



# CSS3 WORKSHOP

OCLC.ORG 2011



**Christopher Schmitt**

<http://twitter.com/@teleject>



# WHO AM I?



- Web design specialist, trainer
- Organize online & offline Web design conferences
- Author of *Designing CSS Web Pages*
- Author of *CSS Cookbook, 3rd Edition*
- <http://ChristopherSchmitt.com>

# TODAY'S **AGENDA**



- **What is CSS3?**
- **Explore new CSS3 selectors, properties**
  - **(and some other things, too)**
- **How to make them cross-browser, when possible**
- **Tinker with CSS3 examples on our own**
- **Look at resources to help include CSS3 into your designs**

# WHAT IS CSS3?





[Activities](#) • [Tech. reports](#) • [Site index](#) • [Translations](#) • [Software](#) • [Search](#) • [Nearby](#): • [Style](#) • [Blog](#)  
• [Syndicator](#) • [CSS](#)

Local links

What's new?

Contributing

Test suites

non-CSS

Profiles

About the colors

Blog

## CASCADING STYLE SHEETS

### CURRENT WORK

This page lists the CSS3 modules currently under development, according to their priority within the working group. (See [explanation](#).)

High Priority	Current	Upcoming
<a href="#">CSS Level 2 Revision 1</a>	<a href="#">Candidate Recommendation</a>	Proposed Recommendation
<a href="#">Selectors</a>	<a href="#">Proposed Recommendation</a>	<a href="#">Recommendation</a>
<a href="#">CSS Mobile Profile 2.0</a>	<a href="#">Candidate Recommendation</a>	Proposed Recommendation
<a href="#">CSS Marquee</a>	<a href="#">Candidate Recommendation</a>	Proposed Recommendation
Medium Priority	Current	Upcoming
<a href="#">CSS Snapshot 2007</a>	<a href="#">Last Call</a>	<a href="#">Candidate Recommendation</a>
<a href="#">CSS Namespaces</a>	<a href="#">Candidate Recommendation</a>	<a href="#">Proposed Recommendation</a>
<a href="#">CSS Paged Media</a>	<a href="#">Last Call</a>	<a href="#">Last Call</a>
<a href="#">CSS Print Profile</a>	<a href="#">Last Call</a>	<a href="#">Candidate Recommendation</a>
<a href="#">CSS Values and Units</a>	<a href="#">Working Draft</a>	<a href="#">Working Draft</a>

# ~50 CSS3 Modules

<http://www.w3.org/Style/CSS/current-work#CSS3>

# WHERE IS CSS3 COMING?

- **The specification is divided into different chunks, modules**
  - **<http://www.w3.org/Style/CSS/current-work>**
    - **Transformations**
    - **Animations**
    - **Media Queries**
    - **and so on, and so on...**
    - **at a glacial pace ever towards yesterday**

# WHERE IS CSS3 COMING?

- **The specification is divided into different chunks, modules**
  - **<http://www.w3.org/Style/CSS/current-work>**
- **The specification is being written by W3C**
  - **<http://www.w3.org/Style/CSS/>**



# WHERE IS CSS3 COMING?

- **The specification is divided into different chunks, modules**
  - **<http://www.w3.org/Style/CSS/current-work>**
- **The specification is being written by W3C**
  - **<http://www.w3.org/Style/CSS/>**
- **Browser vendors (like Firefox, Safari, and Opera) are implementing their own versions of these unfinished standards**
- **IE9 is “bringing the power of PC hardware and Windows”**



CSS3 . Info / selectors test / CSS Selectors testsuite

## CSS Selectors

### Is your browser compatible?

<http://blogs.msdn.com/ie/archive/2009/11/18/an-early-look-at-ie9-for-developers.aspx>

selector it is marked as such. You can click on each CSS selector to see the results, including a small example and explanation for each of tests.

Because it is technically not possible to simulate certain user interactions the test is limited to CSS selectors that are not dependent on user interactions. So this test-suite does not include tests for the following selectors: :hover, :active, :focus and :selection.

From the 43 selectors 41 have passed, 1 are buggy and 1 are unsupported (Passed 574 out of 578 tests)



# **EXPLORING CSS3 (AND STUFF)**

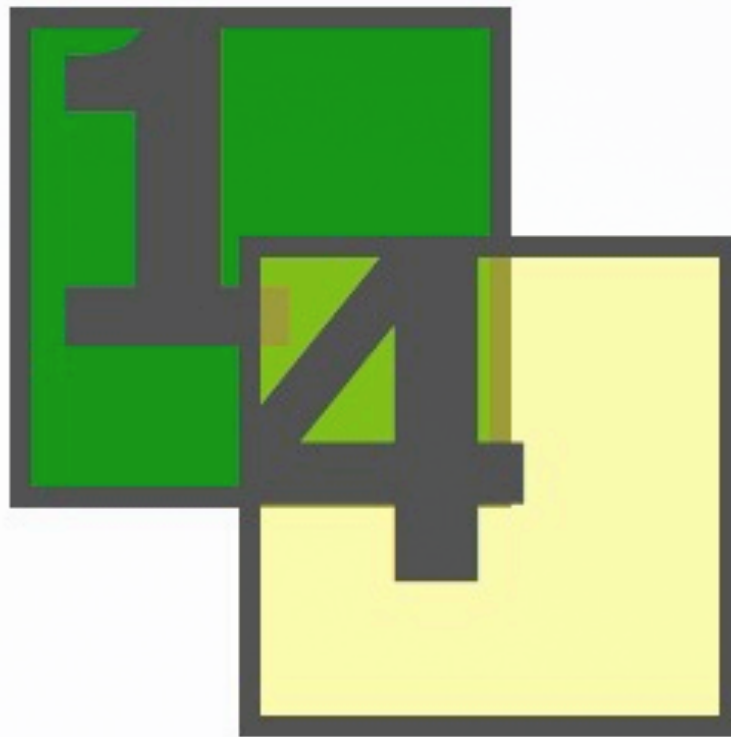


# COLOR



# **COLOR: OPACITY ON BACKGROUND COLORS (RGBA)**





# OPACITY

```
#number4 {  
  background-color: rgba(255, 255, 0, .4);  
}
```

# OPACITY

```
#number4 {  
  background-color: rgb(255, 255, 0);  
  background-color: rgba(255, 255, 0, .4);  
}
```

# LESSONS LEARNED

- **Firefox 3+, Opera 10+, IE9+, and Safari support RGBA**
- **Requires another background-color property for cross-browser support.**
- **IE Support?**

# OPACITY IN IE

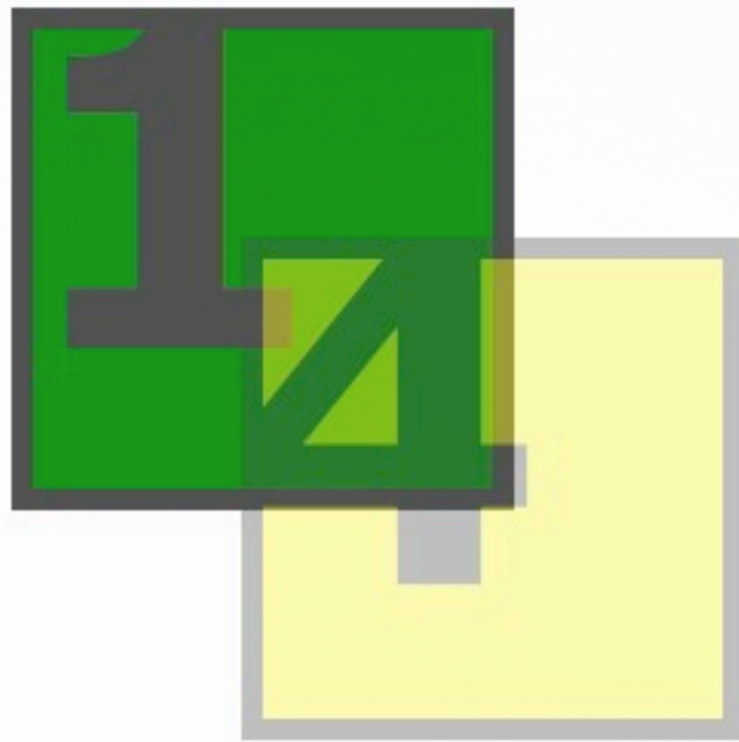
```
#number4 {  
  background-color: transparent;  
  filter:progid:DXImageTransform.Microsoft.gradient(  
    startColorstr=#66FFFF00,  
    endColorstr=#66FFFF00  
  );  
}
```

