Improving Efficiency and Usability with CSS3

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ConvergeSE

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What I do

Books

now Flexible Web Design:
Creating Liquid and Elastic
Layouts with CSS
www.flexiblewebbook.com

soon Stunning CSS3:

A Project-based Guide to the Latest in CSS www.stunningcss3.com

Web

Freelance graphic designer and web developer

CSS consultant
Member of Adobe
Task Force for WaSP

What is CSS3?

See modules at www.w3.org/Style/CSS/current-work

Abbreviation	Full name
WD	Working Draft
LC	Last Call
CR	Candidate Recommendation
PR	Proposed Recommendation
REC	Recommendation

High Priority	Current	Upcoming	
CSS Level 2 Revision 1	Candidate Recommendation	Proposed Recommendation	
Selectors	Proposed Recommendation	Recommendation	
CSS Mobile Profile 2.0	Candidate Recommendation		
CSS Marquee	Candidate Recommendation	•	
Medium Priority	Current	Upcoming	
CSS Snapshot 2007	<u>Last Call</u>	Candidate Recommendation	
CSS Namespaces	Candidate Recommendation	Proposed Recommendation	
CSS Paged Media	Last Call	Last Call	
CSS Print Profile	Last Call	Candidate Recommendation	
CSS Values and Units	Working Draft	Working Draft	
CSS Cascading and Inheritance	Working Draft	Working Draft	
CSS Text	Working Draft	Working Draft	
CSS Text Layout		Working Draft	
CSS Line Grid		Working Draft	
CSS Ruby	Candidate Recommendation	Working Draft	
CSS Generated Content for Paged Media	Working Draft	Working Draft	
CSS Backgrounds and Borders Level 3	Last Call	Candidate Recommendation	
CSS Fonts	Working Draft	Last Call	
CSS Basic Box Model	Working Draft	Working Draft	
CSS Multi-column Lavout	Candidate Recommendation		
CSS Template Layout	Working Draft	Working Draft	
Media Queries		Proposed Recommendation	
CSS Speech	Working Draft	Working Draft	
CSS Color	Last Call	Proposed Recommendation	
CSS Basic User Interface		Test Suite	
CSS Scoping		Working Draft	
CSS Grid Positioning	Working Draft	Working Draft	
CSS Flexible Box Layout	Working Draft	Working Draft	
CSS Image Values	Working Draft	Working Draft	
CSS 2D Transformations	Working Draft	Working Draft	
CSS 3D Transformations	Working Draft	Working Draft	
CSS Transitions	Working Draft	Working Draft	
CSS Animations	Working Draft	Working Draft	
Low Priority	Current	Upcoming	
CSSOM View	Working Draft	Working Draft	
CSS Extended Box Model		Working Draft	
CSS Object Model		Working Draft	
CSS Syntax	Working Draft	Working Draft	
CSS Lists	Working Draft	Working Draft	
CSS Tables		Working Draft	
CSS Reader Media Type	Working Draft	-	
CSS Positioning	x oran	Working Draft	
CSS Generated and Replaced Content	Working Draft	Working Draft	
	Working Draft	Working Draft	
CSS Line Layout			

Use the parts of CSS3 that:

- have generally stable syntax.
- have good support.
- don't harm non-supporting browsers by their lack.

