

# Simply Responsive **CSS3**



Denise R. Jacobs //  
ParisWeb// le 15 October 2011 //

# Simple & Responsive Tweets

Who I am:

@denisejacobs

This fine event:

@parisweb #parisweb

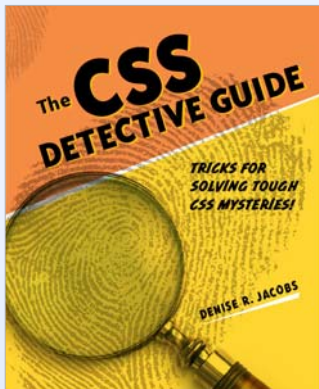
I'm talking about:

#css3sr



# A little about me

Denise R. Jacobs is an author, speaker, design thinker, and educator. She is the author of **The CSS Detective Guide**, and is a co-author for **InterAct with Web Standards: A Holistic Approach to Web Design**. She is a Consultant Web Design Trainer and Creativity Evangelist based in Miami, Florida.



Simple?





Responsive?



# The goal





How???



# Start here...

## 1. Know Your CSS3

- Getting started
  - What's new
  - Rules of the road
  - Helping tools and scripts
- Properties
  - Standard effects
  - Advanced effects
- Selectors



# ...Continue here

## 2. Get Responsive

- Shift your brain
  - Mobile first
  - Watch out
- 3 components
  - Flexible grid
  - Flexible images
  - Media queries



# ...And end here!

## 2. Becoming Responsive (cont'd)

- 4 Steps
  - Plan your design
  - Crunch the numbers
  - Determine the breaking points
  - Add media queries

## 3. Resources







# What's New in CSS3

Simply Responsive

CSS3



# What's New in CSS3?

CSS3 is the third generation of the CSS specification recommendations from the W3C.

In CSS3 there are new selectors, pseudo-elements and classes, properties, and values specifically created to answer the needs and solve the problems of modern web design and development.

# CSS3 Modularity

CSS3 has been broken up into different unique modules. This means is that, for example, the particular CSS properties and values for layout is grouped into one specific module.



# CSS3 Modularity: Benefits

- Browser producers can now implement CSS3 module by module
- Speeds up the browser implementation process
- Encourages innovation



## STANDARDS

Web Design and Applications

Web Architecture

Semantic Web

XML Technology

Web of Services

Web of Devices

Browsers and Authoring Tools

All Standards and Drafts

About W3C Standards

- Template Layout
- Backgrounds and Borders
- Ruby
- Basic User Interface
- Basic Box Model
- Grid Positioning
- Speech
- Marquee
- Style Attribute Syntax
- Cascading and Inheritance
- Color
- Fonts
- Text
- Generated Content for Paged Media
- Generated and Replaced Content
- Values and Units
- Web Fonts
- Behavioral Extensions to CSS
- Line Layout
- Flexible Box Layout
- Image Values
- 2D Transformations
- Multi-column Layout
- 3D Transformations
- Namespaces
- Transitions
- Animations
- View Module
- Media Queries
- Paged Media
- Selectors



# Resources: New in CSS3

[http://www.w3.org/TR/tr-groups-all#tr\\_Cascading\\_Style\\_Sheets\\_\\_CSS\\_\\_Working\\_Group](http://www.w3.org/TR/tr-groups-all#tr_Cascading_Style_Sheets__CSS__Working_Group)





# Colors in CSS3: RGB

- Regular RGB

`rgb(x, x, x):`

ex. `rgb(255, 0, 0)`

- RGB with alpha-opacity

`rgba(x, x, x, y):`

An RGB value

ex. `rgba(255, 0, 0, 0.2)`



# RGBA Color

Alpha opacity:

0.0 = 0% = no opacity

1.0 = 100% = full opacity



# Colors in CSS3: HSL

HSL stands for hue, saturation, and luminosity (lightness)

- Regular HSL

`hsl(x%, x%, x%):`

ex. `hsl(0, 100%, 50%)`

- HSL with alpha-opacity

`hsla(x%, x%, x%, y):`

ex. `hsla(0, 100%, 50%, 0.5)`



# HSV Color Wheel

0° – Red

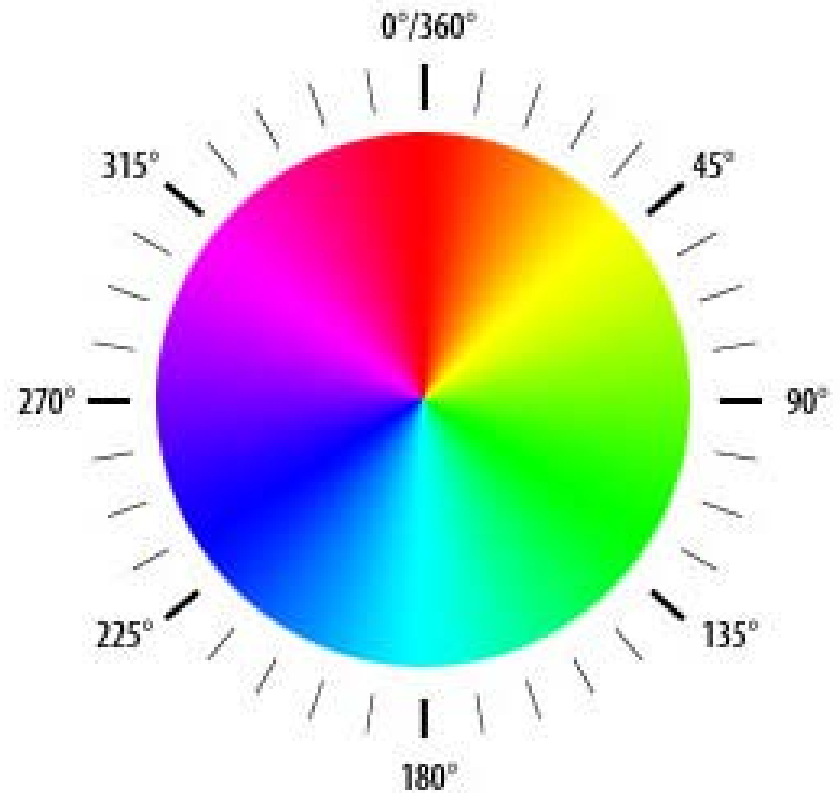
60° – Yellow

120° – Green

180° – Cyan

240° – Blue

300° – Magenta



# HSL Color Picker Tool

1 °H 51% Lum

100 %S

48 %L

0 300 60 240 120 180

245 R F50400 HEX FFFFFFF FFFFFFF FFFFFFF FFFFFFF FFFFFFF FFFFFFF FFFFFFF FFFFFFF FFFFFFF FFFFFFF [Permalink: the colors' URL](#)

4 G #F50400 #HEX

0 B

CSS:  style=""  : space

HEX  HSL  HSLa  RGB  RGBa

color:  background-color:  border-color:

```
background-color: hsla(1, 100%, 48%, 1.0);
```



# Getting Started with CSS3: The Rules of the Road





# CSS3 Browser Compatibility



# The Scoop

- Many properties are browser-specific, requiring vendor prefixes
- Plus there is a standard property
- There are syntax differences between browser-specific properties and the standard property
- All of this causes an increase in the amount of CSS

# Code bloat in action

## Ideally:

```
a.polaroid:active {  
  z-index: 999;  
  border-color: #6A6A6A;  
  box-shadow: 15px 15px 20px  
    rgba(0,0, 0, 0.4);  
  transform: rotate(0deg)  
    scale(1.05);  
}
```

## Reality:

```
a.polaroid:active {  
  z-index: 999;  
  border-color: #6A6A6A;  
  -webkit-box-shadow: 15px  
    15px 20px rgba(0,0, 0,  
    0.4);  
  -moz-box-shadow: 15px 15px  
    20px rgba(0,0, 0, 0.4);  
  box-shadow: 15px 15px 20px  
    rgba(0,0, 0, 0.4);  
  -webkit-transform:  
    rotate(0deg)  
    scale(1.05);  
  -moz-transform:  
    rotate(0deg)  
    scale(1.05);  
  transform: rotate(0deg)  
    scale(1.05);  
}
```





# Doesn't Validate



## The W3C CSS Validation Service

W3C CSS Validator results for TextArea (CSS level 3)

Jump to: [Errors \(7\)](#) [Warnings \(1\)](#) [Validated CSS](#)

### W3C CSS Validator results for TextArea (CSS level 3)

#### Sorry! We found the following errors (7)

URI : *TextArea*

45	div, h1, h2, img, a	Property behavior doesn't exist : url(iepngfix.htc) url(iepngfix.htc)
291	#contentcolumn	Property -moz-border-radius doesn't exist : 20px 20px 0 0 20px 20px 0 0
292	#contentcolumn	Property -webkit-border-top-left-radius doesn't exist : 20px 20px
293	#contentcolumn	Property -webkit-border-top-right-radius doesn't exist : 20px 20px
294	#contentcolumn	Property -moz-box-shadow doesn't exist : 0 5px 20px rgba(0,0,0,0.6) 0 5px 20px rgba(0,0,0,0.6)
295	#contentcolumn	Property -webkit-box-shadow doesn't exist : 0 5px 20px rgba(0,0,0,0.6) 0 5px 20px rgba(0,0,0,0.6)
296	#contentcolumn	0 is not a box-shadow value : 0 5px 20px rgba(0,0,0,0.6) 0 5px 20px rgba(0,0,0,0.6)



# None of the older IE's support CSS3

...as in "not any."



# IE9 now supports CSS3

## CSS3 Properties

	 IE				
	6	7	8	9	10
RGBA	✗	✗	✗	✓	✓
HSLA	✗	✗	✗	✓	✓
Background Size	✗	✗	✗	✓	✓
Multiple Backgrounds	✗	✗	✗	✓	✓
Border Image	✗	✗	✗	✗	✗
Border Radius	✗	✗	✗	✓	✓
Box Shadow	✗	✗	✗	✓	✓
Text Shadow	✗	✗	✗	✗	✗
Opacity	✗	✗	✗	✓	✓
CSS Animations	✗	✗	✗	✗	✗
CSS Columns	✗	✗	✗	✗	✓
CSS Gradients	✗	✗	✗	✗	✓
CSS Reflections	✗	✗	✗	✗	✗
CSS Transforms	✗	✗	✗	✓	✓
CSS Transforms 3D	✗	✗	✗	✗	✗
CSS Transitions	✗	✗	✗	✗	✗
CSS FontFace	✓	✓	✓	✓	✓
FlexBox	✗	✗	✗	✗	✓

...But still not as fully as the other browsers yet.





# Resources: IE9 CSS3 support

[http://msdn.microsoft.com/en-us/ie/ff468705.aspx#\\_Web\\_standards\\_support](http://msdn.microsoft.com/en-us/ie/ff468705.aspx#_Web_standards_support)

<http://msdn.microsoft.com/en-us/library/cc351024%28v=vs.85%29.aspx>

<http://www.impressivewebs.com/css3-support-ie9/>



# Tools you'll need:

1. CSS3 Property browser support charts
2. CSS3 Selector browser support charts
3. CSS3 Specifications
4. All browsers to test in and/or cross-browser testers



# CSS3 Properties

## CSS3 Property browser support charts

	FIREFOX		SAFARI		IE					CHROME	OPERA	FIREFOX	SAFARI	OPERA	
	3.6	4	5	6	7	8	9	10	10	11.1	4	5	11.1		
RGBA	✓	✓	✓	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	87%	
CSLA	✓	✓	✓	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	86%	
Background Size	✗	✓	✓	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	83%	
Multiple Background	✗	✓	✓	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	83%	
Border Image	✓	✓	✓	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓	83%	
Border Radius	✓	✓	✓	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	87%	
Box Shadow	✓	✓	✓	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	86%	
Text Shadow	✓	✓	✓	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓	53%	
Opacity	✓	✓	✓	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	86%	
CSS Animations	✗	✗	✓	✗	✗	✗	✗	✗	✓	✗	✗	✓	✗	39%	
CSS Columns	✓	✓	✓	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	81%	
CSS Gradients	✗	✓	✓	✗	✗	✗	✗	✓	✓	✓	✓	✓	✓	78%	
CSS Reflections	✗	✗	✓	✗	✗	✗	✗	✗	✓	✗	✗	✓	✗	39%	
CSS Transforms	✓	✓	✓	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	84%	
CSS Transforms 3D	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	✗	12%	
CSS Transitions	✗	✓	✓	✗	✗	✗	✗	✗	✓	✓	✓	✓	✓	47%	
CSS FontFace	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	97%	

<http://www.findmebyip.com/litmus>







# The CSS3 Specifications

STANDARDS

PARTICIPATE

MEMBERSHIP

ABOUT W3C

The CSS3 Specifications are THE resource for finding out exactly is the intended behavior and use of any given property.

See also the [planned specifications](#) of the CSS Working Group.

This page summarizes the relationships among specifications, whether they are finished standards or drafts. Below, each title links to the most recent version of a document. For related introductory information, see: [HTML & CSS](#), [Mobile Web](#).

[http://www.w3.org/standards/techs/css#w3c\\_all](http://www.w3.org/standards/techs/css#w3c_all)

[W3C Recommendations](#) have been reviewed by W3C Members, by software developers, and by other W3C groups and interested parties, and are endorsed by the Director as Web Standards. Learn more about the [W3C Recommendation Track](#).

[Group Notes](#) are *not* standards and do not have the same level of W3C endorsement.

## Standards

2008-04-11

### Cascading Style Sheets, level 2 (CSS2) Specification

errata

A more recent draft may replace this Recommendation.