# OPACITY IN IE

- **First step is to convert the RGB value of the color to hexadecimal. In this example, `rgb(255,255,0)` converts to `#FFFFFF00`.**
- **Next, convert the alpha transparency value to hexadecimal string . In this example, the value is `66`.**
  - **E.g., alpha value of `.3` equals `4D` in hexadecimal values**
- **Then assemble the hexadecimal value for transparency and the color together in one string, starting with the transparency: `#66FFFFFF00`.**

# OPACITY ON ELEMENTS





# OPACITY ON ELEMENTS

```
#number4 {  
  opacity: .4; /* .4 = 40% transparency */  
  filter: alpha(opacity=40); /* 40 = 40%  
  transparency */  
}
```

# LESSONS LEARNED

- Supported in Firefox 1.5+, Opera 9+, Safari 1.2+ and Chrome.
- IE 5.5+ requires the use of its own alpha filter in order for the effect to be cross-browser.
- A drawback to using the opacity filter is that the value is inherited:
  - If a parent element is set to be 10% transparent, the child elements' transparency is also going to be 10%.
  - Watch out for legibility issues within the Web page.

**TEXT**



# TEXT-OVERFLOW



# PNEUMONOUltramicropicsilicovolcanoconiosis

The longest word in the Oxford English dictionary is used to name a lung disease caused by the inhalation of very fine silica dust, causing inflammation in the lungs.



file:///Users/christopher/Documents/

CSS Cookbook

Christopher Schmitt : Desig...

The doctor says I have  
Pneumonoultramicro...  
and I should buy a  
dictionary.

The doctor says I ha...

# TEXT-OVERFLOW

```
p {  
  text-overflow: ellipsis;  
  -o-text-overflow: ellipsis;  
}
```

# LESSONS LEARNED

- Support:
  - Safari
  - Opera
  - and IE

# TEXT-SELECTION





# TEXT-SELECTION

```
::selection {  
  color: #90c;  
  background: #cf0;  
}
```

```
::-moz-selection {  
  color: #90c;  
  background: #cf0;  
}
```

# LESSONS LEARNED

- Support:
  - Safari
  - Firefox
  - IE9+
- Nice subtle effect, esp. if you deal with a lot of text on your site.

<http://trim/Knr0>

# TEXT COLUMNS



# THE LOREM IPSUM & DOLOR

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exercitation ullamcorper suscipit lobortis nisl ut aliquip ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum

dolore eu feugiat nulla facilisis at vero eros et accumsan et iusto odio dignissim qui blandit praesent luptatum zzril delenit augue duis dolore te feugait nulla facilisi.

## E Pluribus Unum

Epsum factorial non deposit quid pro quo hic escorol. Olypian quarrels et gorilla congolium sic ad nauseum. Souvlaki ignitus carborundum e

pluribus unum. Defacto lingo est igpay atinlay. Marquee selectus non provisio incongruous feline nolo contendre. Gratuitous octopus niacin, sodium glutimate. Quote meon an estimate et non interruptus stadium. Sic tempus fugit esperanto hiccup estrogen. Glorious baklava ex librus hup hey ad infinitum. Non sequitur condominium facile et geranium incognito.

Epsum factorial non deposit quid pro quo hic escorol. Marquee selectus non provisio incongruous feline nolo contendre Olypian quarrels et gorilla congolium sic ad nauseum. Souvlaki ignitus carborundum e pluribus unum.

## Plu Sommun Paroles

Li European lingues es membres del sam familie. Lor separat

existentie es un myth. Por scientie, musica, sport etc., li tot Europa usa li sam vocabularium. Li lingues differe solmen in li grammatica, li prononciation e li plu commun vocabules. Omnicos directe al desirabilita de un nov lingua franca: on refusa continuar payar custosi traductores. It solmen va esser necessari far uniform grammatica, prononciation e plu sommun paroles.

# TEXT COLUMNS

**<div id="column">**

<p>...<p>

<h2>...</h2>

<p>...<p>

<h2>...</h2>

<p>...<p>

**</div>**

# TEXT COLUMNS

```
#column {  
-moz-column-gap: 3em;  
-moz-column-width: 11em;  
-webkit-column-gap: 3em;  
-webkit-column-width: 11em;  
padding: 10px;  
}
```

# TEXT COLUMNS

```
#column {  
  -moz-column-gap: 3em;  
  -moz-column-width: 11em;  
  -moz-column-rule: 1px solid #ccc;  
  -webkit-column-gap: 3em;  
  -webkit-column-width: 11em;  
  -webkit-column-rule: 1px solid #ccc;  
  padding: 10px;  
}
```

# LESSONS LEARNED

- Proprietary CSS extensions in Firefox and Safari.
- JavaScript solution through a jQuery plugin:  
<http://welcome.totheinter.net/2008/07/22/multi-column-layout-with-css-and-jquery/>

<http://trim/Knrj>

**@FONT-FACE**





# The Lorem Ipsum & Dolor

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut  
magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper sus  
ut aliquip ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse  
consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et accumsan et iusto odio dignissim qui  
luptatum zzril delenit augue duis dolore te feugait nulla facilisi.

## E Pluribus Unum

Epsum factorial non deposit quid pro quo hic escorol. Olypian quarrels et gorilla congolium sic ad naus  
ignitus carborundum e pluribus unum. Defacto lingo est igpay atinlay. Marquee selectus non provisio in  
nolo contendere. Gratuitous octopus niacin, sodium glutimate. Quote meon an estimate et non interruptu  
tempus fugit esperanto hiccup estrogen. Glorious baklava ex librus hup hey ad infinitum. Non sequitur  
facile et geranium incognito. Epsum factorial non deposit quid pro quo hic escorol. Marquee selectus non  
incongruous feline nolo contendere Olypian quarrels et gorilla congolium sic ad nauseum. Souvlaki igni  
pluribus unum.