Progressive enhancement

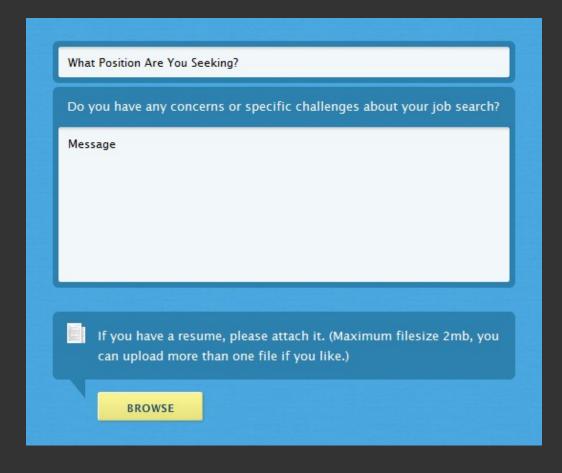


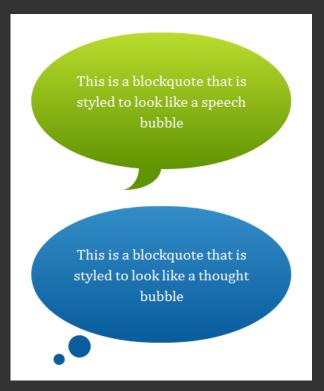
Progressive enhancement...aims to deliver the best possible experience to the widest possible audience — whether your users are viewing your sites on an iPhone, a highend desktop system, a Kindle, or hearing them on a screen-reader, their experience should be as fully featured and functional as possible.



Backgrounds and Borders Module

border-radius

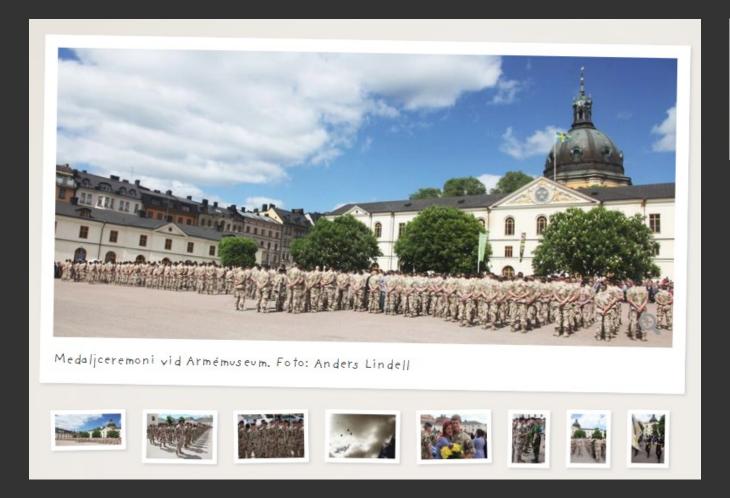






Backgrounds and Borders Module

box-shadow



CSS3 Button

No Images!

I have rainbow borders!

Text Module

text-shadow

Ventures

When you see the *Made For Humans* label it signifies an original, hand crafted idea or product — created by Crushers (that's us), sometimes hand in hand with our mighty family of strategic partners.

Inset Typography

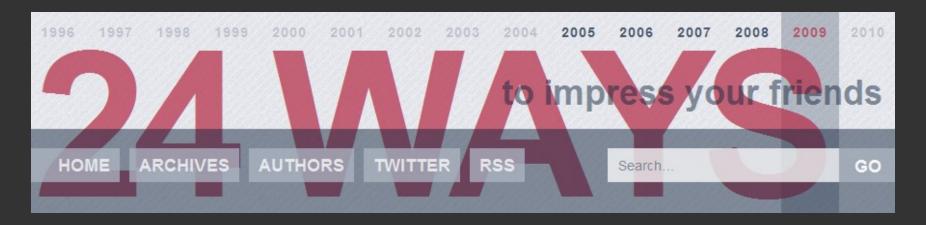




http://crushlovely.com, http://sixrevisions.com/css/how-to-create-inset-typography-with-css3, http://desandro.com, www.time2project.com

Color Module

RGBA and HSLA







http://24ways.org, http://css-tricks.com/text-blocks-over-image, www.marcofolio.net/css/sweet_tabbed_navigation_using_css3.html

Fonts Module

@font-face



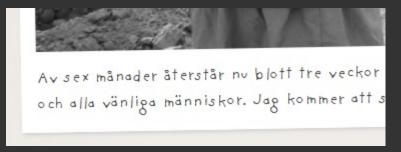




ORIGINAL, JUST TRY
TO BE GOOD.