This specification defines "level 2" of CSS, which allows authors and users to attach style (e.g., fonts, spacing, and aural cues) to structured documents (e.g., HTML documents and

# Cross-browser testers

[http://tredosoft.com/Multiple\\_IE](http://tredosoft.com/Multiple_IE)



<http://crossbrowsertesting.com/>

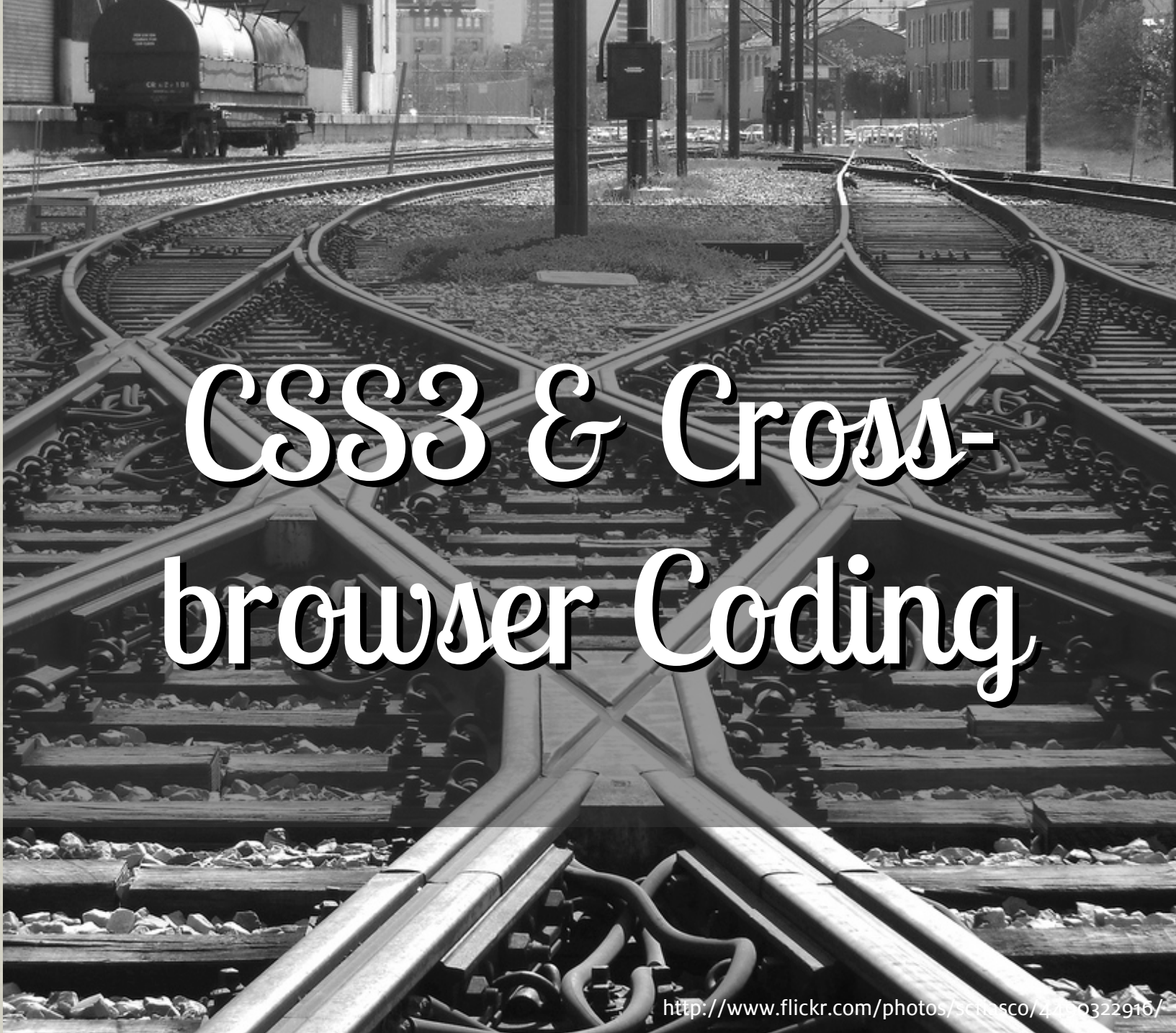
(paid)



<http://browsershots.org/>

(free)

# CSS3 & Cross-browser Coding



# The Goal: Code that works ~~in~~ all most browsers





# Not all browsers are created equal



# How can we achieve compatibility?



# Steps to get as close as possible

1. Leverage source order
2. Filter it
3. Let tools do all of the work





# Leverage source order

- Place default properties first
- Place browser-specific properties ahead of standard properties
- The standard properties will override the vendor's when the standard is established.



# A Proper Stack

```
.gradient {  
color: #fff;
```



# A Proper Stack

```
.gradient {  
color: #fff;  
background: #aaaaaa url(gradient_slice.jpg) 0 0  
  x-repeat; /*fallback background color & image*/
```



# A Proper Stack

```
.gradient {  
color: #fff;  
background: #aaaaaa url(gradient_slice.jpg) 0 0  
  x-repeat; /*fallback background color & image*/  
background-image: -moz-linear-gradient(top,  
  #07407c, #aaaaaa); /* gradient for Mozilla */
```



# A Proper Stack

```
.gradient {  
color: #fff;  
background: #aaaaaa url(gradient_slice.jpg) 0 0  
  x-repeat; /*fallback background color & image*/  
background-image: -moz-linear-gradient(top,  
  #07407c, #aaaaaa); /* gradient for Mozilla */  
background-image: -webkit-gradient(linear,left  
  top,left bottom,color-stop(0, #07407c),color-  
  stop(1, #aaaaaa)); /* gradient for the Webkits  
  */
```



# A Proper Stack

```
.gradient {
color: #fff;
background: #aaaaaa url(gradient_slice.jpg) 0 0
  x-repeat; /*fallback background color & image*/
background-image: -moz-linear-gradient(top,
  #07407c, #aaaaaa); /* gradient for Mozilla */
background-image: -webkit-gradient(linear, left
  top, left bottom, color-stop(0, #07407c), color-
  stop(1, #aaaaaa)); /* gradient for the Webkits
  */
-ms-filter:
  "progid:DXImageTransform.Microsoft.gradient(sta
  rtColorStr='#07407c', EndColorStr='#aaaaaa')";
  /* filter for IE8 (& IE9) */
```



# A Proper Stack

```
.gradient {
color: #fff;
background: #aaaaaa url(gradient_slice.jpg) 0 0
  x-repeat; /*fallback background color & image*/
background-image: -moz-linear-gradient(top,
  #07407c, #aaaaaa); /* gradient for Mozilla */
background-image: -webkit-gradient(linear, left
  top, left bottom, color-stop(0, #07407c), color-
  stop(1, #aaaaaa)); /* gradient for the Webkits
  */
-ms-filter:
  "progid:DXImageTransform.Microsoft.gradient(sta
  rtColorStr='#07407c', EndColorStr='#aaaaaa')";
  /* filter for IE8 (& IE9) */
filter:
  progid:DXImageTransform.Microsoft.gradient(star
  tColorStr='#07407c', EndColorStr='#aaaaaa');
} /* filter for IE7 and lower */
```

# Apply a Filter

- If you *must* have the effect in IE It 8, such as alpha opacity, gradient, shadow, transitions etc. you could use a proprietary IE filter.
- The `-ms-filter` attribute is an extension to CSS. This syntax will allow other CSS parsers to skip the value of this unknown property completely and safely. It also avoids future name clashes with other CSS parsers.
- In IE 8 mode, filters must be prefixed with `"-ms-"` and the PROGID must be in single or double quotes to make sure IE 8 renders the filters properly.

# Filters: {Caveat Coder}

- IE filters work, but are essentially hacks
  - IE filters are proprietary and thus not part of any standard specification, and never will be





# Resources: IE Filters

**Microsoft Visual Filters and Transitions Reference**

<http://msdn.microsoft.com/en-us/library/ms532853%28v=VS.85%29.aspx>



# Let the tools do the work

- We'll talk about those next!





# CSS3 Tools

# Useful CSS3 Tools

1. CSS3 Generators
2. Helper Scripts
3. Browser Feature Detection
4. Templates





Simply Responsive

CSS3



# CSS3 Generators



# CSS3Please.com

```
/* -----  
CSS3, Please! The Cross-Browser CSS3 Rule Generator  
-----  
  
You can edit the underlined values in this css file,  
but don't worry about making sure the corresponding  
values match, that's all done automagically for you.  
  
Whenever you want, you can copy the whole or part of  
this page and paste it into your own stylesheet.  
----- */  
  
/* [to clipboard] [toggle rule off] */  
.box_round {  
  -moz-border-radius: 12px; /* FF1+ */  
  -webkit-border-radius: 12px; /* Saf3-4 */  
  border-radius: 12px; /* Opera 10.5, IE 9, Saf5, Chrome */  
}  
/* [toggle styling] */  
  
/* [to clipboard] [toggle rule off] */  
.box_shadow {  
  -moz-box-shadow: 0px 0px 4px #ffffff; /* FF3.5+ */  
  -webkit-box-shadow: 0px 0px 4px #ffffff; /* Saf3.0+, Chrome */  
  box-shadow: 0px 0px 4px #ffffff; /* Opera 10.5, IE 9 */  
}  
  
/* [to clipboard] [toggle rule off] */  
.box_gradient {  
  background-color: #444444;  
  background-image: -moz-linear-gradient(top, #444444, #999999); /* FF3.6 */
```

## CSS3, please!

This element will receive  
inline changes as you edit the  
CSS rules on the left. Enjoy!

# CSS3Generator.com

## CSS3 Generator<sup>v1.7</sup>

Choose Something



[Randy Jensen](#) | [@randyjensen](#) | [Chrome](#)



# CSS3Maker.com

CSS 3.0 MAKER

Home Border Radius Gradient CSS Transform CSS Animation CSS Transition RGBA Text Shadow Box Shadow Text Rotation @Font Face

CSS3 Styles

Border Radius

Style: dashed

Width: 5px

Radius: 5px

Color:

CSS3 Preview Area

Border Radius

CSS3 Codeview

```
border:dashed 5px #191919;
-moz-border-radius: 5px;
-webkit-border-radius: 5px;
border-radius: 5px;
```

Download

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Only for css  
CSS MENU

CS Menu About Us Categories Name

Css Menu Link

Css Menu Link 1

Horizontal Color Font CSS

www.htmlgenerator.com | www.onlycssmenu.com

Border-Radius Browser Compatibility

3.5+ 9+ 3.0+ 10.5+ 4.1+

Border-Radius Mobile Compatibility

BlackBerry 6+

iOS 1.0+

Your Suggestion

Name

Email

Suggestion

Submit



# CSS3 Tools at WestCiv

Style Master   Tools   Linear Gradients   Radial Gradients   Text Properties   Box Properties   Transforms   CSS3 Details

**Basics**

text color

background color

text-size

**stroke**

width

stroke color

fill color

**shadow**

h offset

v offset

blur

shadow color

**The code**

```
background-color: #FFFFFF; color: #666666; -webkit-stroke-width: 1.0px; -webkit-stroke-color: #000000; -webkit-fill-color: #FFFFFF; text-shadow: 2px 2px 2px #333333;
```

**Preview**

Preview text

[follow me on twitter](#) [buy the book](#) [take the course](#) [attend the conferences](#)

# More CSS3 Generators

<http://border-radius.com>

[http://www.colorzilla.com/  
gradient-editor/](http://www.colorzilla.com/gradient-editor/)

<http://csscorners.com>

<http://border-image.com>



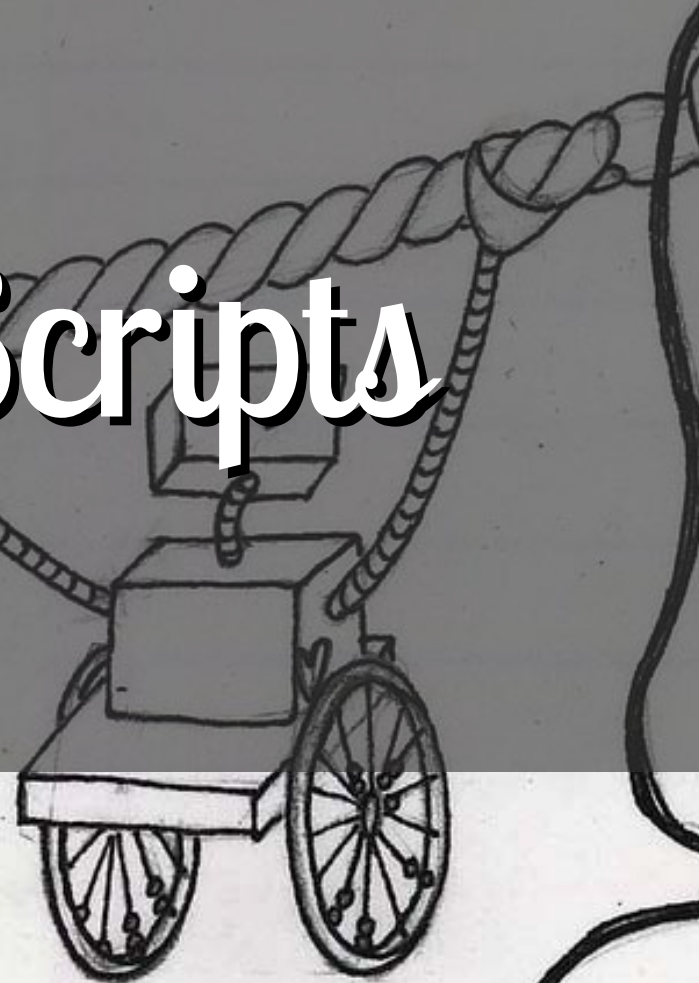
helper robot #109

knows what you're going to need

reat



# Helper Scripts



Simply Responsive  
CSS3



# Get a helping hand...

These scripts help IE It 8 behave like CSS3-compliant browsers. However, support of CSS3 properties varies between scripts.





# ie-7.js (includes 1E8 and 1E9)



ie7-js

A JavaScript library to make MSIE behave like a standards-compliant browser.

 Search projects

[Project Home](#) [Downloads](#) [Issues](#) [Source](#)

[Summary](#) | [Updates](#) | [People](#)

## About

IE7.js is a JavaScript library to make Microsoft Internet Explorer behave like a standards-compliant browser. It fixes many HTML and CSS issues and makes transparent PNG work correctly under IE5 and IE6.

## Status

Current version: 2.1 beta4.

## Usage

### IE7.js

Upgrade MSIE5.5-6 to be compatible with MSIE7.

```
<!--[if lt IE 7]>  
<script src="http://ie7-js.googlecode.com/svn/version/2.1(beta4)/IE7.js"></script>  
<![endif]-->
```

### IE8.js

Upgrade MSIE5.5-7 to be compatible with MSIE8.

```
<!--[if lt IE 8]>  
<script src="http://ie7-js.googlecode.com/svn/version/2.1(beta4)/IE8.js"></script>  
<![endif]-->
```

You do not need to include IE7.js if you are using IE8.js

### IE9.js

★ Star this project

Activity: High

Code license:  
[MIT License](#)

Labels:  
ie7, ie8, ie9, javascript, css, html

Featured downloads:

[ie7-2.1\(beta4\).zip](#)

[Show all >](#)

Blogs:

[All Blog Posts](#)  
[Eric Meyer on IE7.js](#)  
[The IE6 Equation](#)

External links:

[Getting Started](#)  
[Examples](#)  
[Hotlink](#)

Feeds:

[Project feeds](#)

Groups:

[Google Group](#)

Owners:

[Dean Edwards](#)

# CSS3Pie.com

progressive internet explorer



PIE makes Internet Explorer 6-8 capable of rendering several of the most useful CSS3 decoration features.

[Learn More](#)

## Try the DEMO

This quick demo shows just a few of the CSS3 properties PIE can render. Use the controls to adjust the CSS3 applied to the box. Load this page in IE to see that it is rendered properly!



CSS3 features

**border-radius**  
 Enable Radius size:

**box-shadow**  
 Enable Blur size:  X offset:  Y offset:

**linear-gradient**  
 Enable Top color:  Bottom color:

Options

Enable PIE (only affects IE)  
 Show CSS

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Version  
1.0beta2

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# CSS Sandpaper

## User Agent Man

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### Archives

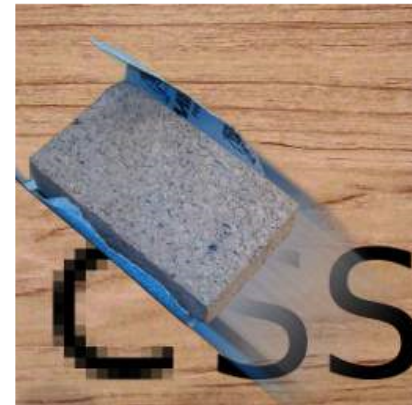
- [October 2010](#)
- [September 2010](#)
- [August 2010](#)

## cssSandpaper – a CSS3 JavaScript Library

The cssSandpaper JavaScript library looks at the stylesheets in an HTML document and, where possible, smooths out the browser differences between CSS3 properties like `transform`, `opacity`, `box-shadow` and others. This script is not only useful for developers who want to support CSS3 in IE (which doesn't support it in IE natively) but in other browsers which implement their own vendor-specific variants of these properties.

