

Advanced Web Development: Media-Specific Styles

Washington University in St. Louis
Webster University

R. Scott Granneman

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Overview

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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">
```

3

4

Actually,

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

is the same as

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

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10 defined media types:

```
all
aural
braille
embossed
handheld
print
projection
screen
tty
tv
```

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```
all
```

All media type devices

```
aural
```

Speech & sound synthesizers

```
braille
```

Braille tactile feedback devices

```
embossed
```

Paged braille printers

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`handheld`

Small or handheld devices

`print`

Printers

`projection`

Projected presentations, like slides

`screen`

Computer screens

8

`tty`

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

`tv`

Television-type devices

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

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

10

```
<head>
<link rel="stylesheet" href="screen.css"
media="screen">

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

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Media Styles in Action

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WWW.WEBSTANDARDS.ORG

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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

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Common Print Styles

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

21

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

22

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

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

24

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

Switching Media Styles

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Eric Meyer's old site: <http://www.meyerweb.com/eric/css/examples/themes/>



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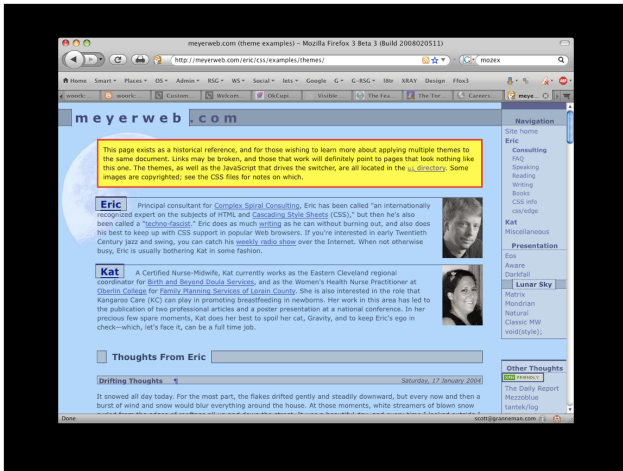
