

Responsive Web Design

Tomáš Daněk, www.redweb.cz



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Používaná zařízení



Současné trendy

WEB BROWSERS

No.	Name	14.11-20.11.2011	07.11-13.11.2011	31.10-06.11.2011
1	MSIE 8.x	25.89%	27.07%	27.13%
2	Chrome 15.x	14.62%	13.86%	11.57%
3	Firefox 8.x	13.43%	2.46%	0.24%
4	Firefox 3.x	10.08%	10.29%	10.43%
5	MSIE 9.x	9.54%	9.31%	9.17%
6	Firefox 7.x	6.38%		
7	MSIE 7.x	4.38%		
8	Opera 11.x	4.38%		
9	Firefox 6.x	2.23%		
10	Firefox 4.x	1.29%		

Sample size (number of page views) 1 827 240 741

Show absolute values

Browser Statistics Month by Month

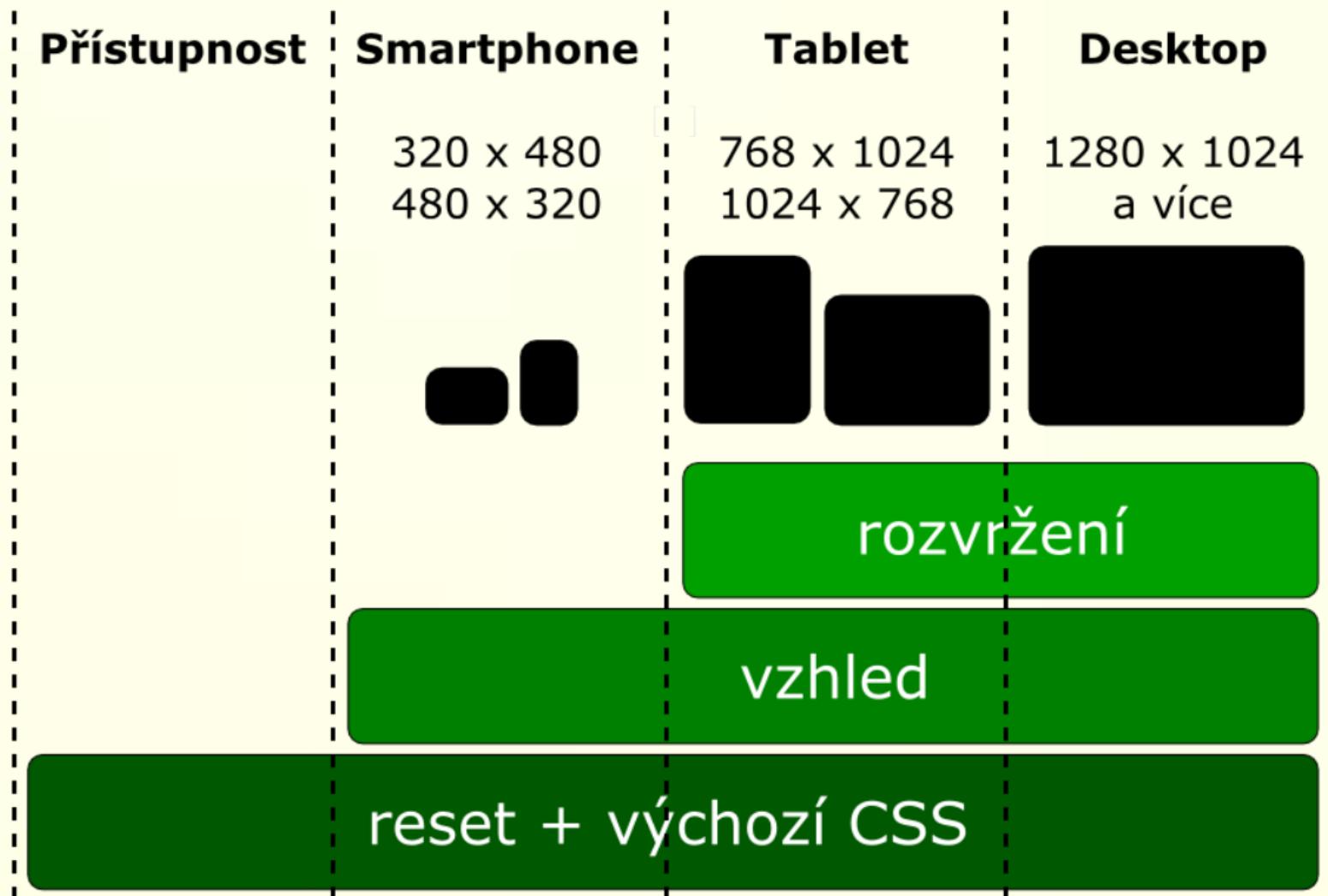
2011	Internet Explorer	Firefox	Chrome	Safari	Opera
October	21.7 %	38.7 %	32.3 %	4.2 %	2.4 %
September	22.9 %	39.7 %	30.5 %	4.0 %	2.2 %
August	22.4 %	40.6 %	30.3 %	3.8 %	2.3 %
July	22.0 %	42.0 %	29.4 %	3.6 %	2.4 %
June	23.2 %	42.2 %	27.9 %	3.7 %	2.4 %
May	24.9 %	42.4 %	25.9 %	4.0 %	2.4 %
April	24.3 %	42.9 %	25.6 %	4.1 %	2.6 %
March	25.8 %	42.2 %	25.0 %	4.0 %	2.5 %
February	26.5 %	42.4 %	24.1 %	4.1 %	2.5 %
January	26.6 %	42.8 %	23.8 %	4.0 %	2.5 %