For a good introduction to cssSandpaper and how it works under the covers, you may want to first read these blog-posts:

- [Cross Browser Transforms — even in IE](#): this article talks about how why cssSandpaper was created and how it works under the hood. It also has several interesting examples that can be seen by all modern web browsers.
- [Cross-Browser Animated CSS Transforms — even in IE](#): introduces scripting CSS3 properties to create some interesting visual effects.



*Remix of images by Parée Erica and Hans Christophersen*

## How to Use

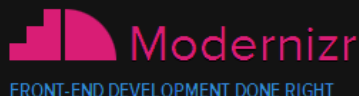
1. Download the JavaScript archive linked to at the end of this manual
2. Put the following code in the `head` of your document



# Browser Feature Detection



# Modernizr.com



DOWNLOAD DOCUMENTATION RESOURCES NEWS

“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 [YepNope.js](#) micro-library as `Modernizr.load()`, 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 [full list of features](#) that Modernizr detects, or learn more about [conditional resource loading with Modernizr](#).

## Download Modernizr 2

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

[View documentation](#)



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



- Follow us on Twitter
- Contribute on github
- Subscribe with RSS
- Donate to Modernizr

## Get started with Modernizr

While Modernizr gives you finer control over the experience through JavaScript-driven feature detection, it is important to continue to use best practices throughout your development process. Use progressive enhancement wherever you can, and don't sacrifice accessibility for convenience or performance.

- [Documentation: Getting started](#)
- [Taking Advantage of HTML5 and CSS3 with Modernizr](#), Faruk Ateş
- [How to use Modernizr](#), Inayati de León
- [wiki] [The Undetectables: features that cannot be detected](#)
- [wiki] [Cross-browser Polyfills](#)

Also check out our [Resources section](#).

**Tip:** use [haz.io](#) to quickly test your current browser's features.

## Latest news

September 1st, 2011

[Modernizr and CDNs](#)

A quick guide on when to use which version of Modernizr: development, CDN and production.

PREVIOUS

June 1st, 2011

[Modernizr 2](#)

May 12th, 2011

[Modernizr 1.7 changelog](#)

January 17th, 2011

[Modernizr 2 Beta](#)

# What does Modernizr do?

Modernizr detects which CSS3 (and HTML5) properties are supported by the browser, and appends classes to the <html> tag, which then allows you to create styles to target specific properties to individual browsers.

It is a premier progressive enhancement tool!



# How to use Modernizr

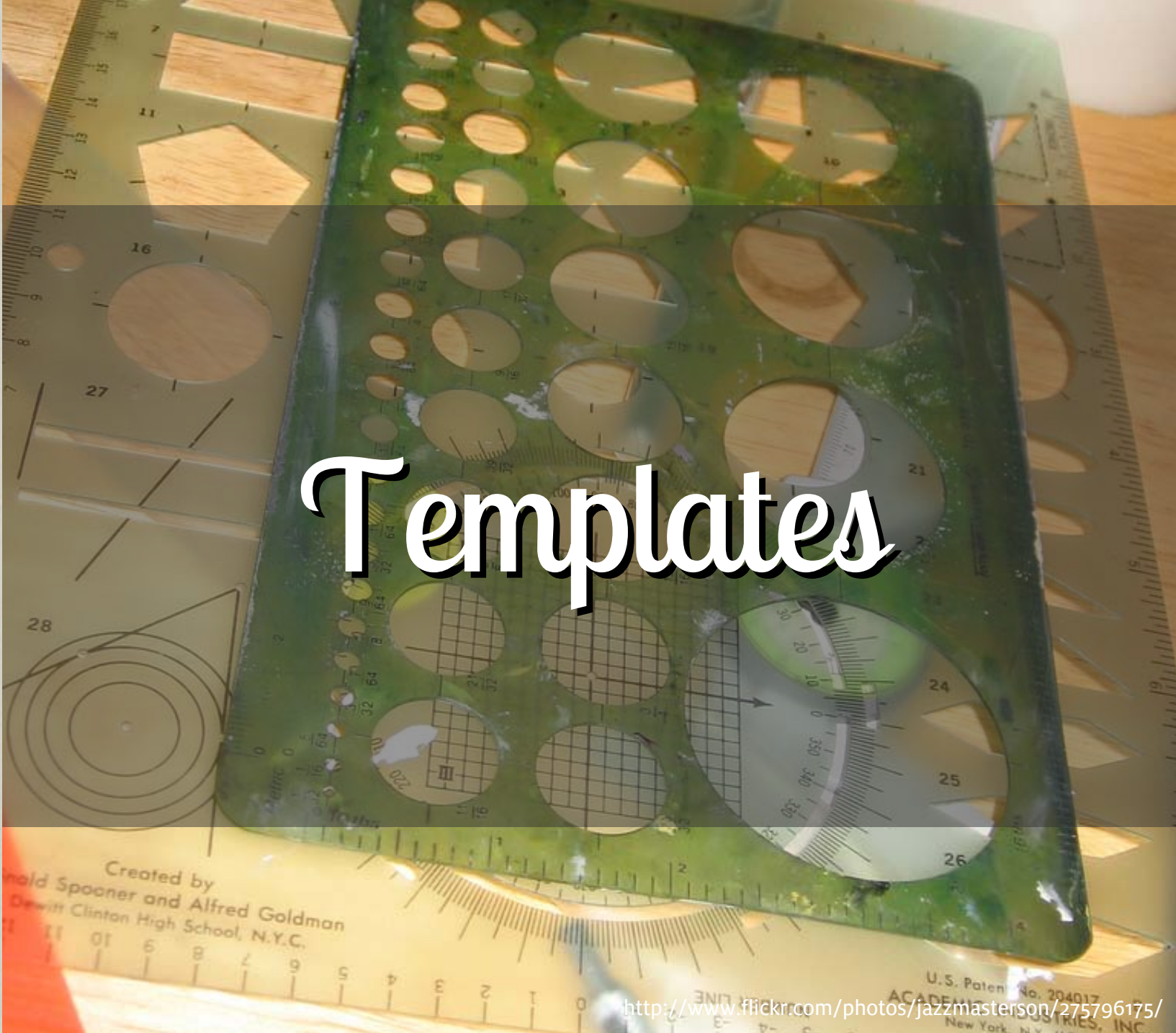
<http://www.alistapart.com/articles/taking-advantage-of-html5-and-css3-with-modernizr/>

<http://webdesignernotebook.com/css/how-to-use-modernizr>

<http://www.ericlightbody.com/2010/modernizr-your-tool-for-html5-and-css3-functionality/>







# Templates

Created by  
Wald Spooner and Alfred Goldman  
Dewitt Clinton High School, N.Y.C.

U.S. Patent No. 204017  
ACADEMIC INDUSTRIES, INC.  
New York, N.Y.

<http://www.flickr.com/photos/jazzmasterson/275796175/>



# HTML5 Boilerplate.com

Now offered in: [DEUTSCH](#)

## HTML5 ★ BOILERPLATE

A ROCK-SOLID DEFAULT FOR HTML5 AWESOME.

HTML5 Boilerplate is the professional badass's base HTML/CSS/JS template for a fast, robust and future-proof site.

After more than two years in iterative development, you get the best of the best practices baked in: cross-browser normalization, performance optimizations, even optional features like cross-domain Ajax and Flash. A starter apache .htaccess config file hooks you the eff up with caching rules and preps your site to serve HTML5 video, use @font-face, and get your gzip zipples on.

Boilerplate is not a framework, nor does it prescribe any philosophy of development, it's just got some tricks to get your project off the ground quickly and right-footed.

### WANT TO DIVE IN?

DOWNLOAD BOILERPLATE V0.9.5 [UPDATED OCT 26TH](#)

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OR

[BOILERPLATE "STRIPPED"](#)

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# CSS3 Properties!



# Webfonts

# @font-face





# @font-face

- Note:
  - Actually part of the CSS2.1 specification.
  - Therefore, the IEs do support it!
- Tips & issues
  - When you decide to use a font as a webfont, you have to be sure that the EULA supports it.
  - One way to avoid that is to use ONLY fonts that are listed as approved webfonts.
- Browser Support
  - IE It 8 require fonts to be in EOT format
  - IE9 now supports WOFF

# @font-face bug: 1E lt 8

@font-face super bullet-proofing

The problem:

@font-face doesn't work, even with the proper normal syntax. What gives?



# @font-face bug: Webkit

@font-face bold and italics “bug”

The problem:

Applying `font-weight:bold` or `font-style: italic` to @font-face'd text doesn't work.



# Solution: IE proof @font-face + faux variations

Example:

```
@font-face {  
font-family: 'MyFontFamily';  
src: url('myfont-webfont.eot?#iefix')  
    format('embedded-opentype'),  
url('myfont-webfont.woff')  
    format('woff'),  
url('myfont-  
webfont.ttf') format('truetype'),  
url('myfont-webfont.svg#svgFontName')  
    format('svg');  
font-weight:normal;  
font-style:normal;  
font-variant:normal;  
}
```





# FontSquirrel.com



Invoicing For Freelancers

Look Professional: Online Invoicing  
Time Tracking & Expense Tracking.



Home Most Downloaded Newly Added @font-face Kits @font-face Generator Help Blog Find Fonts

## @FONT-FACE GENERATOR

**Usage:** Click the "Add Fonts" button, check the agreement and download your fonts. If you need more fine-grain control, choose the **Expert** option.

**Note:** The Generator is processor intensive. Please be kind and don't generate more than a few at a time. Thanks!

### @font-face Kit Generator

[Add Fonts](#)

You currently have no fonts uploaded.

@Font-Face  
Fonts. Finally.  
Purchase & download  
commercial webfonts.

FontSPRING



Buy & download  
1000+ hi-quality

Twitter | RSS Feed

**FILTER**

All Formats

[CFF](#) @font-face

**STYLE**

- Blackletter 14
- Calligraphic 15
- Comic 24
- Dingbat 27
- Display 25
- Grunge 23
- Handdrawn 28
- Initials 3
- Monospaced 26
- Novelty 26
- Pixel 4
- Retro 22
- Sans Serif 128
- Script 25
- Serif 66
- Slab Serif 17
- Stencil 11
- Typewriter 11
- Total Families:** 620

Font Families List

# Webfont Services

Instead of generating the webfonts yourself, you can pay a service where the webfonts are hosted elsewhere, and you link to them and use the fonts on their server.



# Webfont Services



Register

Sign in

[Feature Tour](#) [Pricing](#) [Browse Fonts](#) [Gallery](#) [About](#) [Blog](#) [Support](#)

## THE EASIEST WAY TO USE *Real Fonts* ON YOUR WEBSITE

This will change the way you design websites.

Add a line of code to your pages and choose from hundreds of web fonts. Simple, bulletproof, standards compliant, accessible, and totally legal.

Feature Tour

Try it for Free

Rosewood and Chaparral by [Adobe](#)

### A snap to set up



We've worked hard to make Typekit easy to use. Add and use web fonts the way you want to.

[Try it for free](#)

### Fast and reliable



Your fonts will be served from a robust network built with hundreds of servers worldwide.

[How it works](#)

### All your favorites



We're working with foundries to bring the best possible fonts to the web.

[Browse fonts](#)

# Webfont Services

<http://www.typotheque.com/webfonts>

<http://typekit.com>

<http://fontdeck.com>

<http://kernest.com>

<http://www.ascenderfonts.com/webfonts/>

<http://www.webtype.com>

<http://www.fontslive.com>

<http://www.extensis.com/en/WebINK/>

<http://webfonts.fonts.com>

[http://webfonts.info/wiki/index.php?title=Category:Webfont\\_Services](http://webfonts.info/wiki/index.php?title=Category:Webfont_Services)







# Resources: @font-face

- <http://www.delicious.com/denisejacobs/font-face>



# New Visual Effects in CSS3



# New Visual Effects in CSS3

- border-radius
- rgba color
- box-shadow
- text-shadow
- gradient





# border-radius



cat(s).

oh-hai.com provides a regular dose of exactly what you want: sophisticated LOLcats alongside fabulous, well-designed photos for you and your kitty's modern lifestyle.

## Dose du Jour

### Deese cheezburgers loks funneh

3 May



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# Old-skool: code contortions

... and I'm going to cut off the corners to get my four images:



... and I'm going to cut off the corners to get my four images: 

In the spot where I want the box to show up, I create a container div to hold the box, a div for the top row and a div for the bottom row. Between the top and bottom rows, I add my content. In the top and bottom row divs, I add the left corner image and set the inline style to read `display: none;` This makes the image invisible unless I make it visible through the stylesheet. That way, I can hide the effect from incompatible browsers by not showing them the stylesheet.

```
<div class="roundcont">
  <div class="roundtop">
    
  </div>

  <p>Lorem ipsum dolor sit amet, consectetur adipisicing
elit, sed do eiusmod tempor incididunt ut labore et
dolore magna aliqua. Ut enim ad minim veniam, quis
nostrud exercitation ullamco laboris nisi ut aliquip
ex ea commodo consequat. Duis aute irure dolor in
reprehenderit in voluptate velit esse cillum dolore eu
fugiat nulla pariatur. Excepteur sint occaecat cupidatat
non proident, sunt in culpa qui officia deserunt mollit
anim id est laborum.</p>

  <div class="roundbottom">
    
  </div>
</div>
```

The CSS sets the width and background color of the container object and the color of the

television, or any other medium. To be successful, designers must embrace those differences.

**Best of Newly Digital** There have been dozens of Newly Digital entries from all over the world. Here are some of the best.

**Writing Realistic Job Descriptions** Publish a job listing like this one and you are virtually guaranteeing that you won't get qualified applicants for the position.

**Where do the RSS ad startups fit in?** Yahoo's RSS advertising service could spell trouble for pure-play RSS advertising services unless they adapt their business model.

[More of the best »](#)

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[The Office Matters \(A VC: Venture Capital and Technology\)](#)

[stop\(\); // Hamvertime! \(Hey Norton\)](#)

[What Happened to Yahoo](#)

# border-radius

- Tips & issues
  - Different syntax for mozilla, webkit, and opera browsers
- Browser Support
  - IE It 8 does not support, IE9 does



# border-radius

## Border-radius Syntax Comparison Cheatsheet

syntax components	<code>&lt;prefix&gt; &lt;what1&gt; &lt;what2&gt; &lt;position1&gt; &lt;position2&gt; &lt;value&gt;</code>
webkit syntax	<code>-&lt;prefix&gt;-&lt;what1&gt;-&lt;position1&gt;-&lt;position2&gt;-&lt;what2&gt;: &lt;value&gt;;</code> <code>-webkit-border-top-left-radius: 23px;</code>
mozilla syntax	<code>-&lt;prefix&gt;-&lt;what1&gt;-&lt;what2&gt;-&lt;position1&gt;&lt;position2&gt;: &lt;value&gt;;</code> <code>-webkit-border-radius-topleft: 23px;</code>

Syntax comparison breakdown:

- -moz allows multiple values for each position
- -webkit individual values
- Standard is like mozilla



# border-radius

```
#contentcolumn {  
-moz-border-radius: 20px 20px 0 0;  
-webkit-border-top-left-radius: 20px;  
-webkit-border-top-right-radius: 20px;  
border-radius: 20px 20px 0 0;  
}
```



# Border-radius.com

border radius

a service by jacob bijani

10

110

```
-webkit-border-radius: 110px;  
-moz-border-radius: 110px;  
border-radius: 110px;
```

WebKit  Gecko  CSS3

110

110



# border-radius Resources

<http://www.delicious.com/denisejacobs/border-radius>



# rgba



aarron walter

Designer





# rgba

- Tips & issues
  - More granular control of the color opacity of a particular element
- Browser Support
  - IE It 8 does not support, IE9 does
  - There is an IE filter that will give transparency with a color.



