be well underway for much of the adult world," according to the firm.

### PhoneCount



Internet phone data connections	2076797524
Internet users without phones	211707493
People without internet	6808678019

People in the world now (source(1)) 7,020,385,533

CONNECTED PHONES IN THE WORLD NOW (SOURCE(2)) 6,750,735,609 (96.15%)

Phone Internet Data connections now (source(3)) 2,076,797,972 (29.58%)

TOTAL INTERNET USERS PC AND PHONES (SOURCE(4)) 2,288,505,071 (32.59%)

TOTAL INTERNET USERS LESS PHONE INTERNET USERS 211,707,115 (NB WILL DECREASE TO ZERO)

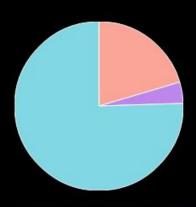
TOTAL IPHONE APPSTORE DOWNLOADS (SOURCE(5)) 31,081,562,117





Deze slide gebruikten we vorig jaar

### PhoneCount



Internet phone data connections	1787706883
Internet users without phones	356252813
People without internet	6608938554

PEOPLE IN THE WORLD NOW (SOURCE(1))
6,965,191,388

CONNECTED PHONES IN THE WORLD NOW (SOURCE(2))
6,168,935,045 (88.56%)

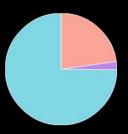
Phone Internet Data connections now (source(3))
1,787,707,347 (25.66%)

Total Internet users PC and Phones (source(4))
2,143,959,752 (30.78%)

Total Internet users less phone Internet users
356,252,421 (NB will decrease to zero)

Total iPhone appstore downloads (source(5))
20,049,103,457

## Okt 2012



Internet phone data connections	2076797524
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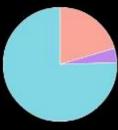
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TOTAL IPHONE APPSTORE DOWNLOADS (SOURCE(5)) 31,081,562,117

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## Nov 2011



Internet phone data connections	1787706883
Internet users without phones	356252813
People without internet	6608938554

#### PhoneCount

People in the world now (source(1)) 6,965,191,388

CONNECTED PHONES IN THE WORLD NOW (SOURCE(2)) 6,168,935,045 (88.56%)

Phone Internet Data connections now (source(3)) 1,787,707,347 (25.66%)

Total Internet users PC and Phones (source(4)) 2,143,959,762 (30.78%)

TOTAL INTERNET USERS LESS PHONE INTERNET USERS 356,252,421 (NB WILL DECREASE TO ZERO)

Total iPhone appstore downloads (source(5)) 20,049,103,457

# Als <del>web</del> developer moet je dus rekening houden met alle devices

# HOE?? Native vs WEB



= CONTENT



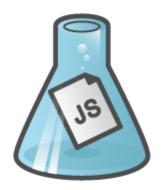
= UI

## With **PhoneGap** you can,



Phone **Gap** 

Take advantage of HTML5
and CSS3



Use **JavaScript** to write your code



Access Native Features



Deploy your app to Multiple Platforms

Voor je begint met de design van uw pagina

## **CONTENT IS KING**





3m

3m

8m

11m

13m

21m



Home

### Kevin DeRudder

View my profile page

1,692 TWEETS 157 FOLLOWING 249

**FOLLOWERS** 

Compose new Tweet...







### Tweets



Gentenaar.be @DeGentenaar

#gent Veerle Malschaert laat de rokken omhoog trekken op

internationale vrouwendag bit.ly/yPglAA



Breaking News @BreakingNews

Italian police break up international pedophile network, spanning at

least 28 countries - @Reuters bit.lv/w46IOY



TechDays Belgium @techdaysbe

Enjoy the best of #techdaysbe 2012. Session recordings, slides and

tech2012 inside stuff now online: microsoft.com/belux/techdays...



James Deacon @JamesDeacon

@aral Oh and even when on an iPad it assumes as it's mobile Safari

that I must be using an iPhone. pic.twitter.com/M1xPD5r3

Retweeted by Aral Balkan

◆ 

View photo



Breaking News @BreakingNews

Number of people filing for 1st-time unemployment benefits in the US

rises 8,000 to 362,000 in latest week, government says -

@CNNMoney



James Seymour-Lock @JamesSLock

@aral Mobile is bad, desktop version says this cl.ly/2Z0i1H1T0n0j0x...