Historical browser usage over time:

Legend (Top 20 Browsers):

- 1. Gecko
- 2. WebKit
- 3. MSIE 8.0
- 4. Opera 9
- 5. MSIE 9.0
- 6. MSIE 7.0
- 7. MSIE 6.0
- 8. Mozilla 5.x
- 9. unknown
- 10. Opera 8
- 11. MSIE 3.x
- 12. MSIE 5.0
- 13. Mozilla 4.x
- 14. MSIE 4.x
- 15. MSIE 4.x
- 16. KHTML
- 17. Opera 4
- 18. Opera 6
- 19. Opera 7
- 20. MSIE

Vrstvy Web Designu



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3200 TIGRES
Doublons sa population d'ici 2022

ACCUEIL POURQUOI ? EN SAVOIR PLUS LES ACTIONS DU WWF ACTUALITÉS DONNER LA PÉTITION

1 PÉTITION
SIGNER LA PÉTITION

Il ne reste que 3200 tigres en liberté. Aidez nous à doubler ce nombre d'ici 2022 en signant la pétition.

2 FAIRE UN DON
AGIR >

Nous appuyons grâce à nos dons, l'ensemble, sauver le Tigre !

3 PARTAGER
PARISER **13 TWITTER**

Quelques mots pour aider le projet à message -->

1000 signatures Nouvel objectif (2000)

"Mémo à tous : Nous avons transmis nos signatures lors du Sommet du Tigre."

LE NOMBRE DE TIGRES A DÉCLINÉ DE 95% EN L'ESPACE D'UN SIÈCLE.
De nombreux chefs d'Etat se sont mobilisés à la cause du tigre emblématique lors du Sommet du Tigre à Saint-Pétersbourg du 21 au 24 novembre dernier. Des engagements politiques et financiers concrets ont été apportés. Ce qui donne un sérieux coup de pouce aux efforts visant à doubler le nombre de tigres à l'état sauvage.

La mobilisation citoyenne ne doit cependant pas s'essouffler ! Comme toutes les grandes causes, continuons à alerter notre entourage sur les menaces qui pèsent sur l'espèce !

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<http://3200tigres.wwf.fr/>



<http://forefathersgroup.com/>

The image displays three side-by-side screenshots of the Ribot website's homepage. The top navigation bar includes 'HOME', 'LATEST', 'PROJECTS', 'SERVICES', 'THE TEAM', and 'CONTACT'. A banner at the top features a hand holding a smartphone displaying a game interface, with a television screen in the background showing the same content. Below the banner, a green header bar reads 'AWARD-WINNING, SIMPLE AND INNOVATIVE' and 'We improve lives with the experiences we create.' A small paragraph explains the concept of playing games across multiple devices. The main content area is divided into two columns under 'LATEST'.