## Plu Sommun Paroles

# FONT FILE SUPPORT

	.ttf	.otf	.eot
Safari 3.1+	<b>Y</b>	<b>Y</b>	
Opera 10+	<b>Y</b>	<b>Y</b>	
Firefox 3.5+	<b>Y</b>	<b>Y</b>	
IE4+			<b>Y</b>

# @FONT-FACE

```
@font-face {  
  font-family: 'MyFontFamily';  
  src: url('myfont-webfont.eot'); /* IE9 Compat Modes */  
  src: url('myfont-webfont.eot?iefix') format('eot'), /* IE6-IE8 */  
  url('myfont-webfont.woff') format('woff'), /* Modern Browsers */  
  url('myfont-webfont.ttf') format('truetype'), /* Safari, Android,  
iOS */  
  url('myfont-webfont.svg#svgFontName') format('svg'); /* Legacy  
iOS */  
}  
h1 {  
  font-family: "MyFontFamily", Verdana, sans-serif;  
}
```

<http://paulirish.com/2009/bulletproof-font-face-implementation-syntax/>

# LESSONS LEARNED

- Getting @font-face to work is a little tough.
  - Use <http://fontquirrel.com> for pre-made kits, @font-face generator
- Chrome supports @font-face
- Don't feel like bothering with all that hassle?
  - Use font services like [typekit.com](http://typekit.com) for 100s of licensed fonts.
  - Use commercially free fonts (see <http://fontquirrel.com>)

# LESSONS LEARNED

- Font files are LARGE
  - gzip them, if you use them:  
<http://articles.sitepoint.com/article/web-site-optimization-steps/2>
- New font file format: WOFF:  
<http://hacks.mozilla.org/2009/10/woff/>
  - Font files are already compressed and supports meta information telling where the font came from. (Vendors happy.)
  - It's supported FF3.6+, IE9+

# OH? YOU WANT “ITALICS”?

```
@font-face {  
  font-family: 'MyFontFamilyItalic';  
  src: url('myfont-webfont-italic.eot'); /* IE9 Compat Modes */  
  src: url('myfont-webfont-italic.eot?iefix') format('eot'), /* IE6-IE8 */  
  url('myfont-webfont-italic.woff') format('woff'), /* Modern Browsers */  
  url('myfont-webfont-italic.ttf') format('truetype'), /* Safari, Android, iOS */  
  url('myfont-webfont-italic.svg#svgFontName') format('svg'); /* Legacy iOS  
*/  
}
```

<http://www.fontspring.com/blog/further-hardening-of-the-bulletproof-syntax>

# TEXT-SHADOW



# A Good Sleepy is a Good Thing Indeed

I had to wake up early for the dentist appointment this morning. Why is it that on the day I have to wake up really early it is with a good sleep? I had the blankets right where they were the most comfortable, too.

If that ever happens, our society should allow you to tell the other person you were late because you realized you in the middle of a "good sleepy". It's the positive version of "I was in a car accident."

Try the phrase out, see how it works and report back to me.

# TEXT-SHADOW

```
h1 {  
  font-size: 2.5em;  
  font-family: Myriad, Helvetica, Arial, sans-serif;  
  width: 66.6%;  
  text-shadow: yellow .15em .15em .15em;  
  margin: 0 0 0.1em 0;  
}
```

# The Lorem Ipsum & Dolor

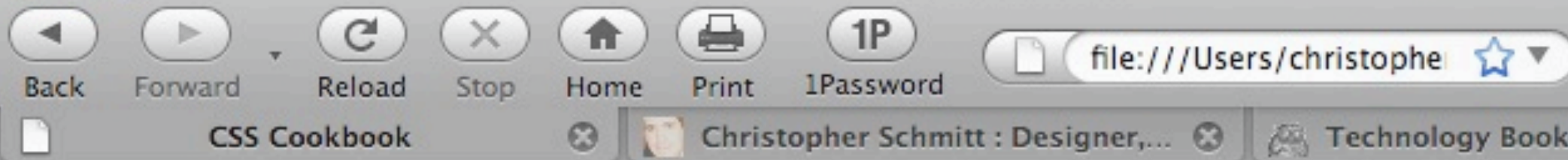
Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt ut laoreet dolore magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et accumsan et iusto odio dignissim qui blandit praesent luptatum zzril delenit augue duis dolore te feugait nulla facilisi.

## E Pluribus Unum

Epsum factorial non deposit quid pro quo hic escorol. Olypian quarrels et gorilla congolium sic ad nauseum. Souvignac ignitus carborundum e pluribus unum. Defacto lingo est igpay atinlay. Marquee selectus non pudibunda nolo contendere. Gratuitous octopus niacin, sodium glutimate. Quote meon an estimate et non in aedem ipsum tempus fugit esperanto hiccup estrogen. Glorious baklava ex libris hup hey ad infinitum. Non in aedem ipsum facile et geranium incognito. Epsum factorial non deposit quid pro quo hic escorol. Marquee selectus incongruous feline nolo contendere Olypian quarrels et gorilla congolium sic ad nauseum. Souvignac pluribus unum.

# BEVEL TEXT-SHADOW

```
body {  
  background-color: #999;  
}  
h1 {  
  text-shadow: 0 1px 0 rgba(255,255,255,.6);  
}
```



# The Lorem Ipsum & Dolor

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed diam nonummy nibh euismod tincidunt magna aliquam erat volutpat. Ut wisi enim ad minim veniam, quis nostrud exerci tation ullamcorper ut aliquip ex ea commodo consequat. Duis autem vel eum iriure dolor in hendrerit in vulputate velit esse molestie consequat, vel illum dolore eu feugiat nulla facilisis at vero eros et accumsan et iusto odio dignissim qui blandit praesent luptatum zzril delenit augue duis dolore te feugait nulla facilisi.

## E Pluribus Unum

Epsum factorial non deposit quid pro quo hic escorol. Olypian quarrels et gorilla congolium sic ad nauseum. Ignitus carborundum e pluribus unum. Defacto lingo est igpay atinlay. Marquee selectus non probo nolo contendere. Gratuitous octopus niacin, sodium glutimate. Quote meon an estimate et non intertempus fugit esperanto hiccup estrogen. Glorious baklava ex librus hup hey ad infinitum. Non sequitur facile et geranium incognito. Epsum factorial non deposit quid pro quo hic escorol. Marquee selectus incongruous feline nolo contendere Olypian quarrels et gorilla congolium sic ad nauseum. Souvlaki pluribus unum.

# TEXT-SHADOW FLAME

```
h1 {  
  color: red;  
  text-shadow: rgba(0, 0, 0, .9) 0px 0px 1px,  
              rgba(255, 255, 51, .9) 0px -5px 5px,  
              rgba(255, 204, 51, .7) 2px -10px 7px,  
              rgba(255, 153, 0, .6) -2px -15px 10px;  
}
```



# *The Lorem Ipsum & Dolor*

# SOLAR TEXT-SHADOW

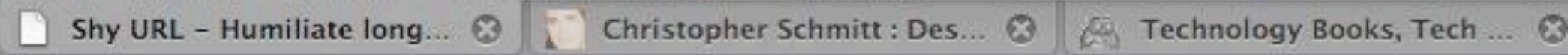
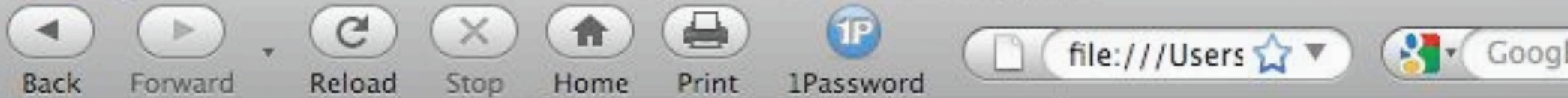
```
body {  
  background-color: #dcaa96; /* not white */  
  background-image: url(tile.jpg);  
}  
h1 {  
  color: white;  
  text-shadow: black 0px 0px 6px;  
}
```

# **BORDERS**



# BOX-SHADOW





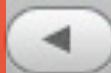
# BOX-SHADOW

```
#header {  
text-shadow: 0 -1px 0 rgba(0,0,0,.8);  
box-shadow: 3px 3px 19px rgba(0,0,0,.8);  
-webkit-box-shadow: 3px 3px 19px rgba(0,0,0,.8);  
-moz-box-shadow: 3px 3px 19px rgba(0,0,0,.8);  
}
```

links in `external` / `but` / `code`

# BORDER-IMAGE

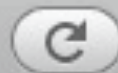




Back



Forward



Reload



Stop



Home



Print



1Password



file:///Users/chris



CSS Cookbook



Christopher Schmitt : D...



