

# Advanced Web Development: Media-Specific Styles

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# Overview

You've been using this code

## HTML 4.01

```
<link rel="stylesheet" type="text/css"  
      href="main.css">
```

## HTML5

```
<link rel="stylesheet" href="main.css">
```

Actually,

```
<link rel="stylesheet" href="main.css">
```

is the same as

```
<link rel="stylesheet" href="main.css"  
      media="all">
```

# 10 defined media types:

all  
aural  
braille  
embossed  
handheld  
print  
projection  
screen  
tty  
tv

all

All media type devices

aural

Speech & sound synthesizers

braille

Braille tactile feedback devices

embossed

Paged braille printers

handheld

Small or handheld devices

print

Printers

projection

Projected presentations, like slides

screen

Computer screens

`tty`

Media using a  
fixed-pitch character grid,  
like teletypes and terminals

`tv`

Television-type devices



```
<style type="text/css">
@media print {
  body {
    font-size: 10pt; background: white;
  }
}

@media screen {
  body {
    font-size: 1em; background: black;
  }
}
</style>
```

```
<head>  
<link rel="stylesheet" href="screen.css"  
media="screen">  
  
<link rel="stylesheet" href="print.css"  
media="print,projection">  
</head>
```

# Media Styles in Action

## Lorem ipsum, dolor sit amet

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```
/* screen display styles */  
  
body {color: silver; background: black;}  
  
a:link {color: yellow; background: #333;  
text-decoration: none;}  
  
a:visited {color: white; background: #333;  
text-decoration: none;}  
  
h1, h2, h3 {color: #CCC; background:  
black; padding-bottom: 1px; border-bottom:  
1px solid gray;}
```

```
/* print styles */  
  
body {color: black; background: white;}  
  
a:link, a:visited {background: white;  
color: black; text-decoration: underline;  
font-weight: bold;}  
  
h1, h2, h3 {background: white; color:  
black; padding-bottom: 1px; border-bottom:  
1px solid gray;}  
  
div.adbanner {display: none;}
```

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A hint:

To test your print styles,  
use Print Preview  
instead of actually printing

# Common Print Styles

```
body {  
  color: black;  
  background-color: white;  
  font-size: 12pt;  
}
```

```
a:link, a:visited {  
  color: black;  
  text-decoration: underline;  
}
```

```
a:link:after, a:visited:after {  
  color: black;  
  text-decoration: underline;  
  content: " (" attr(href) ") ";  
}
```

```
h1, h2, h3 {  
  color: black;  
  padding-bottom: 1px;  
  border-bottom: 1px solid black;  
}
```

```
.adbanner, aside, nav {  
  display: none;  
}
```



# Switching Media Styles

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http://meyerweb.com/eric/css/examples/themes/ mozex

Home Smart Places OS Admin RSG WS Social lets Google G G-RSG I8tr XRAY Design Ffox3

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## Eric

Principal consultant for [Complex Spiral Consulting](#), Eric has been called "an internationally recognized expert on the subjects of HTML and [Cascading Style Sheets \(CSS\)](#)," but then he's also been called a "[techno-fascist](#)." Eric does as much [writing](#) as he can without burning out, and also does his best to keep up with CSS support in popular Web browsers. If you're interested in early Twentieth Century jazz and swing, you can catch his [weekly radio show](#) over the Internet. When not otherwise busy, Eric is usually bothering Kat in some fashion.



## Kat

A Certified Nurse-Midwife, Kat currently works as the Eastern Cleveland regional coordinator for [Birth and Beyond Doula Services](#), and as the Women's Health Nurse Practitioner at [Oberlin College](#) for [Family Planning Services of Lorain County](#). She is also interested in the role that Kangaroo Care (KC) can play in promoting breastfeeding in newborns. Her work in this area has led to the publication of two professional articles and a poster presentation at a national conference. In her precious few spare moments, Kat does her best to spoil her cat, Gravity, and to keep Eric's ego in check—which, let's face it, can be a full time job.



## Drifting Thoughts 1

### Thoughts From Eric

Saturday, 17 January 2004

It snowed all day today. For the most part, the flakes drifted gently and steadily downward, but every now and then a burst of wind and snow would blur everything around the house. At those moments, white streamers of blown snow curled from the edges of rooftops all up and down the street. It was a beautiful day, and every time I looked outside I couldn't imagine living anywhere that such a sight would be impossible. To me, winter is profound in a way no other season quite manages, and I'm not sure that I could be truly happy without it.

But of course the price of such beauty is the clearing of driveway and sidewalk, and just as twilight approached the snowfall tapered off, so I went out, shovel in hand. The fading light, as filtered through the overcast skies, was a pale, indefinable

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## presentation

- Eos
- Aware
- Darkfall
- Lunar Sky
- Matrix
- Mondrian
- Natural
- Classic MW**
- void(style);

## other thoughts

XFN FRIENDLY

Done scott@granneman.com

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## Thoughts From Eric

**Drifting Thoughts** 1 Saturday, 17 January 2004

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**Other Thoughts**

**XFN FRIENDLY**

- The Daily Report
- Mezzoblue
- tantek/log

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**Kat**

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**Thoughts From Eric**

**Drifting Thoughts** 1

Saturday, 17 January 2004

It snowed all day today. For the most part, the flakes drifted gently and steadily downward, but every now and

scott@granneman.com

meyerweb.com (theme examples) - Mozilla Firefox 3 Beta 3 (Build 2008020511)

http://meyerweb.com/eric/css/examples/themes/ mozex

Home Smart Places OS Admin RSG WS Social lets Google G G-RSG I8tr XRAY Design Ffox3

woork: ... woork: ... Custom... Welcom... OkCupi... Visible ... The Fea... The Tor... Careers... meye...

# [meyerweb.com](http://meyerweb.com)

Skip to: [site navigation/presentation](#)  
Skip to: [Thoughts From Eric](#)


This page exists as a historical reference, and for those wishing to learn more about applying multiple themes to the same document. Links may be broken, and those that work will definitely point to pages that look nothing like this one. The themes, as well as the JavaScript that drives the switcher, are all located in the [ui directory](#). Some images are copyrighted; see the CSS files for notes on which.

## [Eric](#)



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## [Kat](#)



Done scott@granneman.com



# Methods for switching styles:

- ✓ Manual switching
- ✓ Switching automatically when printed
- ✓ Print-friendly buttons

# Manual switching

Users use View > Page Style menus

One style is *preferred*

Others styles are *alternates*

# Preferred

