

The Future of CSS

with Andy Budd
of Clearleft

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Quick History

- First CSS proposal by Hakon Lie in Oct 94
- W3C established and CSS workshop run in 95
- CSS1 becomes a recommendation in Dec 96
- CSS working group established in 97
- CSS2 becomes a recommendation in May 98
- Drafts of first 3 CSS3 modules published in June 99

How CSS3 is Organised

- Advanced layout
- Aural Style Sheets
- Backgrounds and Borders
- Basic User Interfaces
- Box Model
- Cascading and Inheritance
- Color
- Fonts
- Generated Content for Paged Media
- Generated and Replaced Content
- Hyperlink Presentation
- Line Layout
- Lists
- Maths
- Multi Column Layout
- Namespaces
- Object Model
- Paged Media
- Positioning
- Presentation Levels
- Reader Media Types
- Ruby
- Scoping
- Speech
- Syntax
- Tables
- Text
- Text Layout
- Values and Units
- Web Fonts

Say Hello to the CSS Working Group



CSS Working Group

- Adobe Systems Inc.
- Antenna House, Inc.
- AOL LLC
- Apple, Inc.
- Disruptive Innovations
- Google, Inc.
- HP
- IBM Corporation
- Indus Net Technologies
- INNOVIMAX
- International Webmasters Association / HTML Writers Guild
- Microsoft Corporation
- Mozilla Foundation
- Openwave Systems Inc.
- Opera Software
- Sun Microsystems, Inc.
- Universidad de Oviedo
- W3C Invited Experts
- W3C/ERCIM

Current State

- Ruby - CR
- Media Queries - CR
- Color - CR
- User Interface - CR
- TV Profile - CR
- Selectors - LC
- Fonts - LC
- Pages Media - LC
- Print Profile - LC
- Web Fonts - LC

Why is it Taking so Long?

- Problems when testing
- Backwards compatibility
- Problems with browser implementation
- Giving priority to the wrong areas
- Getting bogged down with trivial/irrelevant issues
- Companies with political/business motivations
- Little input from authors/designers

Current Priority

- CSS2.1 (finishing touches)
- Multi-columns
- Paged Media
- Generated Content for Paged Media
- Advanced Layout
- Selectors
- Text and Text Layout
- Grid Positioning

My Priority

- CSS2.1
- Selectors
- Backgrounds and Borders
- Advanced Layout
- Multi-columns
- Values

CSS3 You Can Use Now

CSS3 Attribute Selectors

```
a[href^="mailto:"] {  
    background-image: url(email.gif);  
}
```