Retweeted by Aral Balkan

In reply to Aral Balkan



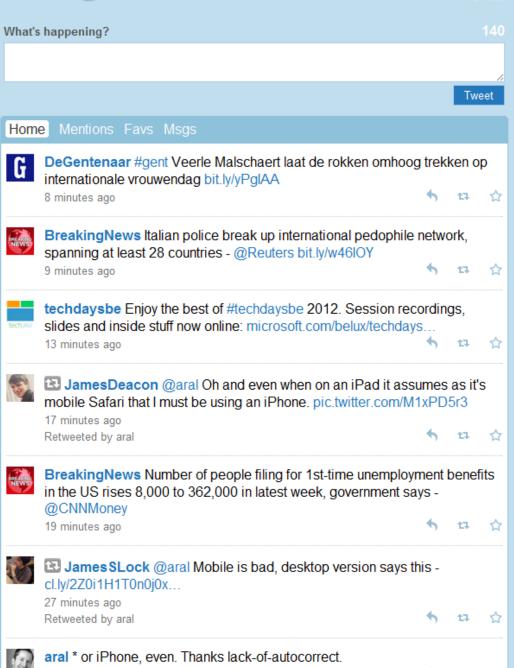
Aral Balkan @aral

20m

or iPhone, even. Thanks lack-of-autocorrect.

13

25 minutes ago





Daarom is uw content zo belangrijk, maar hoe target je content?

## <div id="header"> <div id="top" />...

<div id="navigation"> <div id="menu">...