Left Column:

- Date:** Thursday March 01 2012
- Title:** Ribot launch new multi-device site
- Image:** A screenshot of the website's mobile and desktop versions side-by-side.
- Text:** Given increasing use of mobile there's a growing debate over the future of the conventional website. The balance between content and content is hard to find, and greatly...

Middle Column:

- Date:** Thursday February 23 2012
- Title:** Just One More Out; Is New and Noteworthy!
- Image:** A screenshot of the website's mobile and desktop versions side-by-side.
- Text:** Get the greasy popcorn out of the microwave, dim those glaring lights, snuggle up with that so-called loved one - for our new iOS app has just launched! Targeted at midnight...

Right Column:

- Date:** Thursday March 01 2012
- Title:** Ribot launch new multi-device site
- Image:** A screenshot of the website's mobile and desktop versions side-by-side.
- Text:** Given increasing use of mobile there's a growing debate over the future of the conventional website. The balance between content and content is hard to find, and greatly...

<http://ribot.co.uk/>

The image displays three versions of a mobile website for the "Clean Air Commute Challenge". All three versions have a blue header bar at the top with the "CLEAN AIR WORKS" logo in a white cloud. The header also contains links for "REGISTER", "ENTER DAILY COMMUTE", "COMMUTE OPTIONS", and "RULES".

Version 1 (Left): This version features a large central title "CLEAN AIR COMMUTE CHALLENGE" in bold blue letters. Below it is a paragraph of text: "According to the American Lung Association, the Charlotte metropolitan area ranks 10th in the nation for poor air quality issues. It has never been more important to learn about the impact of air pollution and what steps we can take to improve it." Underneath the text are icons for various commute options: Ride Cars, Bike, Carpool, Vanpool, Walk, and Telecommute. A yellow button labeled "REGISTER" is centered below these icons. At the bottom, there is a green grassy hill graphic with the text "KNOW THE CODES" and a horizontal bar divided into five colored segments (green, yellow, orange, red, purple).

Version 2 (Middle): This version has a similar layout but with some changes. The title "CLEAN AIR COMMUTE CHALLENGE" is slightly smaller and positioned higher up. The paragraph of text is identical to Version 1. The commute option icons are arranged horizontally below the text. A yellow button labeled "REGISTER" is centered below the icons. At the bottom, there is a green grassy hill graphic with the text "KNOW THE CODES" and a horizontal bar divided into five colored segments (green, yellow, orange, red, purple). The "REGISTER" button is larger and more prominent than in Version 1.

Version 3 (Right): This version has a different layout. The title "CLEAN AIR COMMUTE CHALLENGE" is at the top. Below it is a yellow button labeled "REGISTER". To the right of the button is a vertical stack of four yellow buttons labeled "ENTER DAILY COMMUTE", "COMMUTE OPTIONS", and "RULES". The paragraph of text and commute option icons are located below the title. At the bottom, there is a green grassy hill graphic with the text "KNOW THE CODES" and a horizontal bar divided into five colored segments (green, yellow, orange, red, purple). The "REGISTER" button is located to the left of the vertical stack of buttons.

<http://clearairchallenge.com/>

 **60+**
EARTH HOUR

Accueil Earth Hour ? Mobilisation Actualités Partenaires

EARTH HOUR

60 MINUTES POUR LA PLANÈTE
LE SAMEDI 26 MARS 2011
① DE 20H30 À 21H30 ②

**ÉTEIGNONS NOS LUMIÈRES
POUR Y VOIR PLUS CLAIR !**

f PARTAGER t RETWEET
MOBILISEZ-VOUS →

"Earth Hour est LA manifestation mondiale en faveur de la lutte contre le réchauffement climatique."
Serge Ono - Directeur Général du WWF France

 **ACTUALITÉS**
Le Groupe Pierre & Vacances s'engage pour le climat au-delà d'Earth Hour
Le 12 Mars
Il n'y a pas de petits gestes pour la planète...
Le 12 Mars
Saluons la mobilisation des collectivités françaises !
Le 12 Mars

21 | 18 | 17
JOURS HOURS MINUTES
AVANT EARTH HOUR

Retrouvez toutes les informations sur la **climate week**

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Serge Ono - Directeur Général du WWF France



<http://earthhour.fr/>

The website features a top navigation bar with links: El Sendero, Selva Maya, Coco Tour, Promociones, Cacao Fresco, and Puntadas. A large orange banner at the top reads "¡Donde Nace el Chocolate!" with a small tree icon. Below the banner is a large image of a cacao plantation.