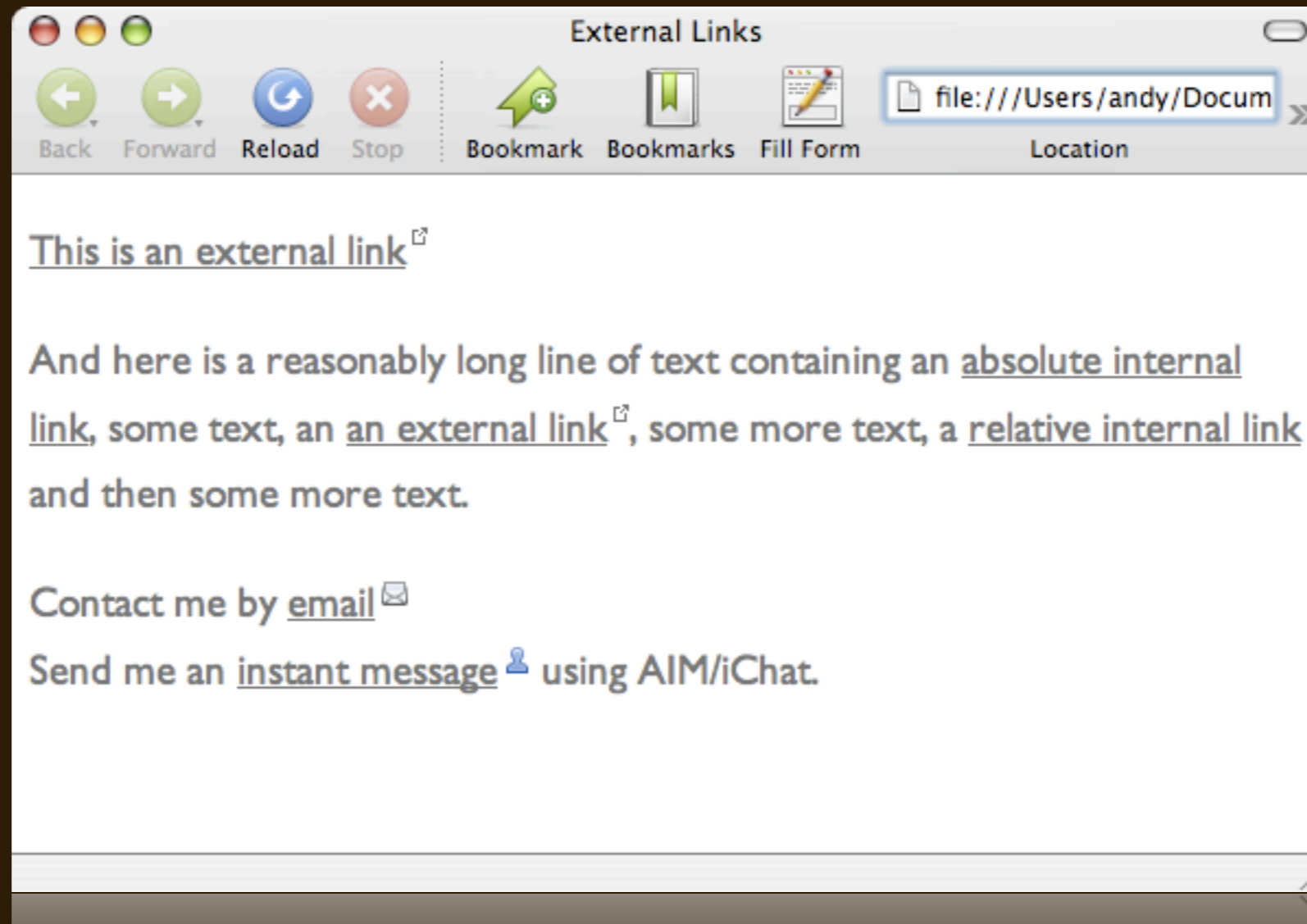
```
a[href$=".pdf"] {  
    background-image: url(pdf.gif);  
}
```

Styling External Links

```
a[href^="http:"] {  
    background: url(images/externalLink.gif) no-repeat  
    right top;  
    padding-right: 10px;  
}
```

```
a[href^="http://www.yoursite.com"],  
a[href^="http://yoursite.com"] {  
    background-image: none;  
    padding-right: 0;  
}
```