# Cross-browser: rgba

- Place after regular rgb color property to override in modern browsers; older browsers will ignore it
- IE It 8 bug: use the property `background` instead of `background-color` for the regular color

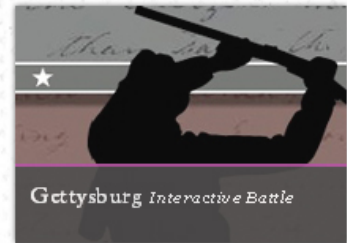
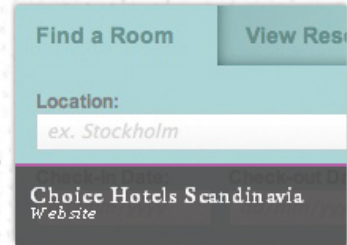
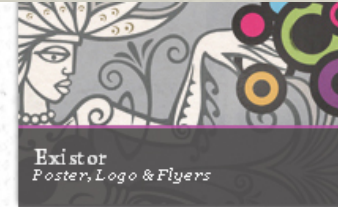


# Full solution: rgba

```
.rgba {
background-color: #ff0000;
  /* fallback color in hexadecimal. */
background-color: transparent; /* transparent
  is key for the filter to work in IE8. best
  done through conditional comments */
background-color: rgba(255, 0, 0, 0.3);
-ms-filter:
  "progid:DXImageTransform.Microsoft.gradient
  (startColorstr=#4CFF0000,
  endColorstr=#4CFF0000)";
/* filter for IE8 */
filter:
  progid:DXImageTransform.Microsoft.gradient(
  startColorstr=#4CFF0000,
  endColorstr=#4CFF0000);
/* filter for older IEs */
}
```



# box-shadow





# box-shadow

- Tips & issues
  - Different syntax for mozilla, webkit, and opera browsers
- Browser Support
  - IE It 8 does not support, IE9 does
  - There is a filter for IE: shadow (actually there are 2: shadow and dropshadow, but shadow is said to be better)



# box-shadow

```
.portfolio {  
-moz-box-shadow: 0 5px 20px  
  rgba(0,0,0,0.6);  
-webkit-box-shadow: 0 5px 20px  
  rgba(0,0,0,0.6);  
box-shadow: 0 5px 20px rgba(0,0,0,0.6);  
}
```



# Full solution: box-shadow

```
.boxshadow {  
-moz-box-shadow: 3px 3px 10px #333;  
-webkit-box-shadow: 3px 3px 10px #333;  
box-shadow: 3px 3px 10px #333;  
  /*standard*/  
-ms-filter:  
  "progid:DXImageTransform.Microsoft.Shadow(Strength=4, Direction=135, Color='#333333')";  
/* For IE 8 */  
filter:  
  progid:DXImageTransform.Microsoft.Shadow(Strength=4, Direction=135, Color='#333333');  
  /* For IE 5.5 - 7 */  
}
```

# Inspiration: box-shadow

## CSS drop-shadows without images

Lifted corners

Curled corners

Perspective

Raised box

Single vertical curve

Vertical curves



# Resources: box-shadow

[http://www.delicious.com/denisejacobs/  
box-shadow](http://www.delicious.com/denisejacobs/box-shadow)



# text-shadow



NTY *Bev*

WHO WE ARE & WHAT WE DO

OUR BRANDS

**CRAFT.  
PASSION.**

BountyBev believes in; what we

# text-shadow

- Tips & issues
  - Can help accentuate text and improve readability and visual importance
- Browser Support
  - IE It 8 does not support, nor does IE9 :/
  - could use the IE filter: shadow



# Full solution: text-shadow

```
.textshadow h2 {
text-shadow:1px 1px 2px
  rgba(48,80,82,0.8);
-ms-filter:
  "progid:DXImageTransform.Microsoft.Shadow(Strength=2, Direction=135,
  Color='#305052')";
/* For IE 8+ */
filter:
  progid:DXImageTransform.Microsoft.Shadow(Strength=2, Direction=135,
  Color='#305052');
/* For IE 5.5 - 7 */
}
```



# Inspiration: text shadow

CLASSIC LETTERPRESS

```
#letterpress h1 { text-shadow: 0px 1px 1px #4d4d4d; color: #222; font: 80px 'LeagueGothicRegular'; }
```

ON CLOUD NINE

```
#cloud9 h1 { text-shadow: 0px 0px 10px rgba(255,255,255,0.6), 0px 0px 30px rgba(255,255,255,0.4), 0px 0px 50px  
rgba(255,255,255,0.3), 0px 0px 180px rgba(255,255,255,0.3); color: rgba(255,255,255,0); font: 80px  
'ChunkFiveRegular'; }
```

# Inspiration: text shadow

*White hot glowing text is the*

**NEW  
LENS  
FLARE**

<http://desandro.com/articles/the-new-lens-flare/>

# Resources: text-shadow

<http://www.delicious.com/denisejacobs/text-shadow>



# gradient



djay

about

work

appearance



## The Mind of Raymond Jay

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<http://raymondjay.com/>



# Old skool: Gradient background



# gradient

- Tips & issues
  - *Very* different syntax for mozilla and webkit browsers previously
  - Newer syntax for current and future browsers
- Browser Support
  - IE does not support, so will still need a fallback image for those browsers



# gradient

```
#mainnav li a {  
background-color: #f7f6f4;  
background-image: url(bg_navitems.gif);  
background-image:  
  -moz-linear-gradient(100% 100% 90deg,  
    #ccc9ba, #ffffff);  
background-image:  
  -webkit-gradient(linear, 0% 0%, 0%  
    100%, from(#ffffff), to(#ccc9ba));  
}
```



# gradient: Full solution

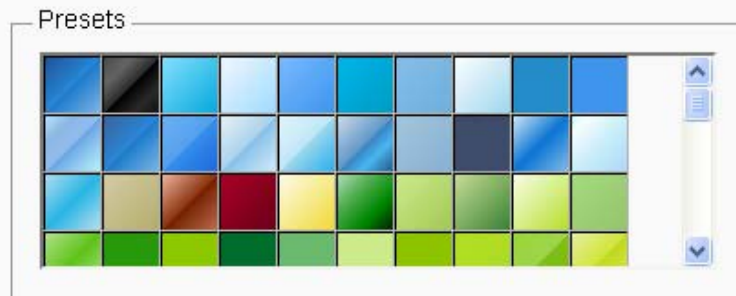
```
.gradient {
color: #fff;
background: #aaaaaa url(gradient_slice.jpg) 0 0
  x-repeat; /*background color matches one of the
  stop colors. The gradient_slice.jpg is 1px wide
  */
background-image: -moz-linear-gradient(top,
  #07407c, #aaaaaa);
background-image: -webkit-gradient(linear, left
  top, left bottom, color-stop(0, #07407c), color-
  stop(1, #aaaaaa));
-ms-filter:
  "progid:DXImageTransform.Microsoft.gradient(sta
  rtColorStr='#07407c', EndColorStr='#aaaaaa')";
  /* IE8+ */
filter:
  progid:DXImageTransform.Microsoft.gradient(star
  tColorStr='#07407c', EndColorStr='#aaaaaa');
  /* IE7- */
}
```



# Colorzilla gradient tool

## Ultimate CSS Gradient Generator

A powerful Photoshop-like CSS gradient editor from [ColorZilla](#)

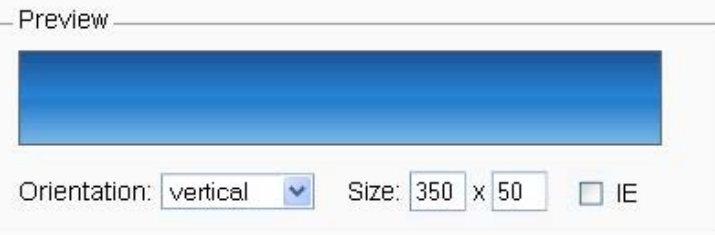


Name:



Stops

Color:  Location:  %



CSS

```
background: #1E5799; /* old browsers */  
  
background: -moz-linear-gradient(top, #1E5799 0%,  
#2989D8 50%, #207cca 51%, #7db9e8 100%); /*  
firefox */  
  
background: -webkit-gradient(linear, left top, left  
bottom, color-stop(0%,#1E5799), color-  
stop(50%,#2989D8), color-stop(51%,#207cca),  
color-stop(100%,#7db9e8)); /* webkit */  
  
filter: progid:DXImageTransform.Microsoft.gradient(  
startColorstr='#1E5799',  
endColorstr='#7db9e8',GradientType=0 ); /* ie */
```

Share

# Inspiration: gradients

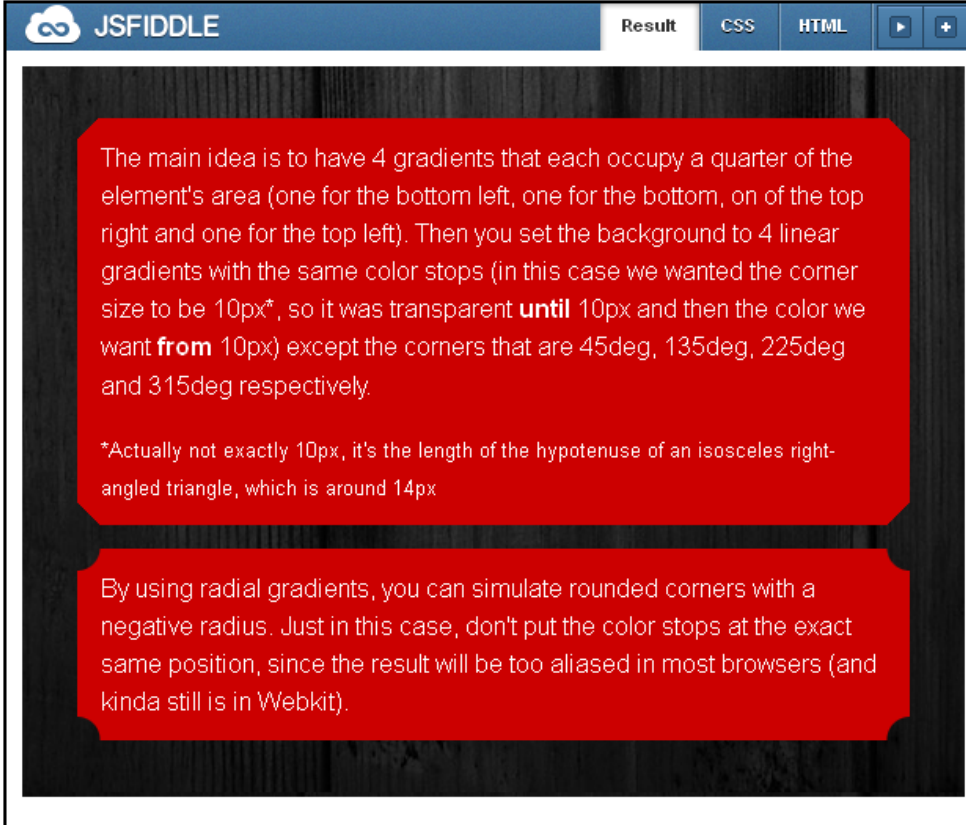
## CSS3 Patterns Gallery

Click on a pattern to expand • Textareas are editable • Browser support • Submit a new one • Github repo • Enjoy!



# Inspiration: gradients

CSS problems can be solved with gradients alone. Read the text in the fiddle to find out how (or just check the code):



The screenshot shows a JSFiddle editor with a dark background. The top bar has 'JSFIDDLE' on the left and 'Result', 'CSS', and 'HTML' tabs on the right. The main area contains a red rounded rectangle with white text explaining the CSS gradient technique. The text describes using four linear gradients to create a beveled effect on a red rectangle. It mentions using negative border-radius values to simulate rounded corners. The text is as follows:

The main idea is to have 4 gradients that each occupy a quarter of the element's area (one for the bottom left, one for the bottom, one for the top right and one for the top left). Then you set the background to 4 linear gradients with the same color stops (in this case we wanted the corner size to be 10px\*, so it was transparent **until** 10px and then the color we want **from** 10px) except the corners that are 45deg, 135deg, 225deg and 315deg respectively.

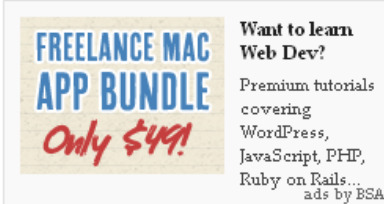
\*Actually not exactly 10px, it's the length of the hypotenuse of an isosceles right-angled triangle, which is around 14px

By using radial gradients, you can simulate rounded corners with a negative radius. Just in this case, don't put the color stops at the exact same position, since the result will be too aliased in most browsers (and kinda still is in Webkit).

It also falls back to a solid color background if CSS gradients are not supported. It will work on Firefox 3.6, latest Webkit and —hopefully— Opera 11.10 (they [announced that gradients support is coming](#)). You could add a `-webkit-gradient()` background too to

- Fork me on Github
- View my designs on Flickr
- Connect with me on LinkedIn
- My traveling on dopplr
- Music I like on last.fm

## Ad packs



The advertisement features a blue and white graphic with the text 'FREELANCE MAC APP BUNDLE' and 'Only \$49!'. To the right, it lists 'Want to learn Web Dev?' and 'Premium tutorials covering WordPress, JavaScript, PHP, Ruby on Rails...' with 'ads by BSA' at the bottom.

via Ad Packs

## Recent comments

-  **Lea Verou** *I'm planning to add SVG generation ;)*  
Convert standard gradient syntax to -webkit-gradient and others · 3 hours ago
-  **Ivanov** *You can add*

# Tools: gradient

<http://www.colorzilla.com/gradient-editor/>

<http://www.westciv.com/tools/gradients/>

<http://css3please.com>

<http://css3generator.com>





# Resources: gradient

<http://www.delicious.com/denisejacobs/gradient>



# Advanced Visual Effects in CSS3



# CSS3 for Advanced Visual Presentation

1. border-image
2. multiple background images
3. background-size
4. multiple text columns





# border-image



The large illustrated header, colour scheme and general style of the site have become largely recognisable and still gain good responses from new visitors, therefore this main styling was something I wanted to keep intact with the newer design.





# border-image

Borders can now be created using images and sections thereof for enhanced visual design.