El Sendero del Cacao

En la Finca La Estanzuela García Jiménez crean una entretenida y educativa manera de conocer los orígenes de un vaso dulce y chocolate de calidad, desde una finca rica de cacao, hasta la transformación y elaboración "casa de los dioses".

Reservate desde la planta del cacao hasta su transformación en chocolate. Esto es mediante el tour de recepciones, visita de productores y actividades. Va dirigido a turistas, familias, empresas, instituciones, asociaciones y amantes del chocolate.

[Reserva](#)

Experiencia de cultura pura y chocolate... ¡y así nació el Cacahuamilpa!

[tripadvisor](#)

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[tripadvisor](#)

Video

[Create an account on YouTube to view this video](#)

El Sendero del Cacao en Facebook

Like 167

El Sendero del Cacao tiene visitas turísticas realizadas desde el Teatro Nacional el Quinto de el Cacao Tour visitando el Museo de las Américas Mérida y Mérida Chichen Itza. Recorre el Río Bacalar.

[Facebook](#)

<http://www.cacaotour.com/index.php/en/home>

HOME APPARTEMENTEN LIGGING PRAKTISCH CONTACT N. 11

SLEEPSTREET

Gemeubelde appartementen in hartje Gent, te huur voor korte of langere termijnen.

HERE ARE YOUR HOSTS:

Loli-Hans! van Frankrijk, Hans van de woonlijn, Loli maakt graag kleren.

BIT ONS GASTENBOEK

"Hoe leuk! Mogen ik niet al in Gent wonen, ik kom dan zeker een weekendje bij jullie logeren!" —Claire Bracke

SLEEPSTREET NIEUWS!

23 maart — Just around the corner: very cool Sleepstreet blogpost! Reageren >

HOME APPARTEMENTEN LIGGING PRAKTISCH CONTACT N. 18

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PICTURES OF OUR 4 APARTMENTS:

STEUN ONS OP FACEBOOK

23 maart — Just around the corner: very cool Sleepstreet blogpost! Reageren >

HOME APPARTEMENTEN LIGGING PRAKTISCH CONTACT N. 19

SLEEPSTREET

Purefied apartments in the heart of Ghent, to rent for short or longer term. Reservation: +32 404 607 400

PICTURES OF OUR 4 APARTMENTS:

<http://www.sleepstreet.be/>

The image displays three mobile device screens side-by-side, each showing a different view of the Launch Kit website. The website has a dark blue header with the 'Launch Kit' logo and 'Rocket Powered Custom Websites'. The main headline is 'High End Web Design Without Sky-High Pricing'. Below the headline are three bullet points: 'No Off-the-Shelf Templates', 'No Expensive Overhead Fees', and 'No Vendor Lock-In'. A large orange 'Send me more info' button is prominently displayed.

Left Screen (Landscape View):

- Section: How It Works**
- Diagram:** Shows a rocket launching from a launch pad, with icons for a pen, a person with a clock, a gear, and a computer monitor.
- Text:** 'Launch Kit is the quickest way to get your brand online and make it count. We've streamlined the web design process to cut overhead costs without sacrificing quality. We're changing the way people think about designing websites.'
- Background:** Features a cartoon illustration of a rocket launching from a desert island.

Middle Screen (Portrait View):

- Section: How It Works**
- Diagram:** Shows a rocket launching from a launch pad, with icons for a pen, a person with a clock, a gear, and a computer monitor.
- Text:** 'Launch Kit is the quickest way to get your brand online and make it count. We've streamlined the web design process to cut overhead costs without sacrificing quality. We're changing the way people think about designing websites.'
- Background:** Features a cartoon illustration of a rocket launching from a desert island.

Right Screen (Portrait View):

- Section: How It Works**
- Diagram:** Shows a rocket launching from a launch pad, with icons for a pen, a person with a clock, a gear, and a computer monitor.
- Text:** 'Launch Kit is the quickest way to get your brand online and make it count. We've streamlined the web design process to cut overhead costs without sacrificing quality. We're changing the way people think about designing websites.'
- Background:** Features a cartoon illustration of a rocket launching from a desert island.