<div id="main"> <div class="content"> <div id="left"> <div class="content">

<div id="footer">

# <header> <nav> <section> <article> <aside> <article> <footer>

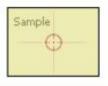
## ASP.NET MVC MUSIC STORE

Rock
Classical
Jazz
Pop
Disco
Latin
Metal
Alternative
Reggae

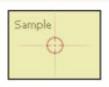
Blues



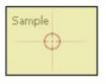
### Fresh off the grill



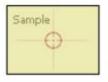
The Best Of Men At Work



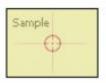
For Those About To Rock We Salute You



Let There Be Rock

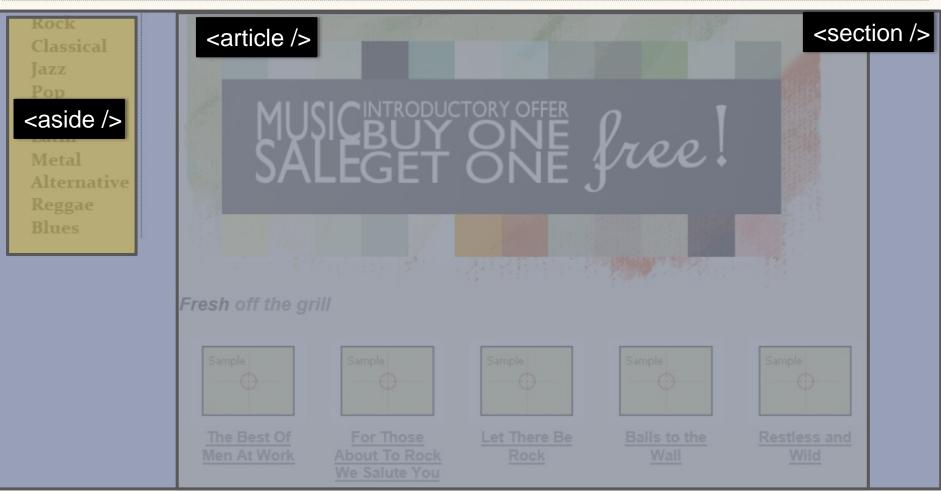


Balls to the Wall

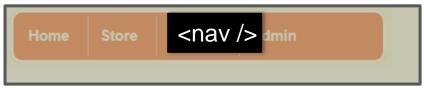


Restless and Wild













## Make it Mobile



Hoe wil je de pagina beschikbaar maken

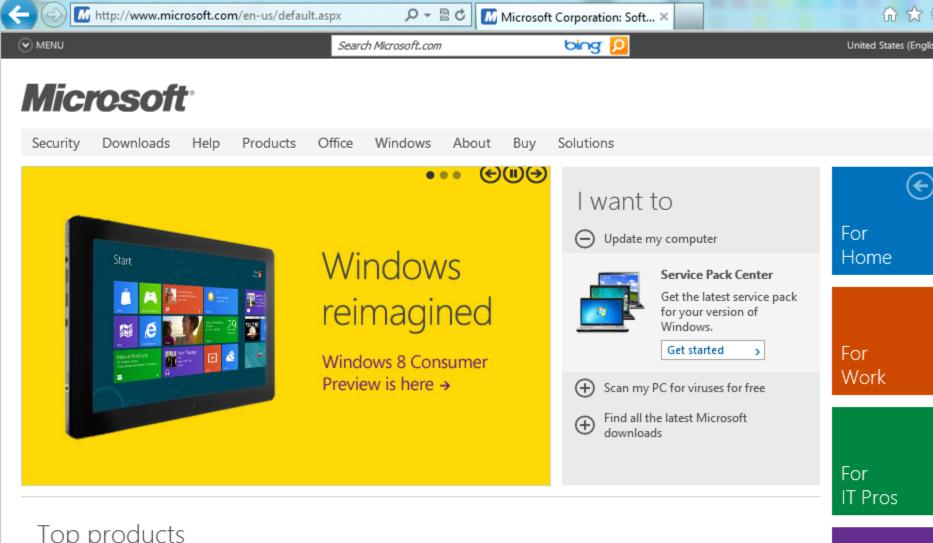
- 1. Redirect
- 2. Responsive design via Media Queries



## Hoe wil je de pagina beschikbaar maken 1. Redirect

Responsive design via Media Queries

```
<script type="text/javascript">
   if (screen.width <= 320) {
      document.location = "m.microsoft.com";
   }
</script>
```



## Top products

MOST POPULAR | WINDOWS | OFFICE | XBOX | WINDOWS PHONE | WINDOWS LIVE | BING



#### Microsoft Flight is available now

If you have a mouse and a PC, you can fly! Tour the skies with this free game.



#### Stay in sync with the people who matter most

Keeping everyone in the loop is easy with the right phone, PC, and apps.



#### Conquer graymail with Hotmail

Advanced tools help you automate your Inbox and sort spam and graymail.