- Tips & issues
  - Documentation on best use is sparse
  - No adequate fall-back techniques for graceful degradation
  - Vendor prefixes for Mozilla and webkit
- Browser support
  - The IEs do not support



# border-image

```
div.note div.border {  
  -moz-border-image:  
  url(/playground/awesome-overlays/border-  
  image.png) 5 5 5 5 stretch;  
  -webkit-border-image:  
  url(/playground/awesome-overlays/border-  
  image.png) 5 5 5 5 stretch;  
  border-image: url(/playground/awesome-  
  overlays/border-image.png) 5 5 5 5  
  stretch;  
}
```



# Border-image.com

border-image-generator

[toggle style]

## Editor

Image:

Top Offset:

Right Offset:

Bottom Offset:

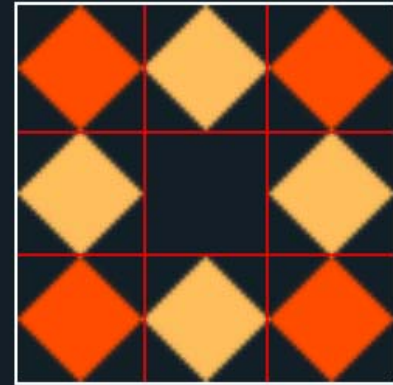
Left Offset:

▸ Border Size

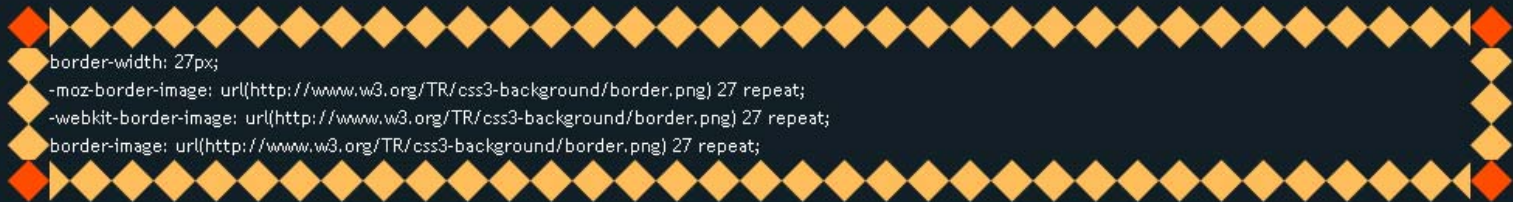
▾ Border Repeat

Vertical Repeat:

Horizontal Repeat:



## Preview



```
border-width: 27px;  
-moz-border-image: url(http://www.w3.org/TR/css3-background/border.png) 27 repeat;  
-webkit-border-image: url(http://www.w3.org/TR/css3-background/border.png) 27 repeat;  
border-image: url(http://www.w3.org/TR/css3-background/border.png) 27 repeat;
```

incaseofstairs

border-image-generator @ github



# Resources: border-image

<http://www.delicious.com/denisejacobs/border-image>





# Multiple backgrounds



## LOST WORLD'S FAIR

BEAUTY OF THE WEB

Internet Explorer 9 now supports WOFF, and the Friends of the Web have joined forces to explore typographic possibilities



visit

EL DODADO



visit

ATLANTIC



THE

<http://www.lostworldsfairs.com>

# Multiple backgrounds

- Tips & issues:
  - The backgrounds are shown according to the order listed, with the first background image listed is the one “on top” and the rest stack underneath it.
  - Can use CSS3 gradients (which are like background images) in conjunction with multiple background images.
- Browser support:
  - IE It 8 does not support, but IE9 does

# Multiple backgrounds

```
body {
background-color: #5ABBCF;
background: #5ABBCF url(../images/bokeh1.png) no-
repeat; /* fallback image */
background: url(../images/bokeh4.png) no-repeat,
url(../images/bokeh3.png) no-repeat 10% 0,
url(../images/bokeh2.png) no-repeat 20% 0,
url(../images/bokeh1.png) no-repeat,
url(../images/blur.png) no-repeat 90% 0,
-moz-linear-gradient(0% 90% 90deg,#5ABBCF,
#95E0EF);
background:
url(../images/bokeh4.png) no-repeat,
url(../images/bokeh3.png) no-repeat 10% 0,
url(../images/bokeh2.png) no-repeat 20% 0,
url(../images/bokeh1.png) no-repeat,
url(../images/blur.png) no-repeat 90% 0,
-webkit-gradient(linear, 0% 0%, 0% 90%,
from(#95E0EF), to(#5ABBCF));
}
```

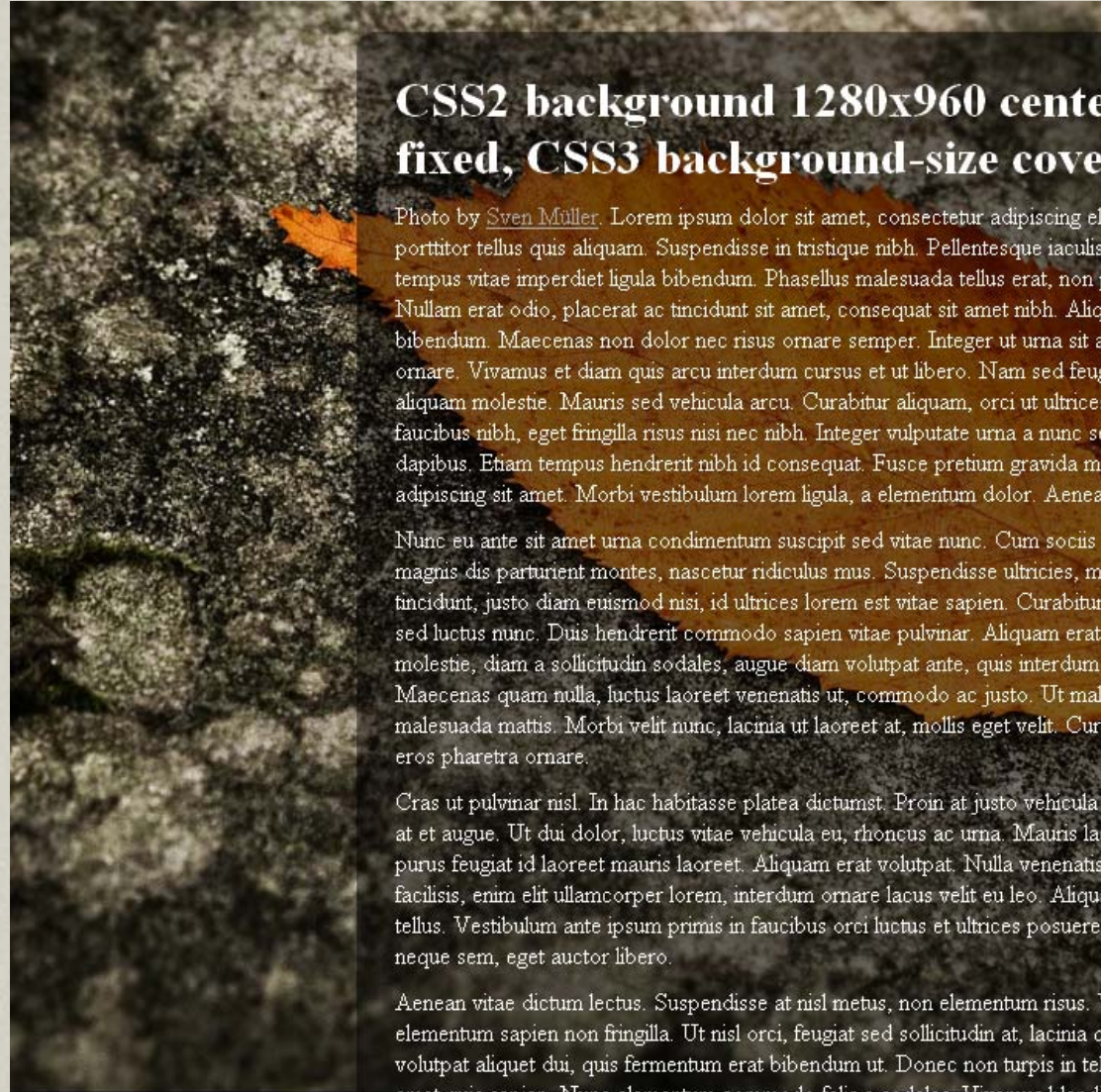
# Resources: multiple backgrounds

<http://www.delicious.com/denisejacobs/multiplebackgrounds>





# background-size



## CSS2 background 1280x960 center fixed, CSS3 background-size cover

Photo by Sven Müller. Lorem ipsum dolor sit amet, consectetur adipiscing elit. Suspendisse in tristique nibh. Pellentesque iaculis tempus vitae imperdiet ligula bibendum. Phasellus malesuada tellus erat, non Nullam erat odio, placerat ac tincidunt sit amet, consequat sit amet nibh. Aliquam bibendum. Maecenas non dolor nec risus ornare semper. Integer ut urna sit amet ornare. Vivamus et diam quis arcu interdum cursus et ut libero. Nam sed feugiat aliquam molestie. Mauris sed vehicula arcu. Curabitur aliquam, orci ut ultrices faucibus nibh, eget fringilla risus nisi nec nibh. Integer vulputate urna a nunc scapibus. Etiam tempus hendrerit nibh id consequat. Fusce pretium gravida magna adipiscing sit amet. Morbi vestibulum lorem ligula, a elementum dolor. Aenean

Nunc eu ante sit amet urna condimentum suscipit sed vitae nunc. Cum sociis magnis dis parturient montes, nascetur ridiculus mus. Suspendisse ultricies, morbi tincidunt, justo diam euismod nisi, id ultrices lorem est vitae sapien. Curabitur sed luctus nunc. Duis hendrerit commodo sapien vitae pulvinar. Aliquam erat molestie, diam a sollicitudin sodales, augue diam volutpat ante, quis interdum Maecenas quam nulla, luctus laoreet venenatis ut, commodo ac justo. Ut malesuada mattis. Morbi velit nunc, lacinia ut laoreet at, mollis eget velit. Cur eros pharetra ornare.

Cras ut pulvinar nisl. In hac habitasse platea dictumst. Proin at justo vehicula at et augue. Ut dui dolor, luctus vitae vehicula eu, rhoncus ac urna. Mauris la purus feugiat id laoreet mauris laoreet. Aliquam erat volutpat. Nulla venenatis facilisis, enim elit ullamcorper lorem, interdum ornare lacus velit eu leo. Aliquam tellus. Vestibulum ante ipsum primis in faucibus orci luctus et ultrices posuere neque sem, eget auctor libero.

Aenean vitae dictum lectus. Suspendisse at nisl metus, non elementum risus. Vestibulum elementum sapien non fringilla. Ut nisl orci, feugiat sed sollicitudin at, lacinia odio volutpat aliquet dui, quis fermentum erat bibendum ut. Donec non turpis in tellus amet quis sapien. Nunc elementum nec eros de felis a sedales. Vivamus bland

# background-size

You can set the size of a background image and make sure it covers the entire background of a page, no matter what the size.

- Tips & Issues:
  - Vendor prefixes for mozilla, webkit, and opera
- Browser support:
  - IE It 8 does not support, but IE9 does





# background-size

## Example:

```
body { background: #000
  url(myBackground_1280x960.jpg) center
  center fixed no-repeat;
  -moz-background-size: cover;
  -webkit-background-size: cover;
  -o-background-size: cover;
  background-size: cover;
}
```



# Inspiration: background-size



Login | Signup

**launchrock**

Setup a viral "Launching Soon" page  
in minutes.

*Launching soon. Enter your email to join our invite list:*

email@address.com

GO

powered by **launchrock**

[Learn More](#) ▼



# Resources: background-size

- <http://www.delicious.com/denisejacobs/backgroundsize>
- <http://www.alistapart.com/articles/supersize-that-background-please/>
- <http://www.w3.org/TR/css3-background/#the-background-size>



# Multiple text columns



**yaili.** HANDMADE WEB DESIGN

Hi. My name is Inayaili de León and I'm a web designer. That means I make websites both beautiful and easy to use—I can make a lot of an orphous content look clean and easy to understand.

I also take a lot of pleasure in coding mine and other people's designs to make them work online.

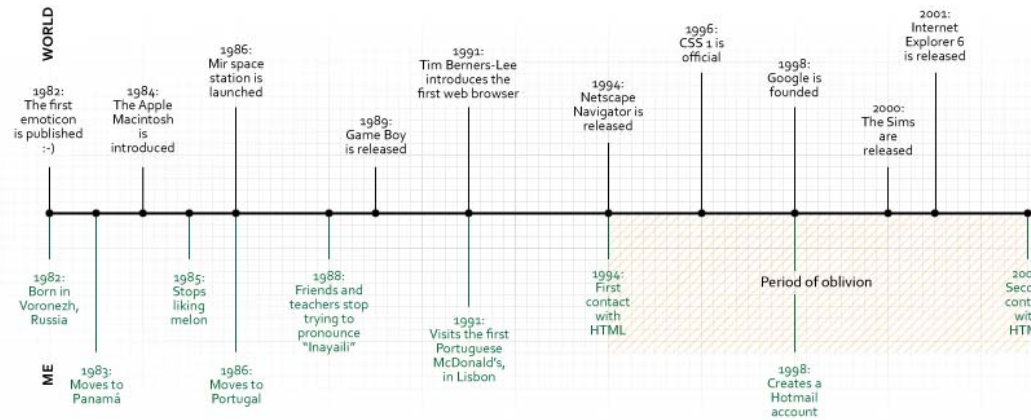
I live and work in London—the most beautiful city in the world—, at [Canonical](#) (the company that delivers Ubuntu).

I'm Portuguese; I speak Portuguese, Spanish, English and try really hard to understand French and Italian.

I like cats. And chocolate.

Tweeted, about 1 hour ago: "Jack Osborne is great. Let's get him some shoes." Follow me on Twitter →

## A brief visual biography



# Multiple text columns

You can have one div containing a number of paragraphs which can be displayed in columns, with no float or height manipulations.

- Tips & Issues:
  - Some of the properties are not widely supported, and many of the related (like dividers, breakers, etc.) haven't been implemented or aren't supported yet either.



# Multiple text columns

## Example:

```
div.three-col {  
-webkit-column-count: 3;  
-webkit-column-gap: 15px;  
-moz-column-count: 3;  
-moz-column-gap: 15px;  
column-count: 3;  
column-gap: 15px;  
}
```



# Resources: multiple columns

<http://www.delicious.com/denisejacobs/multiplecolumns>



# 2d Transformations with CSS3



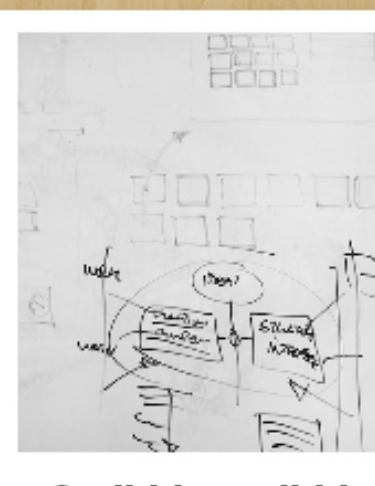
# transform (2d)



**Roeland!**



**Discussion**





# transform

- Tips & issues
  - Mozilla, Webkit, and Opera vendor prefixes; no standard yet.
- Browser Support
  - IE It 8 does not support, but IE9 does





# 2D Transformations

Different kinds of transforms:

- rotate
- scale
- skew
- translate
- matrix



# transform/rotate: full solution

```
.rotate {  
-moz-transform: rotate(-5deg);  
-webkit-transform: rotate(-5deg);  
-o-transform: rotate(-5deg);  
transform: rotate(-5deg);  
filter:  
  progid:DXImageTransform.Microsoft.Matrix(sizing  
  Method='auto expand', M11=0.9961946980917455,  
  M12=0.08715574274765817, M21=-  
  0.08715574274765817, M22=0.9961946980917455);  
-ms-filter:  
  "progid:DXImageTransform.Microsoft.Matrix(M11=0  
  .9961946980917455, M12=0.08715574274765817,  
  M21=-0.08715574274765817,  
  M22=0.9961946980917455, sizingMethod='auto  
  expand' )";  
zoom: 1;  
}
```

# transform: multiple

You can apply multiple transform properties to one element.