Eric Meyer's old site: <http://www.meyerweb.com/eric/css/examples/themes/>





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Eric Meyer's old site: <http://www.meyerweb.com/eric/css/examples/themes/>



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Eric Meyer's old site: <http://www.meyerweb.com/eric/css/examples/themes/>



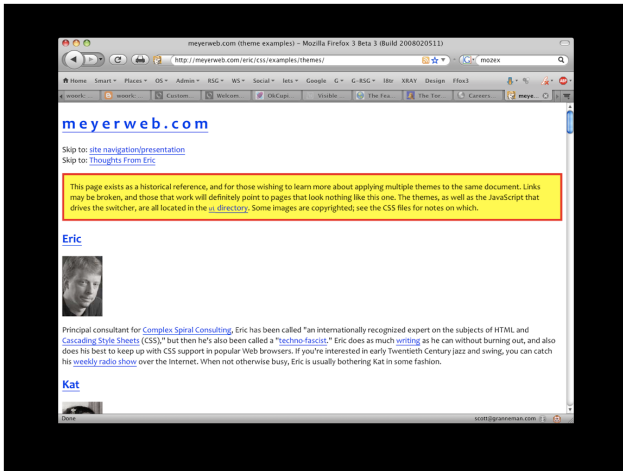
30

Eric Meyer's old site: <http://www.meyerweb.com/eric/css/examples/themes/>



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Eric Meyer's old site: <http://www.meyerweb.com/eric/css/examples/themes/>



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Eric Meyer's old site: <http://www.meyerweb.com/eric/css/examples/themes/>

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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*

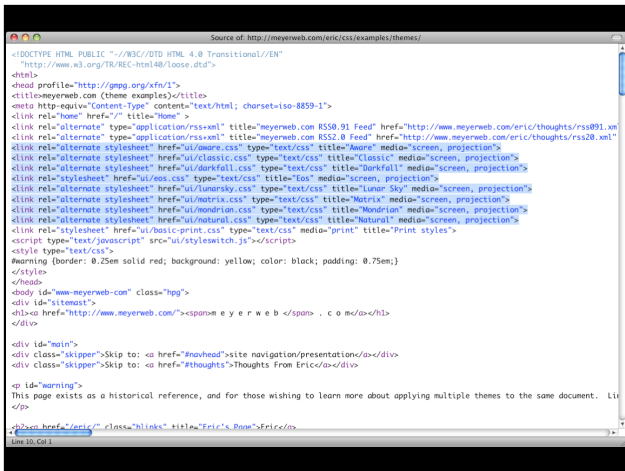
Preferred

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

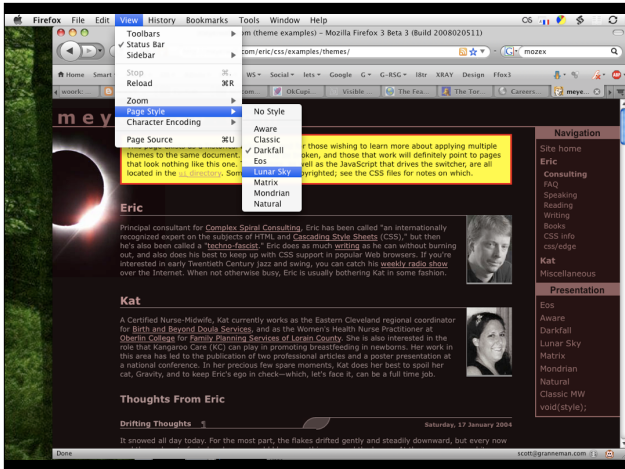
Alternates

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

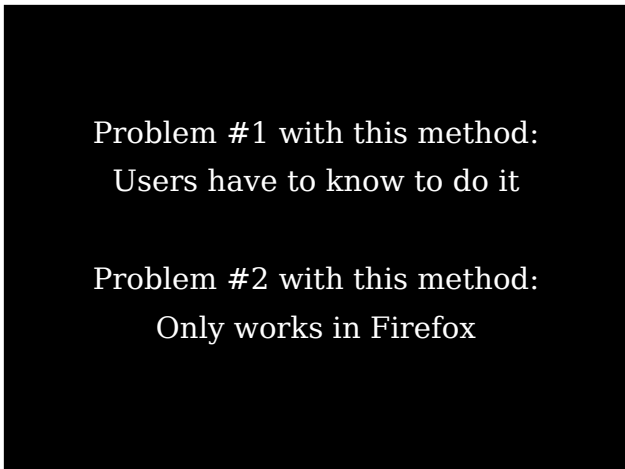
```
<link rel="alternate stylesheet"
href="ui/matrix.css" title="Matrix">
```



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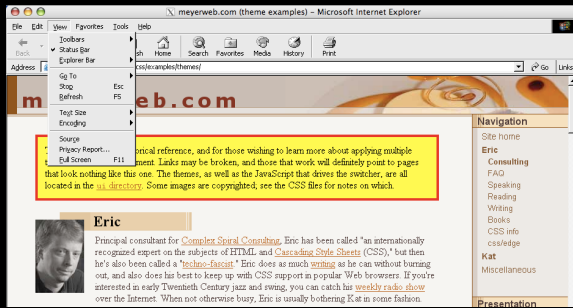
Problem #1 with this method:

- Users have to know to do it

Problem #2 with this method:

- Only works in Firefox

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Switching automatically when printed

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Advantages
Automatic
Requires no extra work
for web developers

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

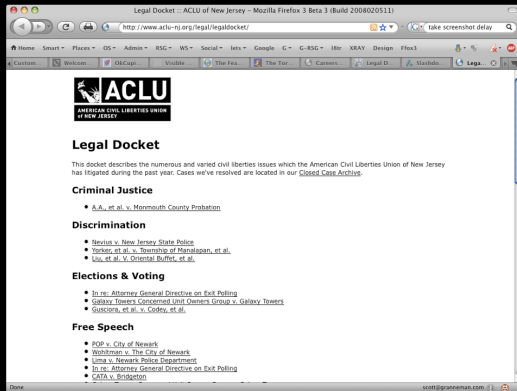
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Print-friendly
buttons

45



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

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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

www.granneman.com

ChainsawOnATireSwing.com

@scottgranneman

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Washington University in St. Louis
Webster University

R. Scott Granneman

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Questions? Email scott@granneman.com