For Developers

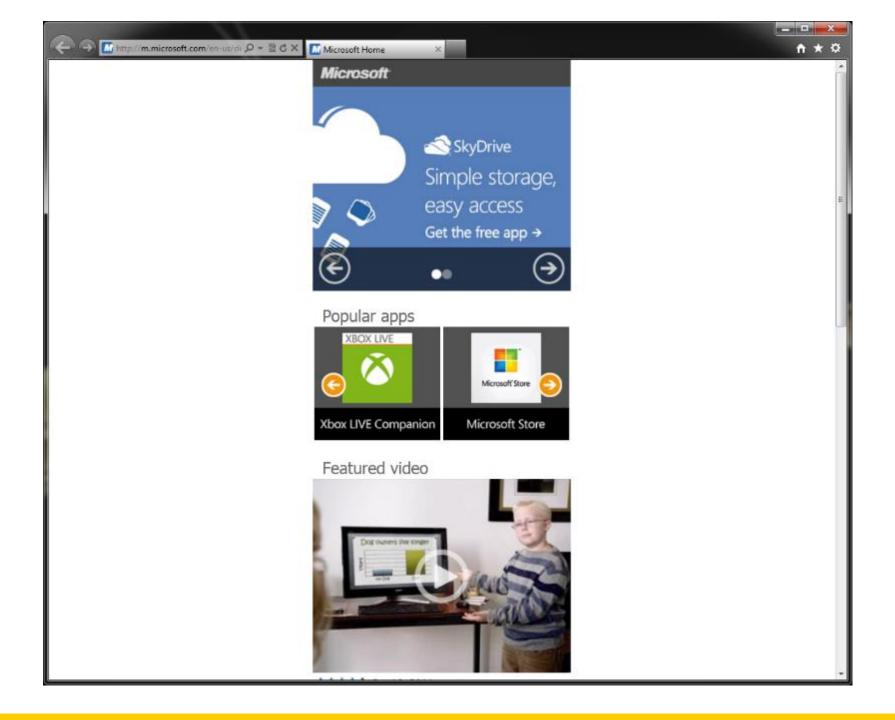






Dit is goed wanneer je verschillende content wil tonen op basis van het device









Hoe wil je de pagina beschikbaar maken

2. Responsive design via Media Queries

## Responsive???

## Misumena vatia

From Wikipedia, the free encyclopedia

These spiders may be yellow or white, depending on the flower in which they are hunting. Especially younger females, which may hunt on a variety of flowers such as daisies and sunflowers, may change color "at will". Older females require large amounts of relatively large prey to produce the best possible clutch of eggs. They are therefore, in North America, most commonly found in goldenrod (Solidago sp.), a bright yellow flower which attracts large numbers of insects, especially in autumn. It is often very hard even for a searching human to recognize one of these spiders on a yellow flower.



Pictures of M. vatia

### Misumena vatia

From Wikipedia, the free encyclopedia

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Pictures of *M. vatia* 



### Ampersand









"Modernizr is an essential part of my toolkit of files."

- Andy Clarke, Stuff & Nonsense

**Modernizr** is an open-source JavaScript library that helps you build the next generation of HTML5 and CSS3-powered websites.

### Why use Modernizr?

Taking advantage of the new capabilities of HTML5 and CSS3 can mean sacrificing control over the experience in older browsers. Modernizr 2 is your starting point for making the best websites and applications that work exactly right no matter what browser or device your visitors use.

Thanks to the new Media Query tests and built-in <u>YepNope.js</u> micro-library as <u>Modernizr.load()</u>, you can now combine feature detection with media queries and conditional resource loading. That gives you the power and flexibility to optimize for every circumstance.

Check out the <u>full list of features</u> that Modernizr detects, or learn more about conditional resource loading with Modernizr.

### Download Modernizr 2.5.3

Use the commented, uncompressed Development version to develop with and learn from.

Then, dive into the Production build tool and pick just the tests you need!

View documentation



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### CALL FOR SPEAKERS

**06.03.2012 – 13.03.2012** One last call for speakers

NEW WEBSITE



### Media Queries

#### W3C Recommendation 19 June 2012

This Version:

http://www.w3.org/TR/2012/REC-css3-mediagueries-20120619/

Latest Version:

http://www.w3.org/TR/css3-mediagueries/

Latest Editor's Draft:

http://dev.w3.org/csswg/css3-mediaqueries/

**Previous Version:** 

http://www.w3.org/TR/2012/PR-css3-mediaqueries-20120426/

Disposition of Comments:

http://www.w3.org/Style/2012/MediaQueriesDisposalOfComments.html

Editors:

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Tantek Çelik <tantek @cs.stanford.edu>

Daniel Glazman <a href="mailto:daniel.glazman@disruptive-innovations.com">disruptive-innovations.com</a>

Anne van Kesteren <annevk@opera.com>

Please refer to the **errata** for this document, which may include some normative corrections.

See also translations

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css3-mediaqueries.js: make CSS3 Media Queries work in all browsers (JavaScript library)

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Wiki Issues

Source

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### **Project Information**

Project feeds

Code license MIT License

#### Labels

css, css3, mediaqueries, javascript, library, internetexplorer, ie, mozilla, firefox, internet, explorer, media, query, queries

Members
wou...@dynora.nl

#### Featured



css3-mediaqueries.js Show all »

#### Links

#### Groups

Discuss css3-mediaqueries.js

css3-mediaqueries.js by Wouter van der Graaf is a JavaScript library to make IE 5+, Firefox 1+ and Safari 2 transparently parse, test and apply <u>CSS3 Media Queries</u>. Firefox 3.5+, Opera 7+, Safari 3+ and Chrome already offer native support.

Usage: just include the script in your pages.

(And you should combine and compress with other scripts and include it just before </body> for better page speed - but you already knew that).

Write your media queries like you would for browsers with native support. The script will parse your CSS and apply the styles for positive media query tests realtime (also when you resize).

Note: Doesn't work on @import'ed stylesheets (which you shouldn't use anyway for performance reasons). Also won't listen to the media attribute of the link> and <style> elements.

Happy media querying!