Technology Books, Tec...



## Images on Borders

• Epsum factorial non deposit quid pro quo hic escorol. Olypian quarrels et gorilla congolium sic ad nauseum. Souvlaki ignitus carborundum e pluribus unum..

# BORDER-IMAGE

```
<div id="#section">
```

```
<h2>Images on Borders</h2>
```

```
<p>Epsum factorial non deposit quid pro quo hic escorol.  
Olympian quarrels et  
gorilla congolium sic ad nauseum. Souvlaki ignitus  
carborundum  
e pluribus unum..</p>
```

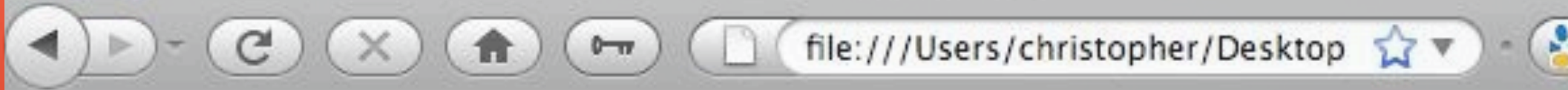
```
</div><!-- /#section -->
```

# BORDER-IMAGE

```
#section {  
border-style: solid;  
border-color: #930;  
border-width: 26px 39px 37px 43px;  
border-image: url(frame.png) 26 39 37 43 stretch stretch;  
-webkit-border-image: url(frame.png) 26 39 37 43 stretch  
stretch;  
-moz-border-image: url(frame.png) 26 39 37 43 stretch  
round;  
}
```

# LESSONS LEARNED

- Works in FF 3.1+ and Safari 4+.
- Image is scaled, if text is also scaled.



file:///Users/christopher/Desktop

Contacts Events Locations Tagspaces Bookmarks Resources

CSS Cookbook Christopher Schmitt : D... Technology Books, Tech

**SUBMIT**



# BORDER-IMAGE

```
<form action="/" method="get">  
  <button>Submit</button>  
</form>
```

# BORDER-IMAGE

```
button {  
  background: none;  
  width: 250px;  
  padding: 10px 0 10px 0;  
  border-style: solid;  
  border-color: #666;  
  border-width: 0 17px 0 17px;  
}
```

# BORDER-IMAGE

```
button {  
  background: none;  
  width: 250px;  
  padding: 10px 0 10px 0;  
  border-style: solid;  
  border-color: #666;  
  border-width: 0 17px 0 17px;  
  border-image: url(bkgd-button.png);  
}
```

# BORDER-IMAGE

```
button {  
  background: none;  
  width: 250px;  
  padding: 10px 0 10px 0;  
  border-style: solid;  
  border-color: #666;  
  border-width: 0 17px 0 17px;  
  border-image: url(bkgd-button.png) 0 17 0 17 stretch stretch;  
}
```

# BORDER-IMAGE

```
button {  
background: none;  
width: 250px;  
padding: 10px 0 10px 0;  
border-style: solid;  
border-color: #666;  
border-width: 0 17px 0 17px;  
border-image: url(bkgd-button.png) 0 17 0 17 stretch stretch;  
-webkit-border-image: url(bkgd-button.png) 0 17 0 17 stretch  
stretch;  
-moz-border-image: url(bkgd-button.png) 0 17 0 15 stretch  
stretch;  
}
```

# BORDER-IMAGE

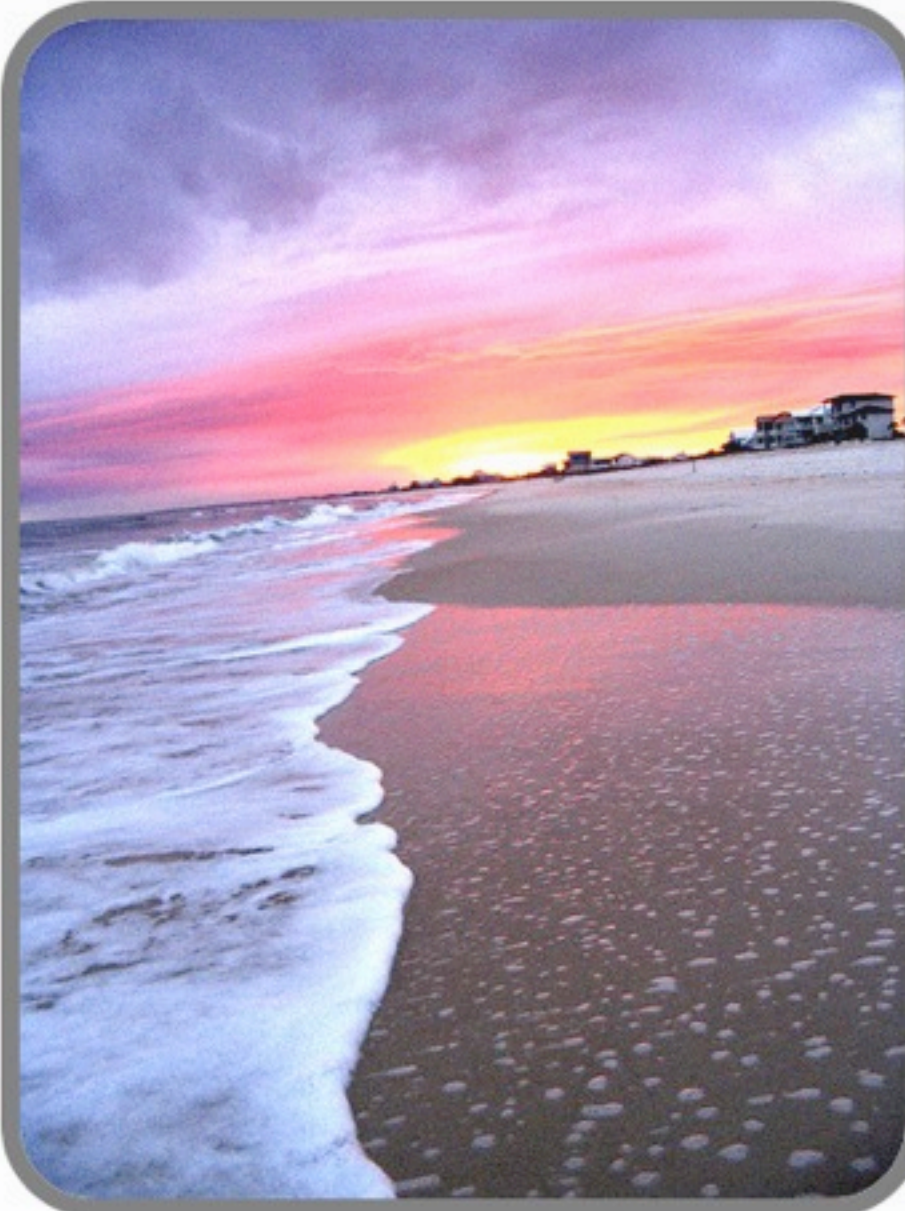
```
button {  
background: none;  
width: 250px;  
padding: 10px 0 10px 0;  
border-style: solid;  
border-color: #666;  
border-width: 0 17px 0 17px;  
border-image: url(bkgd-button.png) 0 17 0 17 stretch stretch;  
-webkit-border-image: url(bkgd-button.png) 0 17 0 17 stretch stretch;  
-moz-border-image: url(bkgd-button.png) 0 17 0 15 stretch stretch;  
color: white;  
font-family: "Gill Sans", Trebuchet, Calibri, sans-serif;  
font-weight: bold;  
text-transform: uppercase;  
text-shadow: 0px 0px 5px rgba(0,0,0,.8);  
}
```