## Example:

```
.enlargen:hover {  
-webkit-transform: translate(-50%, -50%) scale(2)  
  rotate(0);  
-moz-transform: translate(-50%, -50%) scale(2)  
  rotate(0);  
-o-transform: translate(-50%, -50%) scale(2)  
  rotate(0);  
transform: translate(-50%, -50%) scale(2)  
  rotate(0);  
}
```



# Resources: 2D transforms

[http://www.delicious.com/denisejacobs/  
transform](http://www.delicious.com/denisejacobs/transform)





# Animation with CSS3



# Animation

1. transitions
2. animation (the webkits only)

A Tip:

Be subtle – it's more effective



# Old skool: Flash



macromedia®  
**FLASH™** PLAYER

# transition





# transition

You can create subtle transitions between hover states on elements. The transitions smooth out visual jumps.

- Tips & issues
  - Be sure to put the transition effect on the correct element



# transition

Example:

```
#id_of_element {  
-webkit-transition: all 1s ease-in-out;  
-moz-transition: all 1s ease-in-out;  
-o-transition: all 1s ease-in-out;  
transition: all 1s ease-in-out;  
}
```



# Animation



smod  
m  
a  
uptate  
cat  
id est  
smod  
m  
a  
tate velit  
id est  
eu fugiat  
pteur sint

<b>Furniture</b>	185 items	
<b>Fashion</b>	4,729 items	
<b>Pets</b>	4 items	

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Lorem ipsum dolor sit amet, consectetur  
adipiscing elit, sed do eiusmod tempor

# Animation

You can create subtle animations in the browser!

- Tips & issues:
  - Plan out the animation sequence ahead of time
  - Be aware of style order in the CSS





# Animation

```
div {  
  animation-name: diagonal-slide;  
  animation-duration: 5s;  
  animation-iteration-count: 10;  
}
```

```
@keyframes diagonal-slide {  
  from { left: 0; top: 0; }  
  to { left: 100px; top: 100px; }  
}
```



# Resources: Animation

<http://www.delicious.com/denisejacobs/animation>





# CSS3 Selectors



# Getting Advanced

Advanced selectors are a good way to specifically target styles for modern browsers.

The right selector will help you achieve targeting nirvana, so it's important to know which selectors you can use now.





# CSS3 Selectors

Advanced selectors give us the power to target elements that are not part of the document tree and/or those that are generated dynamically.

- Tips & issues
  - There are a lot of options to choose from!
  - Great to use for progressive enhancement
  - Need to be aware of changes to specificity

# CSS3 Selector Specification

- General sibling

E ~ F

- Attribute substrings

– a[attribute^="value"]

– a[attribute\$="value"]

– a[attribute\*="value"]

- Pseudo-elements

*no new ones, all pseudo-elements in CSS3*

*indicated with ::*

- Pseudo-classes

– Target

- :target

– Negation

- :not(s)

– State

- :enabled

- :disabled

- :checked

- :indeterminate



# CSS3 Selectors

## – Structural

- :nth-child(n)
- :nth-last-child(n)
- :nth-of-type(n)
- :nth-last-of-type(n)
- :last-child
- :first-of-type
- :last-of-type
- :only-child
- :only-of-type
- :empty
- :root



# Uses for advanced selectors

- Great for progressive enhancement
- Styling first, last or x-number of elements





## The bad old days ...

# Old skool: zebra striping

Before we begin covering how to use the new `select()`, let's revisit the old way of doing things. First, we would have to add a class attribute to every other table row:

```
<table>
  <tr valign="top" class="odd">
    <td>Salmon</td>
    <td>Omega-3's help the brain develop properly, reduce the risk of Alzheimer</td>
  </tr>
  <tr valign="top">
    <td>Spinach</td>
    <td>Great source of folate and lutein. Prevents birth defects, heart disease</td>
  </tr>
  <tr valign="top" class="odd">
    <td>Sweet Potatoes</td>
    <td>Beta carotene protects your skin from sun damage.</td>
  </tr>
</table>
```

Luckily, our table is fairly small, so this doesn't require too much work. But you could imagine how tedious this process would be if our table was dozens of rows long! We would then add a CSS rule that targeted those rows:

```
tr.odd {
  background-color: #99ff99;
```

# With structural pseudo-elements

The keywords `odd` and `even` can be used to match child elements whose index is odd or even. The index of an element's first child is 1, so this rule will match any `p` element that is the first, third, fifth, and so on, child of its parent element.

An **argument**, `can` is placed within the parentheses, as a number, a keyword, or a formula.

A **formula** `an + b` can be used to create more complex repeating patterns. In the formula, `a` represents a cycle size, `n` is a counter starting at 0, and `b` represents an offset value. All values are integers.

# Nth child selector tester

## CSS3 structural pseudo-class selector tester

Helps you understand how the `nth-child`, `nth-last-child`, `nth-of-type` and `nth-last-of-type` CSS3 selectors work. Uses the native browser algorithm, so you're out of luck if you're on IE (but if you're on IE, you have more serious issues to sort out anyway)

\*  `:nth-child`   $( 3n+2 )$

dt (1)
dt (2)
dd (3)
dd (4)
dt (5)
dd (6)
dt (7)
dd (8)
dd (9)
dd (10)
dd (11)
dd (12)

# CSS3 Selector Support

## CSS3 Selectors

	WIN									MAC				
														
	FIREFOX	SAFARI	IE		CHROME	OPERA	FIREFOX	SAFARI	OPERA					
	3.6	4	5	6	7	8	9	10	10	11.1	4	5	11.1	
Begins with	✓	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	98%
Ends with	✓	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	98%
Matches	✓	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓	✓	98%
Root	✓	✓	✓	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	87%
nth-child	✓	✓	✓	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	86%
nth-last-child	✓	✓	✓	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	86%
nth-of-type	✓	✓	✓	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	86%
nth-last-of-type	✓	✓	✓	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	86%
last-child	✓	✓	✓	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	87%
first-of-type	✓	✓	✓	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	86%
last-of-type	✓	✓	✓	✗	✗	✗	✓	✓	✓	✓	✓	✓	✓	86%



# Tools: CSS3 Selectors

- <http://www.quirksmode.org/compatibility.html>
- <http://www.evotech.net/blog/2009/02/css-browser-support/>
- <http://www.findmebyip.com/litmus>



# CSS3 Selector Helper Script

selectivizr



## CSS3 selectors for IE

selectivizr is a JavaScript utility that emulates CSS3 pseudo-classes and attribute selectors in Internet Explorer 6-8. Simply include the script in your pages and selectivizr will do the rest.



**DOWNLOAD**  
v1.0.0 - (4k .ZIP archive)



Enhancing IE's selector engine

Selectivizr adds support for 18 CSS3

```
2 <html>
3 <head>
4 <title>Selectivizr - CSS3 pseudo-class
5 <meta charset="utf-8">
6 <meta name="keywords" content="css3, cs
7 <meta name="description" content="selec
8 <link href="css/screen.css" rel="styles
9 <!--[if lt IE 9]>
10 <script src="js/html5.js"></script>
11 <script src="js/nwmatcher-1.2.3b.js">
12 <script src="js/selectivizr.js"></scr
```

JavaScript-knowledge: none

Selectivizr works automatically so you



Works with existing tools

Selectivizr requires a JavaScript library to

# Resources: CSS3 Selectors

- <http://www.delicious.com/denisejacobs/selectors+css3>
- <http://inspectelement.com/tutorials/a-look-at-some-of-the-new-selectors-introduced-in-css3/>
- <http://24ways.org/2009/cleaner-code-with-css3-selectors>



# Tools: CSS3 Selectors

- <http://www.quirksmode.org/compatibility.html>
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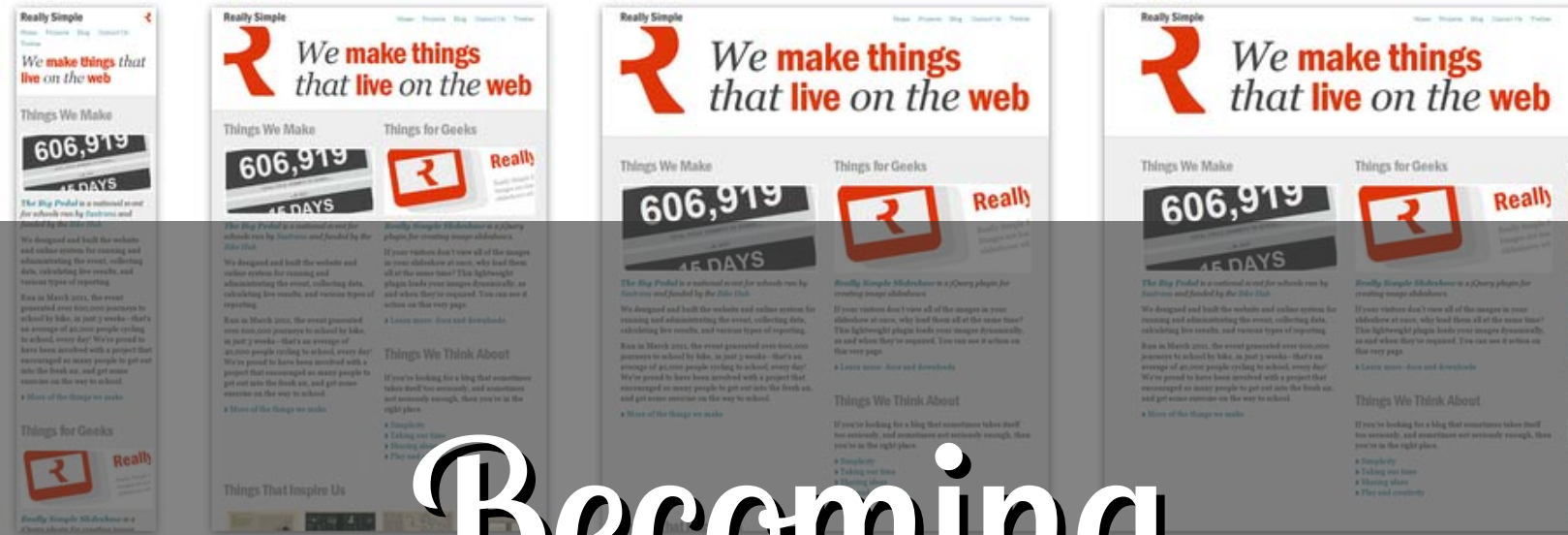




# Resources: CSS3 Selectors

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- <http://inspectelement.com/tutorials/a-look-at-some-of-the-new-selectors-introduced-in-css3/>
- <http://24ways.org/2009/cleaner-code-with-css3-selectors>





# Becoming Responsive





# Responsive Devices?



# Responsive Devices!





# Brain shift



# Mobile first

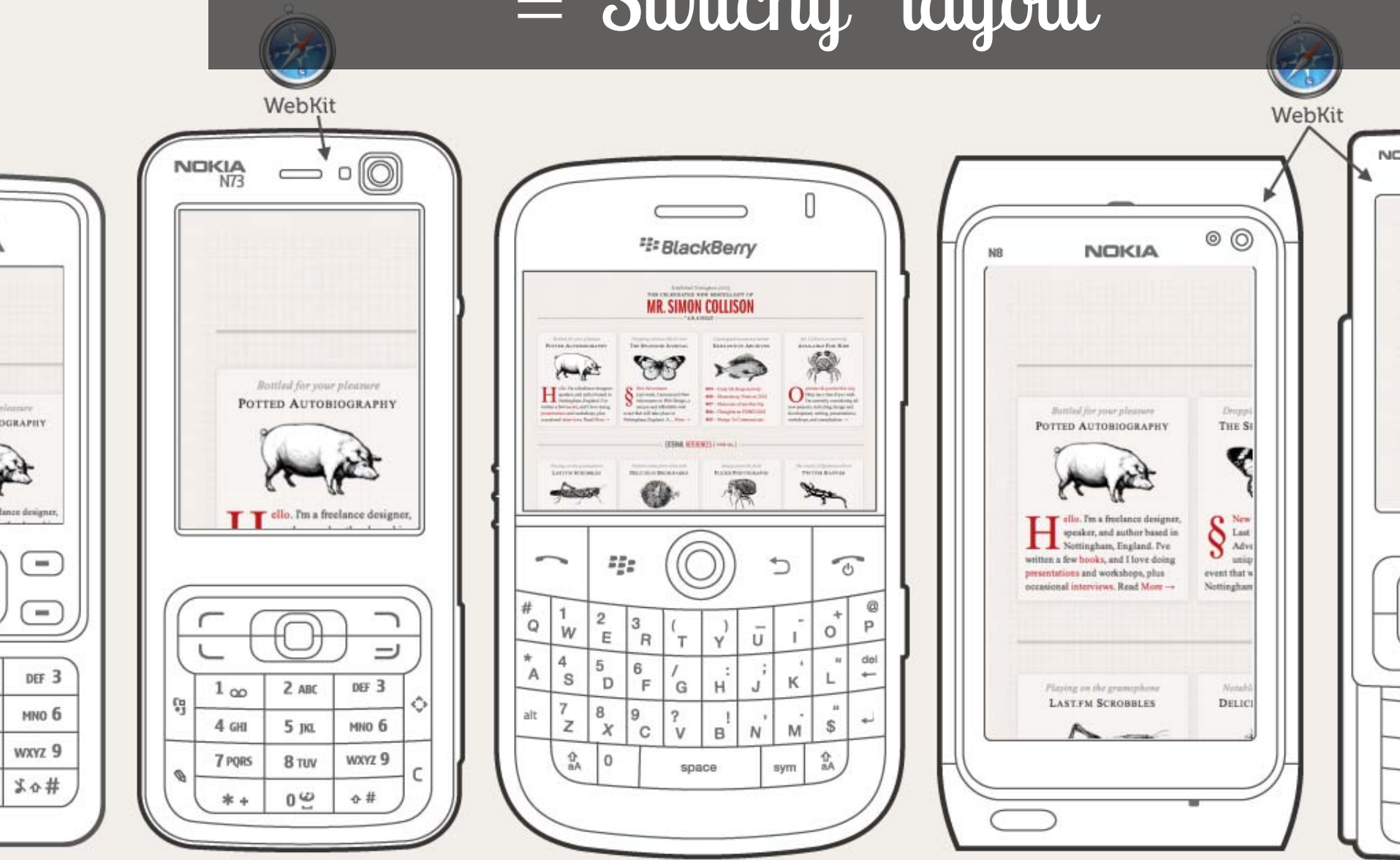


# Avoid this

desktop stylesheet +  
media queries  
= mobile site



# = "Switchy" layout



approximations based on actual device testing - font rendering **will** vary...