<http://getlaunchkit.com/>

Kingshill Cars

Private car and taxi hire for the Kings Hill and Malling area

Call now on **01732 871234** for bookings and enquiries

[HOME](#) [SERVICES](#) [FARES](#) [ACCOUNTS](#) [BOOKINGS & QUOTES](#) [CONTACT](#)

Need a taxi now?
Call **01732 871234**
[Book Online here](#)

We provide a reliable and efficient service in the Kings Hill area, with taxi hire to get you quickly from A to B, a corporate car service for business users and special hire services too including wedding car hire, courier service and airport runs.

Planning a trip? Get a quote now.
Tell us where you're going and when you want to go and we'll get back to you straight away with a quote for your journey.

A Frequent user? Open an account.
If you're a business or a regular user, then opening an account for your car hire services is just the thing for you.

Corporate Accounts
We offer great deals and the usual exceptional service for our business account users.

Wedding Hire
We can provide the quality car hire service that you deserve for your special day.

Courier Services
Get your business documents or deliveries from A to B quickly and reliably, on time, every time.

Airport Runs
Whether picking up or putting off, Kingshill Cars can get you to the airport of your choice.

Our Fares
At Kingshill Cars we provide a great service and very competitive pricing with our fares.
For more information on our fares and to see a guideline of our pricing, please visit our [Fares page](#).

Join Our Mailing List
Stay up to date with latest offers, news and promotions with our email newsletters.
Your name:
Your email:

Drivers Wanted
Kingshill Cars offers a great environment for professional, motivated drivers.
If you fit the bill then we'd love to hear from you. For more information, please don't hesitate to get in touch.

Limited offer - No extra charge for taxis after midnight!

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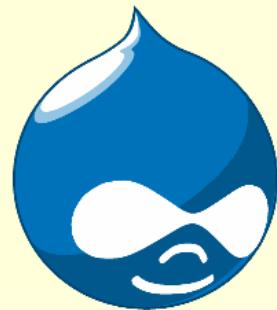
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<http://www.kingshillcars.com/>

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Možnosti řešení

1. Mobilní verze jako samostatný web

Příklady:

- <http://m.seznam.cz/>
- <http://m.centrum.cz/>

Moduly:

- <http://drupal.org/project/services>
 - integrace externích aplikací a rozhranní REST, XMLRPC, JSON , JSON-RPC , SOAP , AMF atd.



Možnosti řešení

2. Detekce zařízení a pro každé připravit speciální verzi

Moduly:

- http://drupal.org/project/mobile_tools
 - detekce prohlížeče a zařízení
 - automatické přesměrování na mobilní web
 - automatické přepínání témat na základě detekce zařízení
 - úprava počtu uzel hlavní stránky
- <http://drupal.org/project/context>
 - zobrazení obsahu na základě souvislostí
- <http://drupal.org/project/themekey>
 - výběr tématu vzhledu na základě stanovaných pravidel

Témata:

- http://drupal.org/project/fusion_mobile



Možnosti řešení

3. Detekce šířky pomocí CSS3 Media Queries

Podpora:

- IE9+, Firefox 3.6+, Safari 4+, Chrome 11+, Opera 10.6+, iOS Safari 3.2+, Opera Mini 5+, Opera Mobile 10+, Android Browser 3+

Podpora adaptivního layoutu a médií od IE6+

- respond.js – <https://github.com/scottjehl/Respond#readme>

Důležité vlastnosti:

- width – šířka cílové oblasti výstupního zobrazovacího zařízení (viewport) včetně případných posuvníků
- height
- device-width – šířka výstupního zobrazovacího zařízení (bez ohledu na velikost okna)
- device-height
- orientation – na výšku, na šířku