# LESSONS LEARNED

- Works in FF 3.1+ and Safari 4+.
- Image is scaled, if text is also scaled.
- Other values besides “stretch” are “repeat” (tiles the image); “round”, which tiles and filled it with whole images; and “space”, which is like “round” except it leaves empty space

# **BORDER-RADIUS**





# BORDER-RADIUS

```
div {  
background-image: url(beach.jpg);  
width: 375px;  
height: 500px;  
border: 8px solid #666;  
border-radius: 40px;  
-moz-border-radius: 40px;  
-webkit-border-radius: 40px;  
}
```

# BORDER-RADIUS

CSS3	Firefox	WebKit
border-radius	-moz-border-radius	-webkit-border-radius
border-top-left-radius	-moz-border-radius-topleft	-webkit-border-top-left-radius
border-top-right-radius	-moz-border-radius-topright	-webkit-border-top-right-radius
border-bottom-right-radius	-moz-border-radius-bottomright	-webkit-border-bottom-right-radius
border-bottom-left-radius	-moz-border-radius-bottomleft	-webkit-border-bottom-left-radius

# LESSONS LEARNED

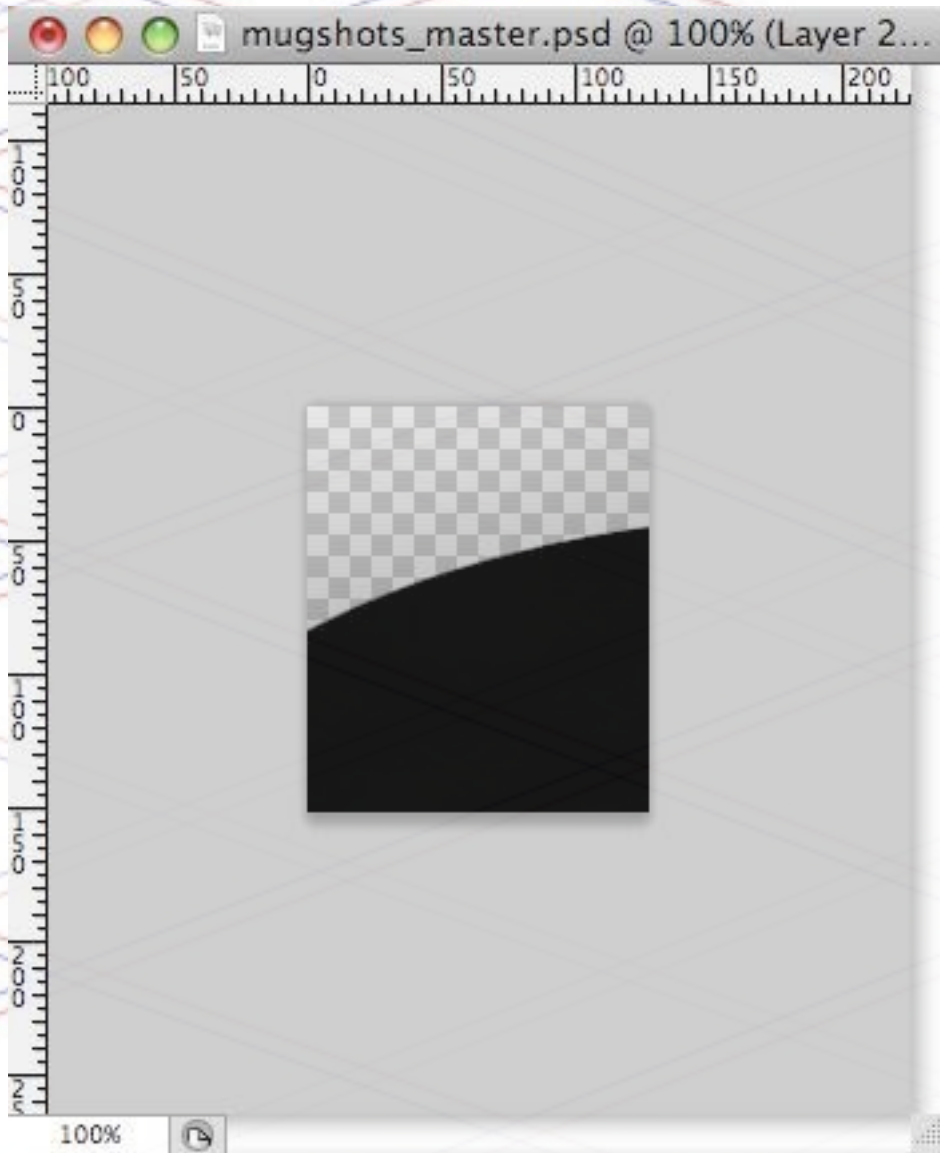
- Radius is half the distance of the diameter. (Stay in school, kids!)
- Radius border can be applied to one, two, three or all corners.
- The higher the value for the radius, the more rounded the corner will be.
- If borders on an inline image (IMG element) are rather large, borders are shown behind the image (see previous screenshot).
  - Workaround is to either keep border-radius value small or place image in background.

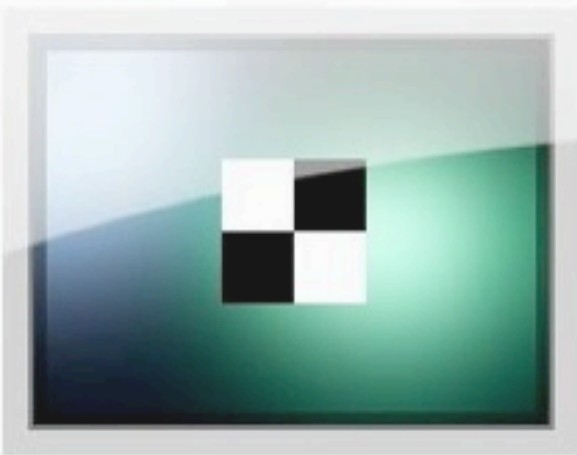
# EFFECTS



# IMAGE MASKS







# IMAGE MASKS

```
img {  
  display: block;  
  float: left;  
  margin-right: 20px;  
  border: 10px solid #ccc;  
  padding: 2px;  
  background-color: #666;  
  -webkit-mask-box-image: url(mask.png);  
}
```

# LESSONS LEARNED

- When creating a mask, every part of the image that is transparent becomes the mask or the part that hides a portion of the background image.
  - Approach is somewhat hard to understand, since typically, alpha transparency is, well, transparent.
- The masks scale to the complete width of image, including borders.
- The background shows through, including background images.
  - Might work best with areas of flat color behind the images

# GRADIENTS





file:///Users/christ

CSS Cookbook Christopher Schmitt : Design... Technology Books, Tech C



# GRADIENTS

```
div.building {  
border: 1px solid #666;  
float: left;  
width: 300px;  
height: 300px;  
margin: 20px;
```

```
background-image:
```

```
-webkit-gradient(radial,center center,900,center  
bottom,0,from(#0cf),to(white));
```

```
background-image:
```

```
-moz-radial-gradient(center,900px,center  
bottom,0,from(#0cf),to(white));
```

```
background-repeat: no-repeat;
```

```
}
```

# SAFARI GRADIENTS

**background-image:  
-webkit-gradient();**

Recommend using background-image over background shorthand.