# Instead this

mobile stylesheet +  
media queries  
= desktop site



# = Truly responsive



# What's the difference?

## Graceful Degradation



**Build for greatest,  
downsize for  
lesser beings.**

## Progressive Enhancement



**Play safe. Build for  
those lesser beings,  
scale up after.**





# 3 components

FLOOR

RAG



# 1) Flexible grid

## 12 Column Grid

940

60

860

140

780

220

700

300

620

380

540

460

460

220

220

60

380

60

380

220

220

# Flexible & Fluid

- Size everything in ems or percentages
- Flexible: Ems for everything
- Fluid: Percentages for width, ems for height



# Various grids

- <http://delicious.com/denisejacobs/grid>



## 2) Flexible images





# Flexible Images: Foreground

```
img {width: 100%;  
max-width: 100%;}
```



# Responsive foreground images

## Responsive Images Test Page

In supported browsers, the following image will load either small or large version depending on screen resolution, making a single 1kb request before requesting the appropriate size.



Photo credit (CC): Cia de Foto [Flickr Creative Commons](#)

# Flexible Images: Background

Use background-position to selectively crop your backgrounds





# 3) @media queries

## Media Queries

W3C Candidate Recommendation 27 July 2010

**This Version:**

<http://www.w3.org/TR/2010/CR-css3-mediaqueries-20100727/>

**Latest Version:**

<http://www.w3.org/TR/css3-mediaqueries/>

**Previous Version:**

<http://www.w3.org/TR/2009/CR-css3-mediaqueries-20090915/>

**Editors:**

[Håkon Wium Lie](mailto:howcome@opera.com) <howcome@opera.com>

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[Anne van Kesteren](mailto:annevk@opera.com) <annevk@opera.com>

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---

## Abstract

HTML4 and CSS2 currently support media-dependent style sheets tailored for different *media types*. For example, a document may use sans-serif fonts when displayed on a screen and serif fonts when printed. 'screen' and 'print' are two media types that have been defined. *Media queries* extend the functionality of media types by allowing more precise labeling of style sheets.

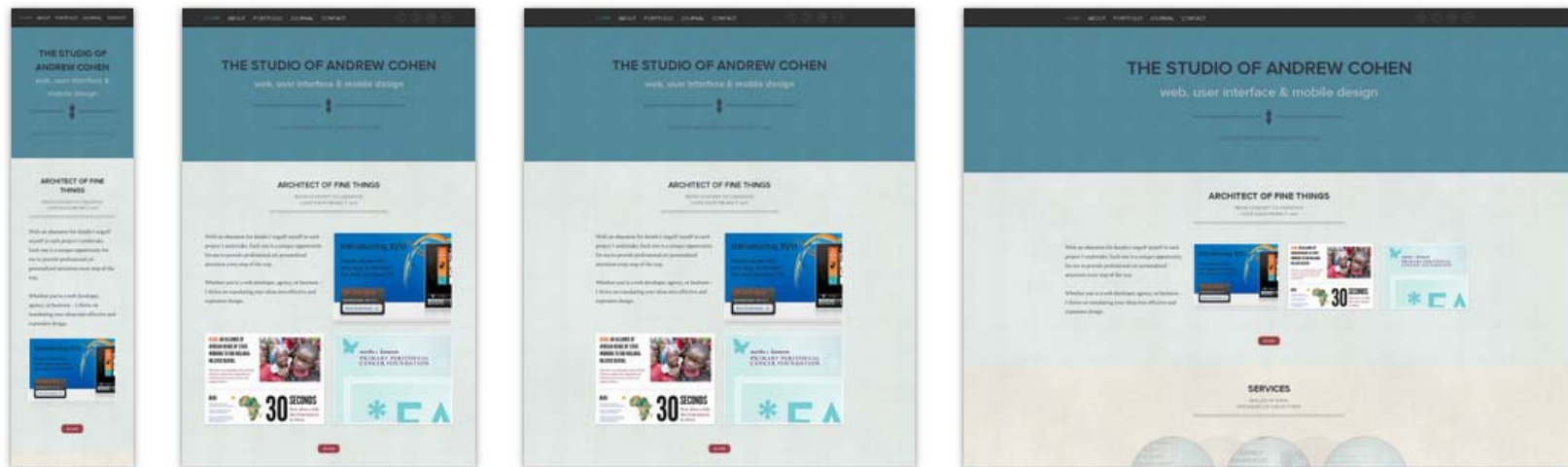
A media query consists of a media type and zero or more expressions that check for the conditions of particular *media features*. Among the media features that can be used in media queries are 'width', 'height', and 'color'. By using media queries, presentations can be tailored to a specific range of output devices without changing the content itself.

## Status of this document



# @media queries

@media queries are now being used as a basis for responsive web design: web interfaces that change with the size (and orientation) of the device.



# How do they work?

Through media queries, the browser is served different styles or stylesheets based on the dimensions and the device.

The `@media` construct allows style sheet rules for various media in the same style sheet.

An `@media` rule specifies the target media types (separated by commas) of a set of statements (delimited by curly braces).

# Simple @media rule examples

```
@media print {  
    body { font-size: 10pt }  
}
```

```
@media screen {  
    body { font-size: 13px }  
}
```

```
@media screen, print {  
    body { line-height: 1.2 }  
}
```



# @media queries

## Example:

```
/* Smartphones (portrait and landscape) -  
----- */  
@media only screen  
and (min-device-width : 320px)  
and (max-device-width : 480px)  
{  
/* Styles */  
}
```





# @media queries: Browser compatibility

## Yep

- IE 9
- Opera 9.5+
- Opera Mobile
- Safari 3+
- Firefox 3.5+
- Chrome

## Nope

- IE 8, 7, 6
- Safari 2
- Firefox 1, 2



# CSS3-mediaqueries.js



## css3-mediaqueries-js

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

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firefox, internet, explorer,  
media, query, queries

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[css3-mediaqueries.js](#)

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**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 [CSS3 Media Queries](#). 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!

# Responsive design inspiration

# Media Queries

a collection of responsive web designs

submit about contact

## The Highway Hurricanes



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### THE HIGHWAY HURRICANES

— a cricket team from cardiff

The Caten vs the Planning Pythons



**LATEST MATCH — THE PLANNING PYTHONS**

John HR, wicket — 0/0 (Overseas)  
The Caten won at Blackheath to take us over against the Planning Pythons. They report as likely to face a lot of key overseas batsmen panned across the world and I expect to get the windmill to rub out on us.

**2011 STATS**

Wicket — 0  
Goal — 0  
Points — 0

**THE BARBARIANS**

John HR, wicket — 0/0 (Overseas)  
A family evening evening at Cardiff Fields for the 2011 PFL. About 1000 fans with the Sea Base. Not what I had in mind for the weekend. However, the match was a success. The Caten vs the Planning Pythons. They report as likely to face a lot of key overseas batsmen panned across the world and I expect to get the windmill to rub out on us.

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**ECLIPSE FIRST**

John HR, wicket — 0/0 (Overseas)  
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**2011 STATS**

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Goal — 0  
Points — 0

Aaron Shekey



# Resources: @media queries

- <http://www.delicious.com/denisejacobs/media-queries>







FLOOR

# 5 Steps



# 1) Plan the design(s)



PORTFOLIO  
What I've Done

WRITING  
Musings, etc.

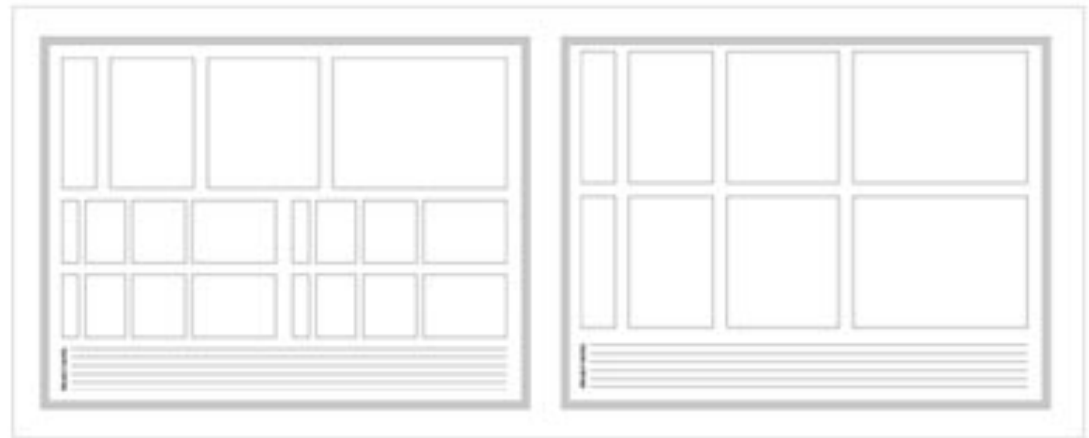
BOOKSHELF  
The Personal Stacks

ARCHJOURNAL  
NCSU Chronicle

CONTACT  
Correspondence Info

## RESPONSIVE WEB DESIGN SKETCH SHEETS

During [Denise Jacobs'](#) workshop on CSS3 at [ConvergeSE 2011](#), I was inspired to make these responsive web design sketch sheets to help think through layouts for various devices. Thought I'd share. *Click on the image below to download the .zip.*



POSTED IN [SUMMER BEFORE](#)

<http://jeremypalford.com/arch-journal/responsive-web-design-sketch-sheets>

# Plan the design(s)

- Need to plan out 3-4 iterations of a page design for each resolution/device instead of just one



# Calculate





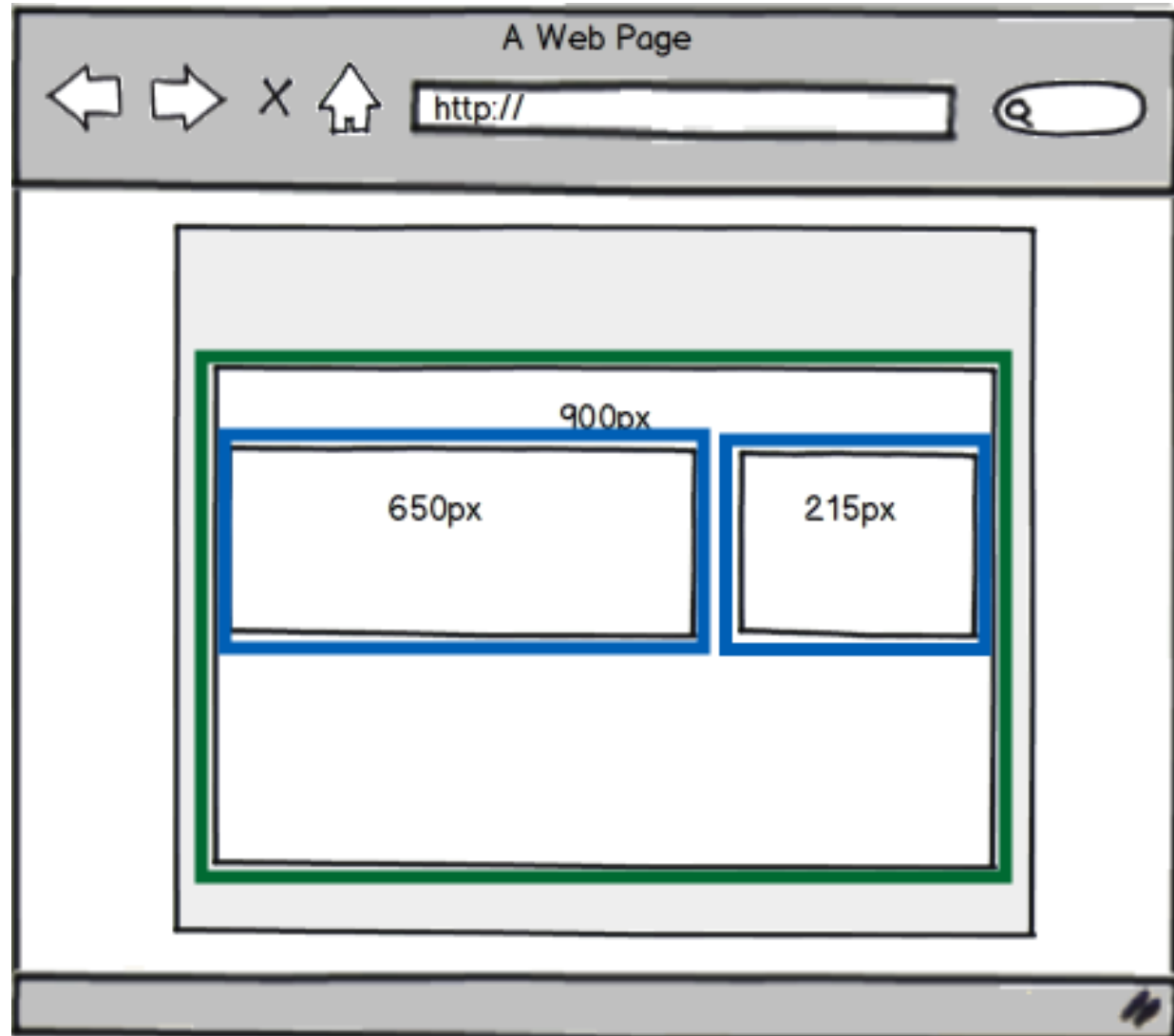
# Calculate

- You need to know dimensions of page elements to be able to calculate proportional relationship of size and margins
- The Golden Formula:

$$\text{target} \div \text{context} = \text{result}$$

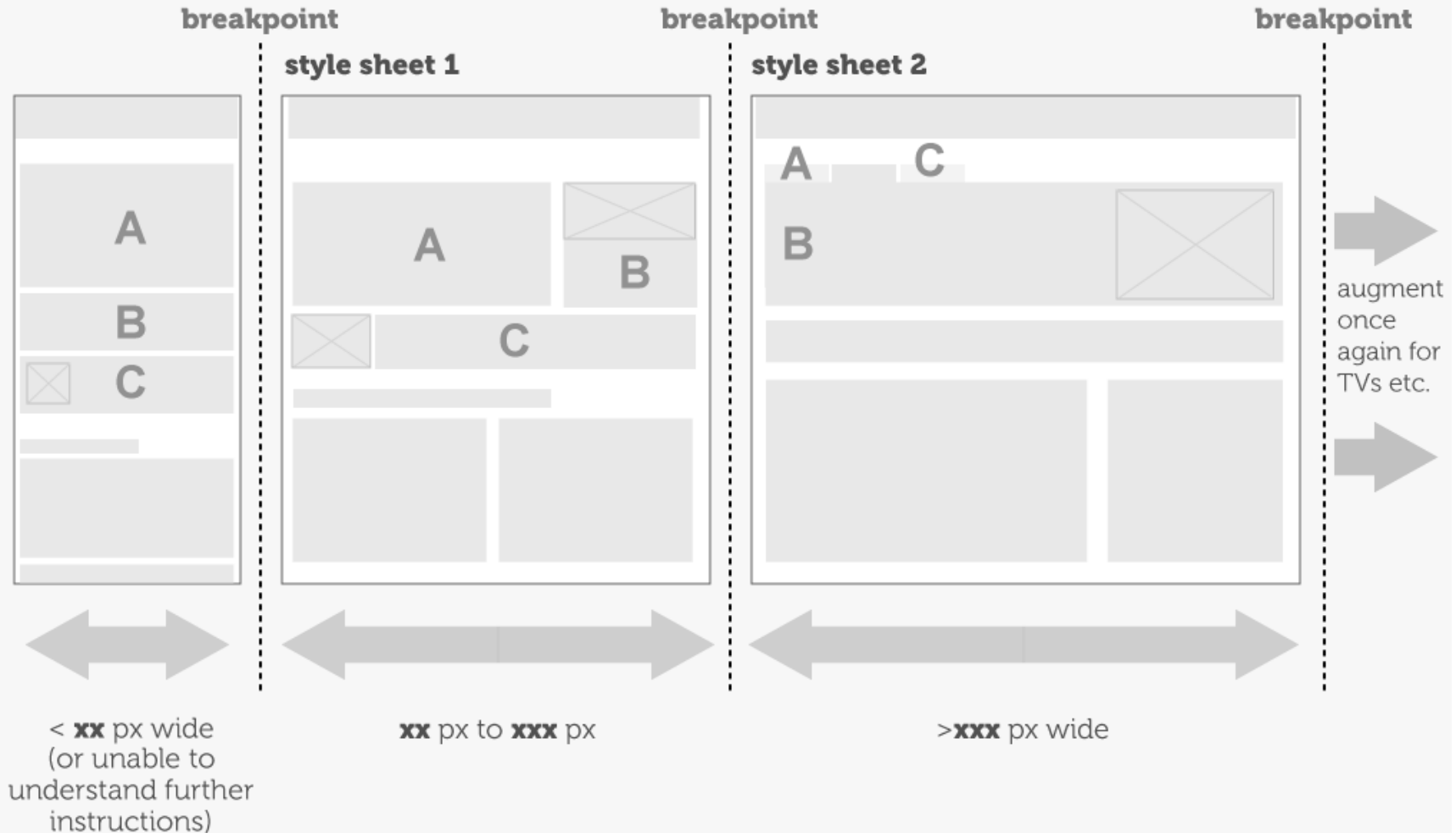


# Target, context, and results



# 3) Determine the breaking points

each style sheet **augments** the others



# Some standard sizes to shoot for

- 320 px: smart phones in portrait mode
- 480 px: smart phones in landscape mode
- 600 px: smaller tablets like the Kindle (600 x 800) or Nook (600 x 1024)
- 768 px: tablet in portrait
- 1024 px: tablet in landscape and netbooks
- 1200 px: low end for widescreen displays
- 1600 px: widescreen displays