```
<link rel="stylesheet"
href="ui/eos.css" title="Eos">
```

# Alternates

```
<link rel="alternate stylesheet"
href="ui/lunarsky.css" title="Lunar Sky">
```

```
<link rel="alternate stylesheet"
href="ui/matrix.css" title="Matrix">
```

```

<!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.0 Transitional//EN"
"http://www.w3.org/TR/REC-html40/loose.dtd">
<html>
<head profile="http://gmpg.org/xfn/1">
<title>meyerweb.com (theme examples)</title>
<meta http-equiv="Content-Type" content="text/html; charset=iso-8859-1">
<link rel="home" href="/" title="Home" >
<link rel="alternate" type="application/rss+xml" title="meyerweb.com RSS0.91 Feed" href="http://www.meyerweb.com/eric/thoughts/rss091.xml" >
<link rel="alternate" type="application/rss+xml" title="meyerweb.com RSS2.0 Feed" href="http://www.meyerweb.com/eric/thoughts/rss20.xml" >
<link rel="alternate stylesheet" href="ui/aware.css" type="text/css" title="Aware" media="screen, projection">
<link rel="alternate stylesheet" href="ui/classic.css" type="text/css" title="Classic" media="screen, projection">
<link rel="alternate stylesheet" href="ui/darkfall.css" type="text/css" title="Darkfall" media="screen, projection">
<link rel="stylesheet" href="ui/eos.css" type="text/css" title="Eos" media="screen, projection">
<link rel="alternate stylesheet" href="ui/lunarsky.css" type="text/css" title="Lunar Sky" media="screen, projection">
<link rel="alternate stylesheet" href="ui/matrix.css" type="text/css" title="Matrix" media="screen, projection">
<link rel="alternate stylesheet" href="ui/mondrian.css" type="text/css" title="Mondrian" media="screen, projection">
<link rel="alternate stylesheet" href="ui/natural.css" type="text/css" title="Natural" media="screen, projection">
<link rel="stylesheet" href="ui/basic-print.css" type="text/css" media="print" title="Print styles">
<script type="text/javascript" src="ui/stylesheet.js"></script>
<style type="text/css">
#warning {border: 0.25em solid red; background: yellow; color: black; padding: 0.75em;}
</style>
</head>
<body id="www-meyerweb-com" class="hpg">
<div id="sitemast">
<h1><a href="http://www.meyerweb.com/"><span>m e y e r w e b </span> . c o m</a></h1>
</div>

<div id="main">
<div class="skipper">Skip to: <a href="#navhead">site navigation/presentation</a></div>
<div class="skipper">Skip to: <a href="#thoughts">Thoughts From Eric</a></div>