# SAFARI GRADIENTS

**background-image:**  
**-webkit-gradient(radial);**

Other value it accepts is linear.

# SAFARI GRADIENTS

**background-image:**

**-webkit-gradient(radial,center center,900);**

Set the starting position of gradient.

# SAFARI GRADIENTS

**background-image:**

**-webkit-gradient(radial,center center,900,center  
bottom,0);**

Set the end position of gradient.

# SAFARI GRADIENTS

**background-image:**

**-webkit-gradient(radial,center center,900,center bottom,0,from(#0cf),to(white));**

Set the starting and stopping colors.

# LESSONS LEARNED

- Gradients in Safari can be applied to not just background images of block-level elements, but also:
  - list bullets, generated content, and border-images!
- Unit values aren't accepted (px, em, etc.) It's assumed to be pixels.
- Don't use background-position shorthand values.
- Use a background-image with a gradient for "older" browsers.

# FIREFOX GRADIENTS

- Whereas Safari sets the type of gradient within its own proprietary property, Firefox has properties for both types of gradients: `-moz-radial-gradient()` and `-moz-radiallinear()`.
- Unlike the Safari gradient, you can use background-position shorthand values *and* unit values when setting the starting and stopping points of gradients.
- Firefox's implementation of CSS gradients concerns transparency.

# FIREFOX GRADIENTS

```
background-image: -moz-linear-gradient(left top, left bottom,  
from(rgba(153,51,0,.3)), to(#6b3703), color-stop(0.5, #903000));
```

# Ultimate CSS Gradient Generator

A powerful Photoshop-like CSS gradient editor from [ColorZilla](http://colorzilla.com).

## Presets



Name:



## Stops

Color:  Location:  %

**News:** version 2 is here - [see what's new.](#)

## Preview



Orientation:  Size:  x   IE

## CSS

```
background: rgb(30,87,153); /* old browsers */
background: -moz-linear-gradient(left,
  rgba(30,87,153,1) 0%, rgba(41,137,216,1) 50%,
  rgba(32,124,202,1) 51%, rgba(125,185,232,1)
  100%); /* firefox */
background: -webkit-gradient(linear, left top,
  right top, color-stop(0%,rgba(30,87,153,1)),
  color-stop(50%,rgba(41,137,216,1)), color-
  stop(51%,rgba(32,124,202,1)), color-
  stop(100%,rgba(125,185,232,1))); /* webkit */
filter: progid:DXImageTransform.Microsoft.gradient(
  startColorstr='#1E5799',
  endColorstr='#7db9e8',GradientType=1 ); /* ie */
background: -o-linear-gradient(left,
  rgba(30,87,153,1) 0%,rgba(41,137,216,1)
  50%,rgba(32,124,202,1) 51%,rgba(125,185,232,1)
  100%); /* opera */
```

Color format:

## Share

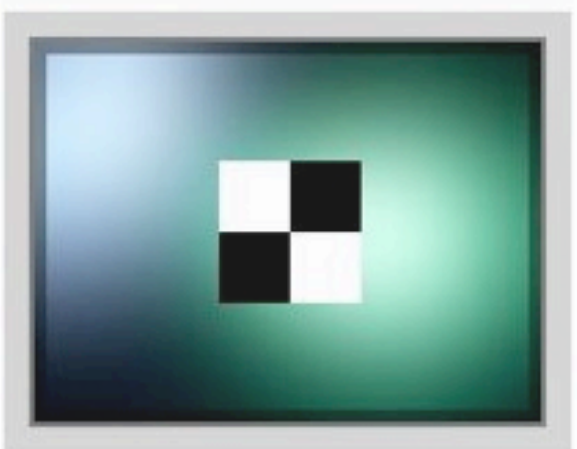
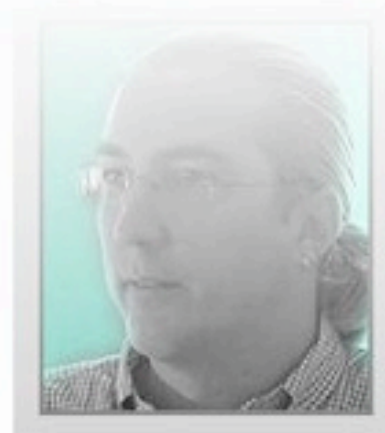
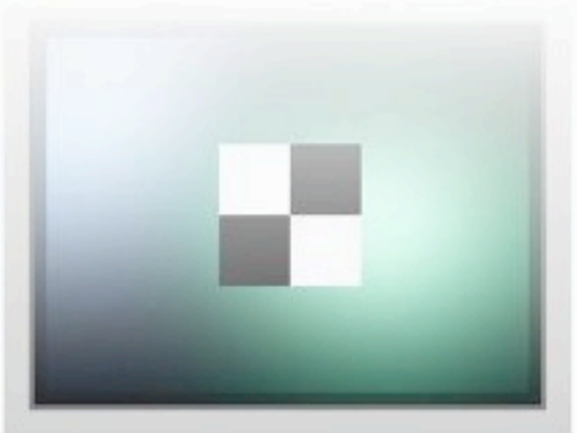
163

1K

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

# GRADIENT MASKS





# GRADIENT MASKS

```
img {  
display: block;  
float: left;  
margin-right: 20px;  
border: 10px solid #ccc;  
padding: 2px;  
background-color: #666;  
-webkit-mask-image:  
  -webkit-gradient(linear, left bottom, left top,  
  from(rgba(0,0,0,1)), to(rgba(0,0,0,0)));  
}
```

Only works in Safari.



**ZOD URL**  
 KNEEL BEFORE SHORTER LINKS

**SHORTENING LINKS**  
 URL shortening is a technique on the World Wide Web where ZodURL makes a web page available under a very short URL in addition to the original address. This technique makes it possible to avoid URL distortion when emailing, tweeting, or even reading them over quaint telephony.

Example of transparent gradients, border image, PNG8, text-shadow, box-shadow

# TRANSFORM & ANIMATE



# TRANSFORM



Navigation icons: Forward, Reload, Stop, Home, Print, 1Password. Address bar: file:///Users/christopher/Documents/Work/O'R. Tabs: Christopher Schmitt : Designer, Technology Books, Tech Confer...



# TRANSFORM

```
img+img {  
  transform: rotate(270deg);  
  -webkit-transform: rotate(270deg);  
  -moz-transform: rotate(270deg);  
  filter: progid:DXImageTransform.Microsoft.BasicImage(rotation=3);  
}
```

# TRANSFORM <IE9 CONVERSION

Degree Rotation	BasicImage filter value
<b>0</b>	<b>0</b>
<b>90</b>	<b>1</b>
<b>180</b>	<b>2</b>
<b>270</b>	<b>3</b>

# ANIMATING LINKS





Site navigation:

Site navigation:

Site navigation:

- Home
- About
- Archives
- Writing
  - Releasing CSS
  - CSS Cookbook
- Speaking
- Contact

- Home
- About
- Archives
- Writing
  - Releasing CSS
  - CSS Cookbook
- Speaking
- Contact

- Home
- About
- Archives
- Writing
  - Re
  - CS
- Speaking
- Contact

## Li European Lingues

## Li European Lingues

## Li Europa

Sed sed nisi. Morbi gravida, odio :  
posuere tortor elit eget est. Nulla li  
ultricies quis, rutrum dignissim, fe