# 4) Add media queries

The screenshot shows a web browser displaying a bakery website. The page content includes:

- Text: *sagittis tempus lacus enim ac dui. Donec non enim in turpis pulvinar facilisis. Ut felis.*
- Section: **Candies** with an image of chocolates.
- Section: **Pastries** with an image of a donut.
- Section: **Desserts** with an image of a cake.
- Section: **NEWS** with placeholder text: *tratesuada rames ac turpis egestas.*
- Text: *>Lorem ipsum dolor sit amet. consectetur adipiscing elit*
- Text: *Aliquam tincidunt mauris eu risus*
- Text: *Vestibulum auctor dapibus neque*

The browser's developer tools are open, showing the following CSS code in the Script pane:

```
344
345 @media screen and (max-width: 550px) {
346   #form-search input[type=text] { width: 100px; }
347   #content-main, #content-secondary {
348     float: none;
349     width: 100%;
350   }
351   h1 { font-size: 225%; }
352   h1 + p { font-size: 100%; }
353   .feature { padding-left: 70px; }
354   #feature-candy { background-image: url(images/icon_candy_64-trans.png); }
355   #feature-pastry { background-image: url(images/icon_pastry_64-trans.png); }
356   #feature-dessert { background-image: url(images/icon_dessert_64-trans.png); }
357   #form-newsletter * { display: inline; }
358   #form-newsletter input[type=text] { width: auto; }
359   #about, #credits {
360     float: none;
361     width: 100%;
362   }
```

# Hardboiled's @media queries: Smartphone

```
/* Smartphones (portrait and landscape) ----- */
@media only screen
and (min-device-width : 320px)
and (max-device-width : 480px) {
/* Styles */
}

/* Smartphones (landscape) ----- */
@media only screen
and (min-width : 321px) {
/* Styles */
}

/* Smartphones (portrait) ----- */
@media only screen
and (max-width : 320px) {
/* Styles */
}
```

# Hardboiled's @media queries: iPad

```
/* iPads (portrait and landscape) ----- */
@media only screen
and (min-device-width : 768px)
and (max-device-width : 1024px) {
/* Styles */
}

/* iPads (landscape) ----- */
@media only screen
and (min-device-width : 768px)
and (max-device-width : 1024px)
and (orientation : landscape) {
/* Styles */
}

/* iPads (portrait) ----- */
@media only screen
and (min-device-width : 768px)
and (max-device-width : 1024px)
and (orientation : portrait) {
/* Styles */
}
```



# Hardboiled's @media queries: Other

```
/* Desktops and laptops ----- */
@media only screen
and (min-width : 1224px) {
/* Styles */
}

/* Large screens ----- */
@media only screen
and (min-width : 1824px) {
/* Styles */
}

/* iPhone 4 ----- */
@media
only screen and (-webkit-min-device-pixel-ratio : 1.5),
only screen and (min-device-pixel-ratio : 1.5) {
/* Styles */
}
```



# 5) Test & Tweak



# Testing, testing, 1-2-3

- Get the design to code and prototype as soon as possible
- Test breaking points
- Make adjustments



# Voilà!





Simply Responsive

CSS3

The End?



Today



Put yourself into



Rehab

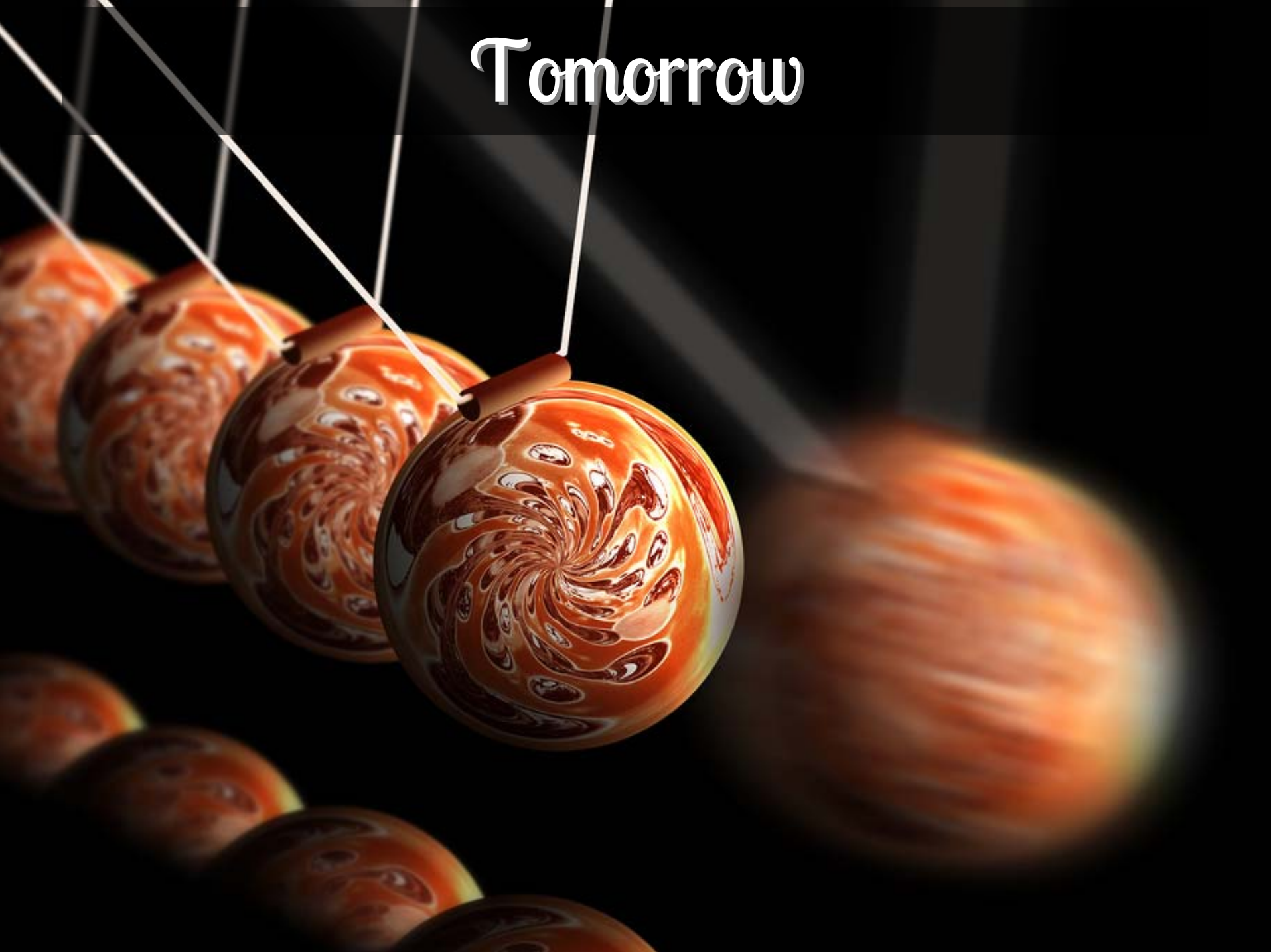
0299-015-009  
1-800-570-6620

FOR NUTRITION INFORMATION CALL

BENZOATE (PRESERVATIVE)

TWIST

Tomorrow



# This is just the beginning!

My Delicious links are HUGE compendia of all things related to CSS3, updated as I find new articles, resources and tools!

<http://delicious.com/denisejacobs/css3>

<http://delicious.com/denisejacobs/css3training>







# Article-lations



By Denise Jacobs on April 18, 2011 | 8 comments



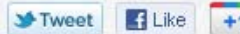
Denise Jacobs reveals her top tips on how to use the most exciting CSS3 properties and provide fallbacks for older browsers

This article originally appeared in issue 210 of .net magazine - the world's best-selling magazine for web designers and developers.

While the following list does not include all of the great new properties in the CSS3 specification, this selection of the top 10 will give you a great start with your front-end projects. If you're using a browser that does not support any of the CSS3 font-face properties, neither IE6, 7 nor 8 (from here on referred to as "the older IEs") support any of the CSS3 properties. IE9 supports several properties and will be indicated.

<http://www.netmagazine.com/features/top-10-css3-techniques>

By Denise Jacobs on August 23, 2011 | 7 comments



To get started with building a responsive site, having a strong toolkit makes a difference. Here Denise Jacobs rounds up 21 great tools to aid the process of making your sites responsive

As introduced/coined by Ethan Marcotte in both his article "Responsive Web Design" and his recently released book, one needs three elements to make a site responsive:

- 1. A flexible/fluid grid

<http://www.netmagazine.com/features/21-top-tools-responsive-web-design>

There are plenty of other great articles that cover motives, concepts, and techniques for responsive design.



# A library of resources

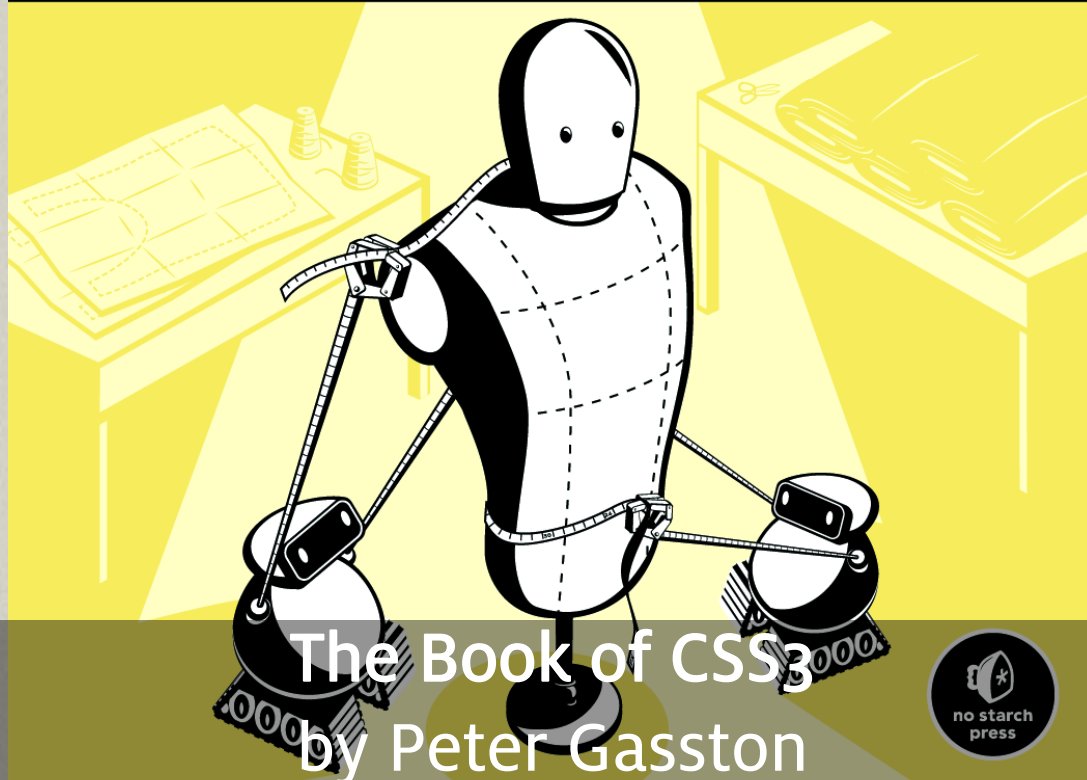


*CSS3, hot off the presses!*

# THE BOOK OF CSS3

A DEVELOPER'S GUIDE TO THE  
FUTURE OF WEB DESIGN

PETER GASSTON



The Book of CSS3  
by Peter Gasston





# *Project-based CSS3*

## *Stunning* **CSS3**

A PROJECT-BASED GUIDE  
TO THE LATEST IN CSS

**Stunning CSS3**  
by Zoe Mikely Gillenwater

Simply Responsive  
CSS3



# *CSS3 Condensed and Explained*

2

Dan Cederholm

---

## CSS3 FOR WEB DESIGNERS

CSS3 For Web Designers  
by Dan Cederholm

Simply Responsive  
CSS3



# The book on *Responsive Web Design*

4

Ethan Marcotte

---

# RESPONSIVE WEB DESIGN

Responsive Web Design  
by Ethan Marcotte

Simply Responsive  
CSS3



# *CSS3 and Media Queries*



**Hardboiled Web Design**  
by Andy Clarke

Simply Responsive  
CSS3





# *Flexible Layouts*

# FLEXIBLE WEB DESIGN

*Creating Liquid and Elastic Layouts with CSS*

ZOE MICKLEY GILLENWATER

Flexible Web Design  
by Zoe Mickley Gillenwater

Simply Responsive  
CSS3



*Proactive coding & graceful degradation*

The **CSS**  
**DETECTIVE GUIDE**

**TRICKS FOR  
SOLVING TOUGH  
CSS MYSTERIES!**

**DENISE R. JACOBS**

[CssDetectiveGuide.com](http://CssDetectiveGuide.com)

Simply Responsive  
CSS3





# *Holistic Web Design*

## INTERACT WITH<sup>\*</sup> WEB STANDARDS

A HOLISTIC APPROACH TO WEB DESIGN

Interact with Web Standards: A Holistic Approach to  
Web Design

By Andy Bell, Virginia Deletto, Irene Greathouse, Jeff  
Gunther, Denise Jacobs, Leslie Jensen-Inman, Chris Mills,  
Christopher Smith, Glenn Sims, and Aaron Walter

Simply Responsive  
CSS3





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**Text 50500  
denisejacobs**



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THANK YOU.**

[www.thankyou.com](http://www.thankyou.com)