Media Queries laten toe om <u>design</u> code te schrijven gebaseerd op de <u>karakteristieken</u> van een device

## Media Queries bestaan uit 2 delen

```
Type Query of Expression

@media all and (max-width: 640px) {
}
```

## Media Queries bestaan uit 2 delen

- 1. Media Type
- 2. Expression

### Contents

- 7.1 Introduction to media types
- 7.2 Specifying media-dependent style sheets
  - 7.2.1 The @media rule
- 7.3 Recognized media types
  - 7.3.1 Media groups

### 7.1 Introduction to media types

One of the most important features of style sheets is that they specify how a document is to be presented on different media: on the screen, on paper, with a speech synthesizer, with a braille device, etc.

Certain CSS properties are only designed for certain media (e.g., the 'page-break-before' property only applies to paged media). On occasion, however, style sheets for different media types may share a property, but require different values for that property. For example, the 'font-size' property is useful both for screen and print media. The two media types are different enough to require different values for the common property; a document will typically need a larger font on a computer screen than on paper. Therefore, it is necessary to express that a style sheet, or a section of a style sheet, applies to certain media types.

```
<link rel="stylesheet" href="style.css" media="all" />
<link rel="stylesheet" href="screen.css" media="screen" />
<link rel="stylesheet" href="printed.css" media="print" />
```

```
@media all {
    /* do some design stuff for all devices */
}
@media screen {
    /* do some design stuff for color computer screens */
}
@media print {
    /* do some design stuff for paged material */
}
```

# De media types

Bron: W3C site

All	Suitable for all devices
Braille	Intended for braille tactile feedback devices
Embossed	Intended for paged braille printers
Handheld	Intended for handheld devices
Print	Intended for paged material
Projection	Intended for projected presentations
Screen	Intended primarily for color computer screens
Speech	Inteded for speech synthesizers
Tty	Media using a fixed character grid
Tv	Intended for television-type devices

# AHA, er is iets zoals <u>handheld</u>

```
@media screen
    body
        background-color: Red;
@media handheld
    body
        background-color: Yellow;
```



This is not yellow

## Handheld

Oudere toestellen hebben geen goede browsers

Nieuwere toestellen gebruiken <u>screen</u> als media type

## Media Queries bestaan uit 2 delen

- 1. Media Type
- 2. Expression

```
Type

Query or Expression

@media all and (max-width: 640px) {

Feature

Value
```

## De features

Features with min- and max- prefixes

Width Aspect-ratio

Height Device-aspect-ratio

Device-width Color

Device-height Color-index

Resolution Monochrome

## **CSS** width vs Device Width



# Nog features

Zonder min- en max- prefixes

Orientation

Scan

Grid

## 3 manieren

```
<link rel="stylesheet" href="style.css"</pre>
        media="screen and (max-width: 640px)" />
@media all and (max-width: 640px) {
@import url("mobile.css") screen and (max-width: 640px);
```

## Combineren

## Not

```
@media not screen and (min-width: 800px)
{
```

# **ViewPorts**

## **ViewPorts**

Totaal aantal plaats beschikbaar voor CSS layouts

Op de desktop is dit evenveel als de breedte van uw browser

<HTML> heeft impliciet een width van 100%

## **ViewPorts**

Op mobile devices is dit iets moeilijker

Indien men de breedte van het device zou nemen dan zouden heel veel websites gesqueezed worden





MOBILISM 2012, 10TH AND 11TH OF MAY, AMSTERDAM Featuring Remy Sharp and Jeremy Keith

layout viewport Buy tickets

Mobile is becoming increasingly important to web designers and developers because users expect a site to work on their phones. Simultaneously, the web is becoming increasingly important to the mobile world because it is the only way to deploy an application to any phone.

Nowadays most web conferences feature a mobile session, and most mobile conferences a web session. The obvious next step is Mobilism: a conference wholly dedicated to mobile web design and development.

Just like in 2011 we'll invite some of the best speakers from the web development and the mobile world to guide you through the confusing jumble of platforms, screen sizes, and browsers that is the mobile ecosystem.

### Join our mailing list

Please leave your email address if you want to receive Mobilism 2012 information as soon as it becomes available.

Email address

# **Oplossing**

```
<meta name="viewport"
content="width=device-width; initial-scale=1.0">
```