Sed sed nisi. Morbi gravida, odio :  
posuere tortor elit eget est. Nulla li  
ultricies quis, rutrum dignissim, fe

Sed sed nisi. M  
posuere tortor e  
ultricies quis, ru

# ANIMATING LINKS

```
#navsite a {  
-webkit-transition-timing-function: linear;  
-webkit-transition-duration: .66s;  
-webkit-transition-property: background-color;  
}
```

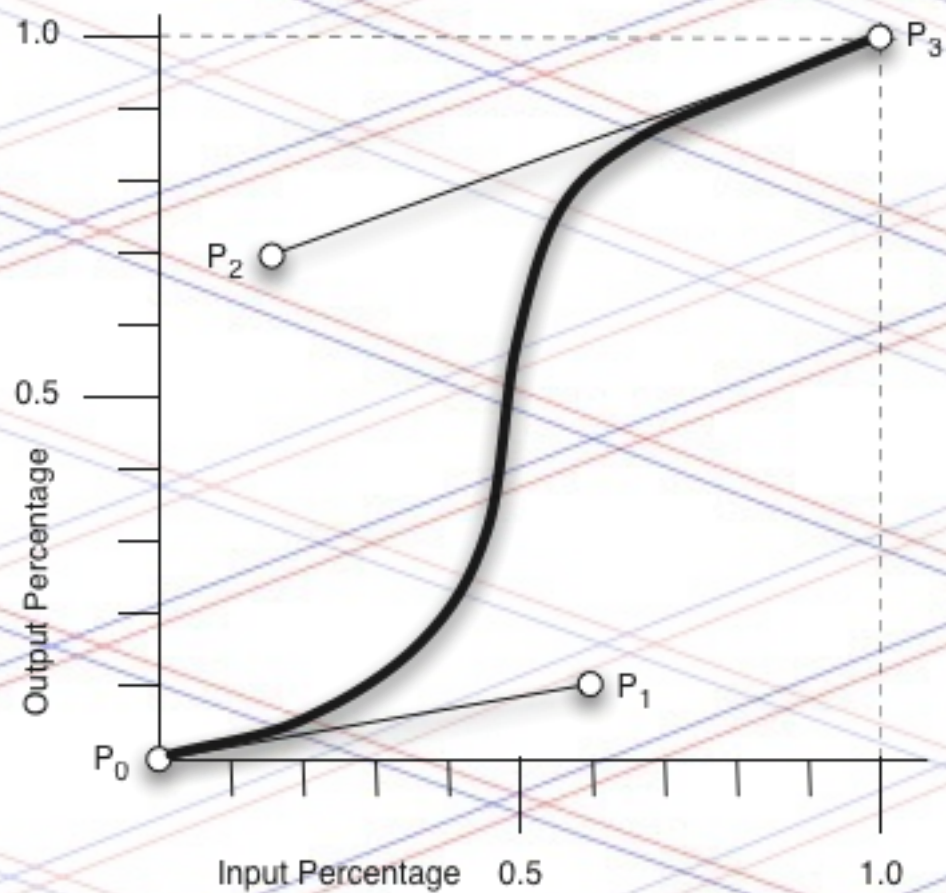
**Style rollover links normally.**

# LESSONS LEARNED

- **The transitioning-timing-function states the type of animation the effect is going to take.**
  - **In this example, the value is set to linear, which means each frame of the animation length takes the same amount of time.**
  - **Other values for transitioning-timing-function include ease, ease-in, ease-out, and cubic-bezier (x1, y1, x2, y2).**

# CHARACTERISTICS OF

<https://www3.oca.com/mon/#/main/mg-fund>



# CUBIC BEZIER CURVE

**cubic-bezier(x1, y1, x2, y2)**

- **The first two values of cubic-bezier represent the transition on a curve, as shown in the figure.**
- **Values for y1 and y2 represent the start and end of the transition and are always equal to the values of 0.0 and 1.0, respectively.**
- **The speed with which the transition takes hold is represented by the values x1 and x2. The greater the value for x1 and x2, the slower the transition occurs.**

# CUBIC BEZIER CURVE

`cubic-bezier(0.42, 0, 1.0, 1)`

- **A value of ease-in starts the transition at a slow speed and then speeds up. This value is equivalent to `cubic-bezier(0.42, 0, 1.0, 1)`.**
- **The ease-out value starts the transition at a fast speed and then slows down. This value is equivalent to `cubic-bezier(0.42, 0, 1.0, 1)`.**
- **The ease value is equivalent to `cubic-bezier(0.25, 0.1, 0.25, 1.0)`.**

# DURATION & DELAY

- **The *transition-duration* property's default value is 0.**
  - **Any negative value is treated as though it's zero.**
  - **Units the value may take include, but are not limited to, "s" for seconds and "ms" for milliseconds.**
- **The *transition-delay* property sets the amount of time before a transition starts.**

# TRANSITION PROPERTY

- **The *transition-property* property defines which CSS visual property the transition is applied to.**
- **In the animated link example, the transition is applied to the background color.**

# SHORTHAND PROPERTY

- **You can write the properties of the transition effect in one value for the transition property:**

```
#navsite a {  
  -webkit-transition: background-color .66s linear;  
}
```

# Ceaser

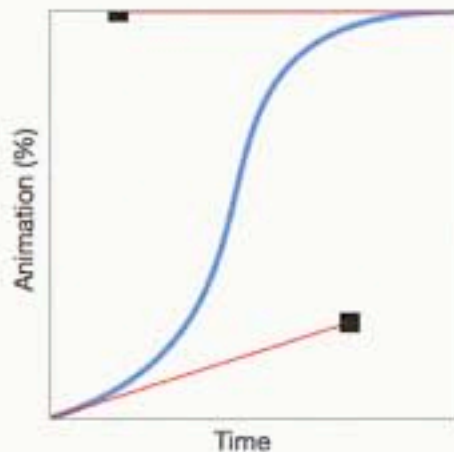
## CSS EASING ANIMATION TOOL



1. Choose an easing type and test it out with a few effects.
2. If you don't quite like the easing, grab a handle and fix it.
3. When you're happy, snag your code and off you go.

Now that we can use CSS transitions in all the modern browsers, let's make them pretty. I love the classic Penner equations with Flash and jQuery, so I included most of those. If you're anything like me\*, you probably thought this about the default easing options: "ease-in, ease-out...yawn." The mysterious cubic-bezier has a lot of potential, but was cumbersome to use. Until now. Also, touch-device friendly!