Další vlastnosti viz <http://www.w3.org/TR/css3-mediaqueries/#contents>

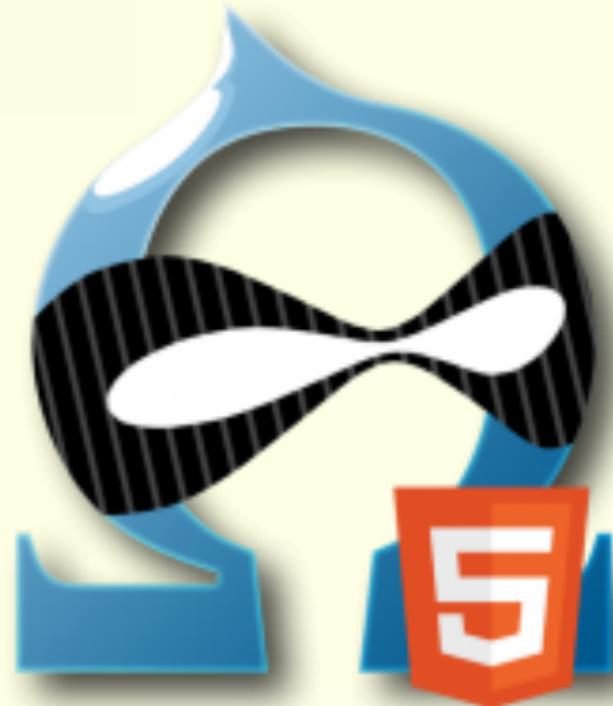
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<http://drupal.org/project/adaptivetheme>



<http://drupal.org/project/omega>



http://drupal.org/project/pixture_reloaded



<http://drupal.org/project/corolla>



<http://drupal.org/project/Respond>



<http://drupal.org/project/sky>



<http://drupal.org/project/at-commerce>



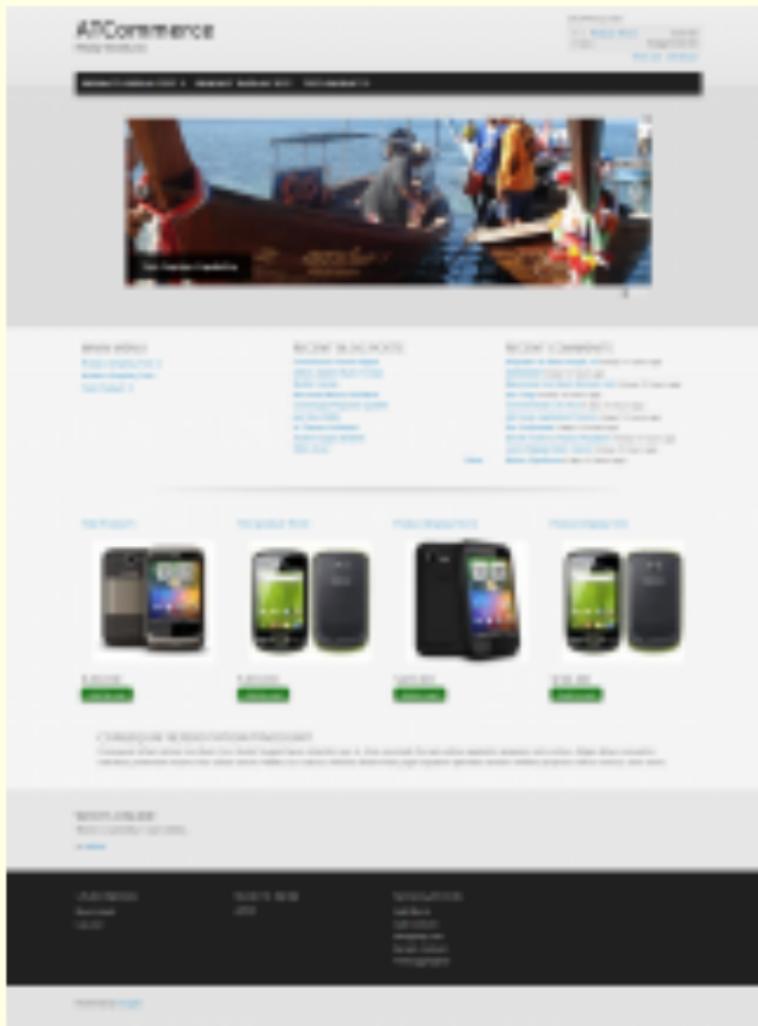
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<http://drupal.org/project/corolla>



<http://drupal.org/project/sky>



<http://drupal.org/project/at-commerce>



<http://drupal.org/project/adaptivetheme>



<http://drupal.org/project/omega>



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<http://drupal.org/project/corolla>



<http://drupal.org/project/Respond>



<http://drupal.org/project/sky>



<http://drupal.org/project/at-commerce>



<http://drupal.org/project/Respond>



Omega

Responsive/Mobile-First HTML5 Base Framework s možností využití gridu (12, 16 a 24 sloupcového rozložení) pro vytváření vlastních přizpůsobivých témat vzhledu reagujících na šířku zobrazovacího zařízení. Ve výchozím nastavení jsou to rozložení Narrow 720px, Normal 960px a Wide 1200px, případně je možné využít i pružného rozložení Fluid v relativních jednotkách em.