—Paul Rand paraphrasing <u>Ludwig Mies van der Robe's</u> quote:

"I don't want to be interesting. I want to be good."



www.blueskyresumes.com, www.jasonsantamaria.com, www.becherry.be, http://themanyfacesof.com/john-cusack, www.fredssoldater.se

2D Transforms Module

Transforms







Benefits of CSS3 (besides looking cool)

Decrease

development time maintenance time page loading time

Increase

usability
accessibility
adaptability across devices
search engine placement

Reduced development and maintenance time

- Less images, Flash, JavaScript
- Streamlined markup

Increased page performance

- Smaller file sizes
- Fewer HTTP requests

Reducing the number of HTTP requests...is the most important guideline for improving performance for first time visitors.

Yahoo! Exceptional Performance Team, http://developer.yahoo.com/performance/rules.html

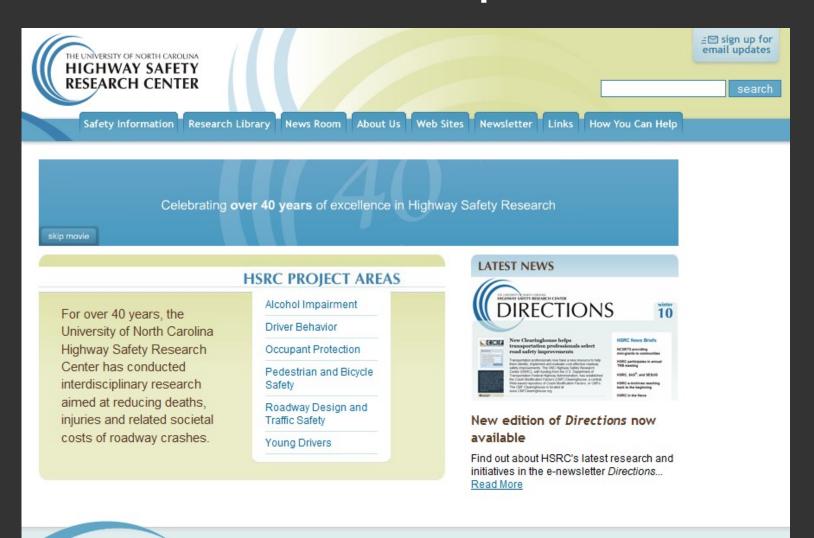
Better search engine placement

- Google may make speed ranking factor
- Real text instead of image or Flash text

Increased usability

- Real text
- Optimized styles based on device capabilities

Real-world example



Before CSS3

	FF 3.6	IE 8	IE 6
HTTP requests	36	37	47
Loading time seconds	1.5	1.3	3

The nav bar, before

8 images

Safety Information

inutive

Safety Information

hovered

Safety Information

curent pup indicator

The nav bar, after

1 image

About Us	How You Can Help	Links	Newsletter	News Room	Research Library	Safety Information	Web Sites
About Us	How You Can Help	Links	Newsletter	News Room	Research Library	Safety Information	Web Sites
About Us	How You Can Help	Links	Newsletter	News Room	Research Library	Safety Information	Web Sites

Before CSS3, optimized

	FF 3.6	IE 8	IE 6
HTTP requests	29	30	33
Loading time seconds	1.3	1.15	2
decrease	↓13%	↓ 11%	↓ 33%

After CSS3

	FF 3.6	IE 8	IE 6
HTTP requests	22	23	24
Loading time seconds	1.1	1	1.5
decrease	↓ 15%	↓ 13%	↓25%

Media query for nav bar

```
@media all and (max-width: 52em) {
                                       English translation:
    #swoosh { display: none; }
                                       Up to a maximum width of
    #mainnav { padding: 8px 0; }
                                       52 ems, use these styles.
    #mainnav ul { margin: 0; }
                                       Once you get past 52 ems,
    #mainnav li {
                                       use the regular styles.
        margin-left: 12px;
        padding: 0;
        border: none;
        -moz-border-radius: 0;
        border-radius: 0;
        background: none; }
    #mainnav li:hover { background: none; }
```

Media queries for mobile

```
@media only screen and (device-width: 768px) and
(orientation: landscape) {
    /* rules for iPad in landscape orientation */
}
@media only screen and (min-device-width: 320px) and
(max-device-width: 480px) {
    /* iPhone, Android rules here */
}
```

Learn more

Download slides, get links: www.zomigi.com

Questions?

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