\*If you are anything like me, we should be friends [@matthewlein](#)



Easing:

Duration:

Effect:

Left

Width

Height

Opacity



<http://matthewlein.com/ceaser/>

### Code snippets, short and long-hand:

```
-webkit-transition: all 1000ms cubic-bezier(0.735, 0.235, 0.165, 1.000);
-moz-transition: all 1000ms cubic-bezier(0.735, 0.235, 0.165, 1.000);
-o-transition: all 1000ms cubic-bezier(0.735, 0.235, 0.165, 1.000);
transition: all 1000ms cubic-bezier(0.735, 0.235, 0.165, 1.000); /* custom */
```

# COMPLEX ANIMATING LINKS



com/photos/kurafire  
e photos I take

com/photos/kurafire  
e photos I take

com/photos/kurafire  
e photos I take

com/kurafire  
up with what I'm doing

com/kurafire  
up with what I'm doing

com/kurafire  
up with what I'm doing

com/kurafire  
ets of my life in 24 fps

com/kurafire  
ets of my life in 24 fps

com/kurafire  
ets of my life in 24 fps

in.com/in/kurafire  
siness connections

in.com/in/kurafire  
siness connections

in.com/in/kurafire  
siness connections

ook.com/farukates

ook.com/farukates

ook.com/farukates

# COMPLEX ANIMATED LINKS

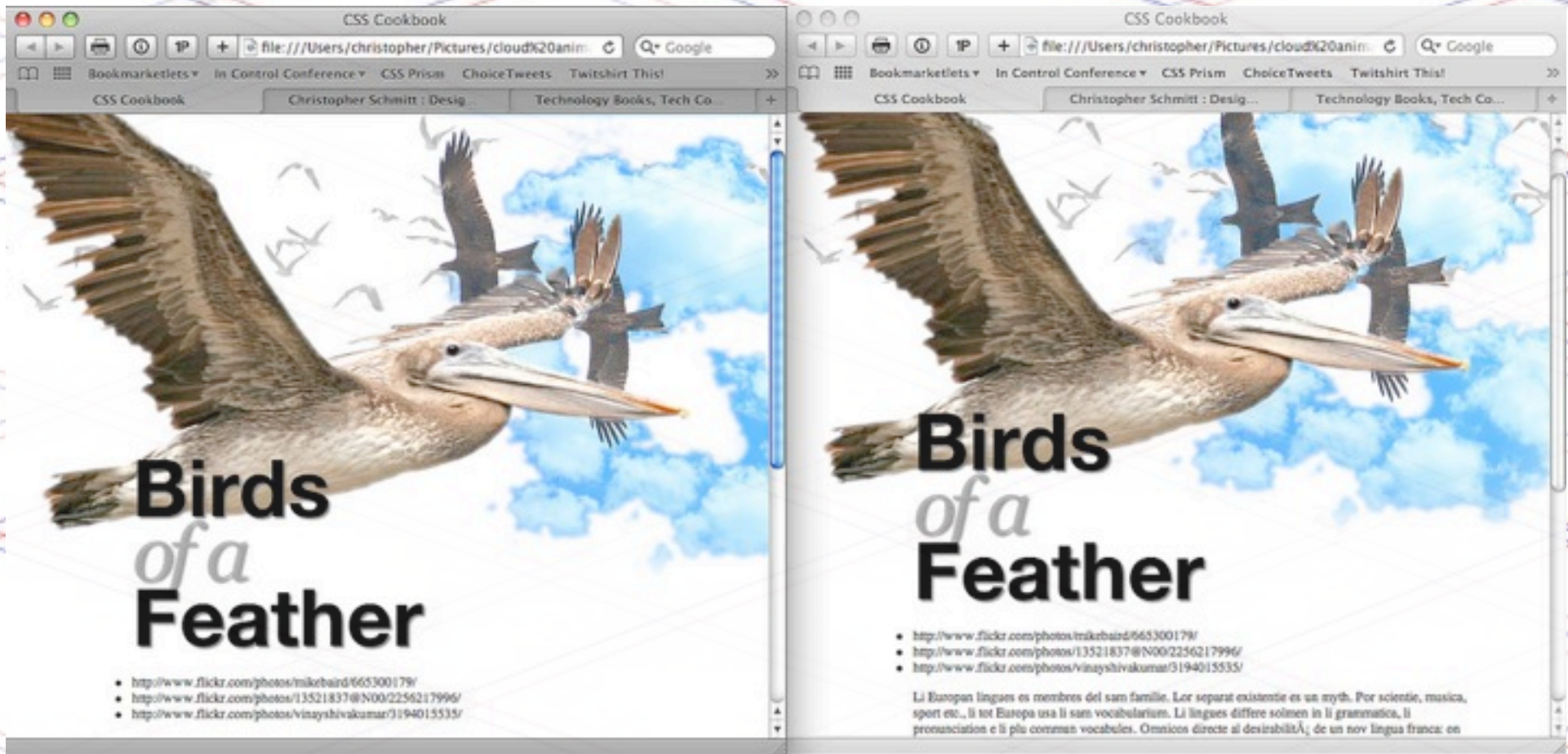
- Web designer Faruk Ateş's personal site (see <http://farukat.es/>) uses the *transition* property to change the color of the element.
- As well as the color, width, box shadow, text shadow, *and* opacity.

# COMPLEX ANIMATED LINKS

```
#web20 li a {  
  text-shadow: rgba(0,0,0, 0) 1px 1px 2px;  
  -moz-box-shadow: rgba(0,0,0, 0) 2px 2px 2px;  
  -webkit-box-shadow: rgba(0,0,0, 0) 2px 2px 2px;  
  -moz-border-radius-topright: 31px;  
  -moz-border-radius-bottomright: 31px;  
  -webkit-border-top-right-radius: 31px;  
  -webkit-border-bottom-right-radius: 31px;  
  -webkit-transition: background-color .25s ease,  
  color .5s ease,  
  width .2s ease-out,  
  -webkit-box-shadow .25s ease,  
  text-shadow .2s ease,  
  opacity .2s ease;  
}
```

# ANIMATING ELEMENTS





# ANIMATING ELEMENTS

```
<body>
```

```
<div id="clouds I"></div>
```

```
[...]
```

```
</body>
```

# ANIMATING ELEMENTS

```
#clouds1 {  
width: 627px;  
height: 410px;  
position: absolute;  
right: -300px;  
top: 0;  
background-image: url(clouds.png);  
}
```

# ANIMATING ELEMENTS

```
@-webkit-keyframes "clouds" {  
  from {  
    right: 0px;  
  }  
  to {  
    right: 100px;  
  }  
}
```

# ANIMATING ELEMENTS

```
#clouds1 {  
width: 627px;  
height: 410px;  
position: absolute;  
right: -300px;  
top: 0;  
background-image: url(clouds.png);  
-webkit-transform: translate(300px, 0px);  
-webkit-animation-name: "clouds";  
-webkit-animation-duration: 10s;  
-webkit-animation-iteration-count: 10;  
-webkit-animation-direction: alternate;  
}
```

# ANIMATING ELEMENTS

- **Animations can take on more than one property (think offset properties and even opacity for some interesting effects).**
- **The *animation-transform* property is used to associate which keyframe rule is used (“clouds”).**
- **The *animation-duration* is set for how long the effect should occur. (Negative values are treated as zero.)**
- **The *animation-iteration-count* tells how many times it should happen. For constant looping, use value of “infinite”.**
- **Use *animation-direction* property set to normal loops animation, while “alternate” creates a more seamless presentation (back and forth).**

# RESOURCES

- “When Can I Use...”  
<http://a.deveria.com/caniuse/>
- Modernizr  
<http://www.modernizr.com/>
- *CSS Cookbook, 3rd Edition*  
<http://oreilly.com/catalog/9780596155940>
- CSS3 Sandbox  
<http://westciv.com/tools/gradients/>
- “10 Amazing Examples of Innovative CSS3 Animation”  
<http://designshack.co.uk/articles/css/10-amazing-examples-of-innovative-css3-animation>



**THANK YOU!**

Christopher Schmitt

[schmitt@heatvision.com](mailto:schmitt@heatvision.com)

<http://twitter.com/teleject>

## Creative Commons Citations:

<http://www.flickr.com/photos/camkage/3682824473/>

<http://www.flickr.com/photos/dabiri/2538913191/>

<http://en.wikipedia.org/wiki/>

[File:Bridge across continents iceland.jpg](#)

[http://en.wikipedia.org/wiki/File:Plates\\_tect2\\_en.svg](http://en.wikipedia.org/wiki/File:Plates_tect2_en.svg)