- <http://drupal.org/project/omega>
- <http://omega.developmentgeeks.com>
- <http://960.gs>
- podpora modulů
 - Delta
 - Context
 - Omega tools – export a obnova nastavení, Drush integrate, průvodce podtématem
- komplexní framework pro tvorbu tématu

Documentace: <http://drupal.org/node/819164>

FAQ: <http://groups.drupal.org/omega-framework>



Postup vytvoření subtématu:

1. Rozbalte téma [Omega 7.x-3.0](#) do adresáře **sites/all/themes/**.
2. Zkopírujte připravené téma z adresáře **sites/all/themes/omega/starterkits/** např. **omega-html5** do adresáře **sites/all/themes/** a přejmenujte jej na libovolný název např. **my-theme**.
3. V nově vytvořeném tématu přejmenujte:
 - **starterkit_omega_html5.info** na **my_theme.info**
 - **css/YOURTHEME-alpha-default...css** na **my-theme-alpha-default...css**
4. V souboru **my_theme.info**:
 - upravte hodnoty parametrů
 - **name** = My Theme
description = Responsive HTML5 Base Theme
 - odstraňte řádky
 - ; IMPORTANT: DELETE THESE TWO LINES IN YOUR SUBTHEME

hidden = TRUE
starterkit = TRUE
 - připojení stylu pro tisk
 - ; OPTIONAL STYLESHEETS
css[print.css][name] = Your custom print styles
css[print.css][description] = This file holds all the custom print CSS of your theme.
css[print.css][options][weight] = 11
css[print.css][options][media] = print

5. V **admin/appearance** (Vzhled) povolte nově vytvořené subtéma.



Omega

Nastavení:

- výchozí zobrazení je určeno pro zařízení, která nepodporují media queries
- ostatním se zobrazí rozvržení na základě šířky
- scale nastavuje zvětšení pro Android (scale 1 ~ zoom 1:1 ~ 100 %)

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Obrázky a multimédia

CSS řešení

- obrázky se načítají v maximálním formátu
- velikost se přizpůsobuje CSS vlastností max-width: 100% (z důvodu nastavení správného poměru stran se zpravidla doplňuje o javaskript)

Responsive Images - načítání obrázků v různých velikostech na základě šířky okna prohlížeče

Lazy Loading – potřebaná data jsou nahrávána až když jsou zapotřebí

- <http://drupal.org/project/lazyloadad> – zpozděné načítání reklamy

JAIL (Javascript Asynchronous Image Loading) – asynchronní načítání obrázků nahrazující jQuery

Lazy Load – obrázky jsou načítán pouze v zorném poli prohlížeče (viewportu), ostatní načítání dat je pozastaveno

- <http://drupal.org/project/jail>
- http://drupal.org/project/lazy_image_loader

LABjs – paralelní načítání obrázků, které ovšem neblokuje vykreslování stránky

- <http://drupal.org/project/labjs>



Studijní materiály

Knížky:

- <http://www.abookapart.com/products/responsive-web-design>
- <http://www.abookapart.com/products/mobile-first>

Web:

- <http://html5boilerplate.com/>
 - normalize.css – náhrada tradičních reset.css – sjednocení stylování prohlížečů
 - zrychlení načítání skriptů
 - Google Chrome Frame – zpřístupnění moderních webových technologií v IE6+
 - respond.js – podpora adaptivního layoutu a médií již od IE6+
 - PNGfix – podpora průhlednosti
 - jQuery a mnoho dalšího
- <http://lessframework.com/>
 - CSS grid systém pro návrh adaptivních webových stránek
- <http://cssgrid.net/>
 - 12 sloupcový grid
- <http://www.columnal.com/>
 - 12 sloupcový grid

Responsive Web Design

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