<p id="warning">
This page exists as a historical reference, and for those wishing to learn more about applying multiple themes to the same document. Lin
</p>

<h2><a href="/eric/" class="hlinks" title="Eric's Page">Eric</a>

```

Line 10, Col 1

- Toolbars
- ✓ Status Bar
- Sidebar
- Stop
- Reload
- Zoom
- Page Style
- Character Encoding
- Page Source

- No Style
- Aware
- Classic
- ✓ Darkfall
- Eos
- Lunar Sky
- Matrix
- Mondrian
- Natural

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**Navigation**

- Site home
- Eric**
- Consulting
- FAQ
- Speaking
- Reading
- Writing
- Books
- CSS info
- css/edge
- Kat**
- Miscellaneous
- Presentation**
- Eos
- Aware
- Darkfall
- Lunar Sky
- Matrix
- Mondrian
- Natural
- Classic MW
- void(style);

### Thoughts From Eric

#### Drifting Thoughts

Saturday, 17 January 2004

It snowed all day today. For the most part, the flakes drifted gently and steadily downward, but every now

Problem #1 with this method:  
Users have to know to do it

Problem #2 with this method:  
Only works in Firefox

meyerweb.com (theme examples) – Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Home Search Favorites Media History Print

Address  Go Links


View menu:

- Toolbars
- ✓ Status Bar
- Explorer Bar
- Go To
- Stop Esc
- Refresh F5
- Text Size
- Encoding
- Source
- Privacy Report...
- Full Screen F11

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eb.com

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**Presentation**



Switching  
automatically  
when printed

Advantages

Automatic

Requires no extra work  
for web developers

# Disadvantages

Users don't know about it  
until they print  
or try Print Preview

# Print-friendly buttons

Legal Docket :: ACLU of New Jersey - Mozilla Firefox 3 Beta 3 (Build 2008020511)

http://www.aclu-nj.org/legal/legaldocket/

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Custom... Welcom... OkCupi... Visible... The Fea... The Tor... Careers... Lega... Slashdo... Legal D...

ACLU  
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Defending Our Most Basic Freedoms

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**LEGAL DOCKET**

This docket describes the numerous and varied civil liberties issues which the American Civil Liberties Union of New Jersey has litigated during the past year. Cases we've resolved are located in our [Closed Case Archive](#).

**CRIMINAL JUSTICE**

- > [A.A., et al. v. Monmouth County Probation](#)

**DISCRIMINATION**

- > [Nevius v. New Jersey State Police](#)
- > [Yorker, et al. v. Township of Manalapan, et al.](#)
- > [Liu, et al. v. Oriental Buffet, et al.](#)

**ELECTIONS & VOTING**

- > [In re: Attorney General Directive on Exit Polling](#)
- > [Galaxy Towers Concerned Unit Owners Group v. Galaxy Towers](#)
- > [Gusciora, et al. v. Codey, et al.](#)

**FREE SPEECH**

- > [POP v. City of Newark](#)
- > [Wohltman v. The City of Newark](#)
- > [Lima v. Newark Police Department](#)
- > [In re: Attorney General Directive on Exit Polling](#)

Done


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Legal Docket :: ACLU of New Jersey - Mozilla Firefox 3 Beta 3 (Build 2008020511)

http://www.aclu-nj.org/legal/legaldocket/

Home Smart Places OS Admin RSG WS Social lets Google G G-RSG I8tr XRAY Design Ffox3

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### Elections & Voting

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### Free Speech

- [POP v. City of Newark](#)
- [Wohltman v. The City of Newark](#)
- [Lima v. Newark Police Department](#)
- [In re: Attorney General Directive on Exit Polling](#)
- [CATA v. Bridgeton](#)

Done scott@granneman.com

# Creating a Print-Friendly Page with CSS & JavaScript: The McVicar Method

Provides print CSS if the user  
clicks the browser's Print button  
or uses the Print Friendly link

[www.granneman.com/  
webdev/coding/css/  
printfriendlythemcvicarmet.htm](http://www.granneman.com/webdev/coding/css/printfriendlythemcvicarmet.htm)

# Code to switch styles with JavaScript

Same as McVicar method,  
except that a Print dialog box  
does not automatically open  
when the Print Friendly page opens

[www.granneman.com/  
downloads/  
SwitchStylesNoAutoPrint.zip](http://www.granneman.com/downloads/SwitchStylesNoAutoPrint.zip)



Thank you!

[scott@granneman.com](mailto:scott@granneman.com)

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

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

[@scottgranneman](#)

# Advanced Web Development: Media-Specific Styles

Washington University in St. Louis  
Webster University

R. Scott Granneman

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Last updated 20131120

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