The Result



Interesting CSS3 Selectors

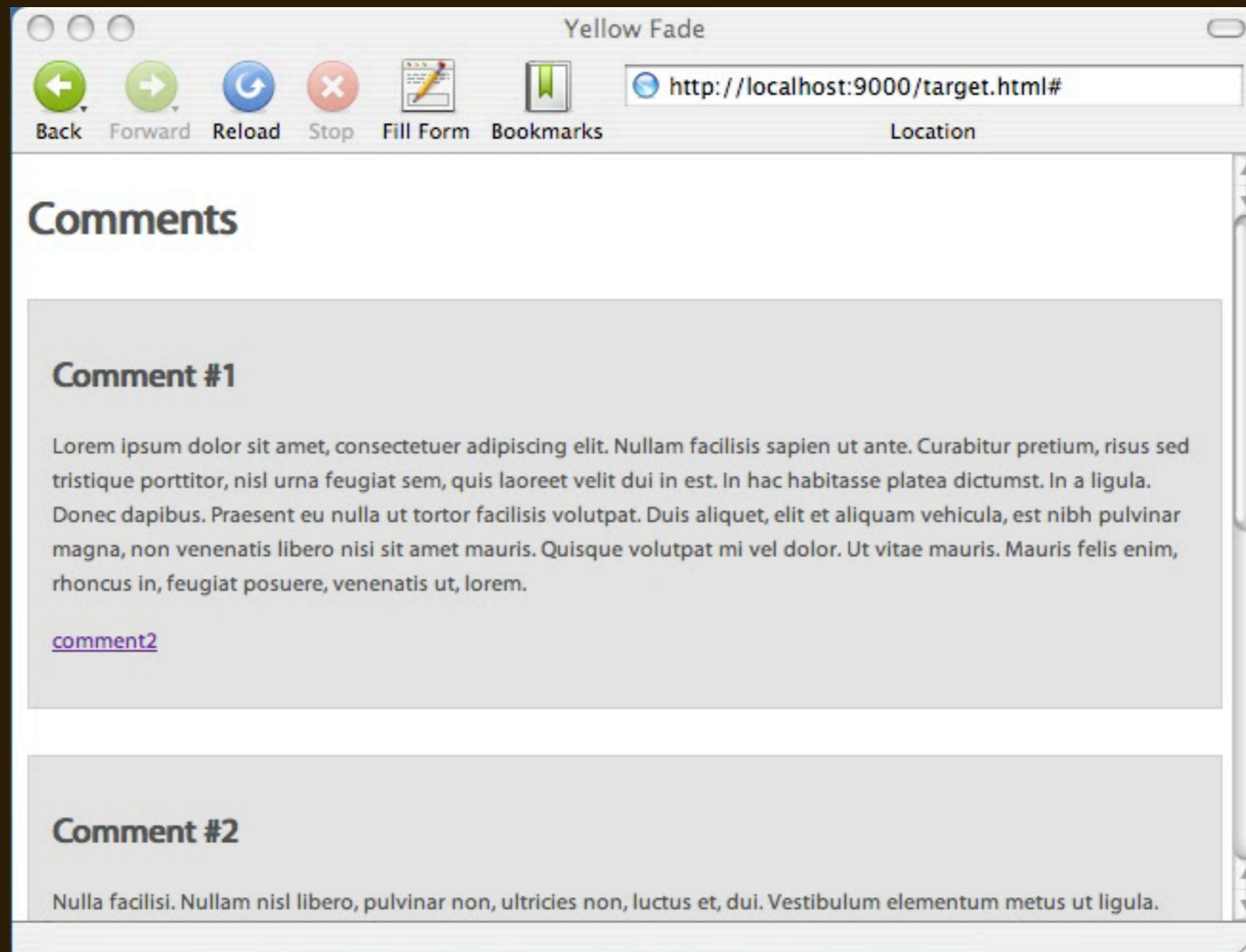
```
::selection { background: yellow;} /* makes  
selected text yellow */
```

```
#menu a:after { content:" \00BB";} /* adds a  
“»” symbol after every link in the menu */
```

```
.comment:target { background: yellow;} /* makes  
the comment div yellow when targeted */
```



:target Example



Interesting CSS3 Selectors

```
input:enabled { background: #999;} /* makes  
enabled inputs dark grey */
```

```
input:disabled { background: #ccc;} /* makes  
disabled inputs light grey */
```

```
input:checked { background: #39c;} /* makes  
checked inputs blue */
```

Interesting CSS3 Selectors

```
#menu li:last-child { border-bottom: none; } /*  
removes the bottom border on the last li */
```

```
tr:nth-child(odd) { color:blue; } /* makes every  
other table row blue */
```

Rounded Corner Boxes

```
<div class="box">  
  <div class="box-outer">  
    <div class="box-inner">  
      <h2>Headline</h2>  
      <p>Content</p>  
    </div>  
  </div>  
</div>
```

Old School Way

```
.box {  
  width: 20em;  
  background: #effce7 url(images/bottom-left.gif) no-  
  repeat left bottom;  
}
```

```
.box-outer {  
  background: url(images/bottom-right.gif) no-repeat  
  right bottom;  
  padding-bottom: 5%;  
}
```

Old School Way

```
.box-inner {  
  background: url(images/top-left.gif) no-repeat left  
  top;  
}
```

```
.box h2 {  
  background: url(images/top-right.gif) no-repeat  
  right top;  
  padding-top: 5%;  
}
```

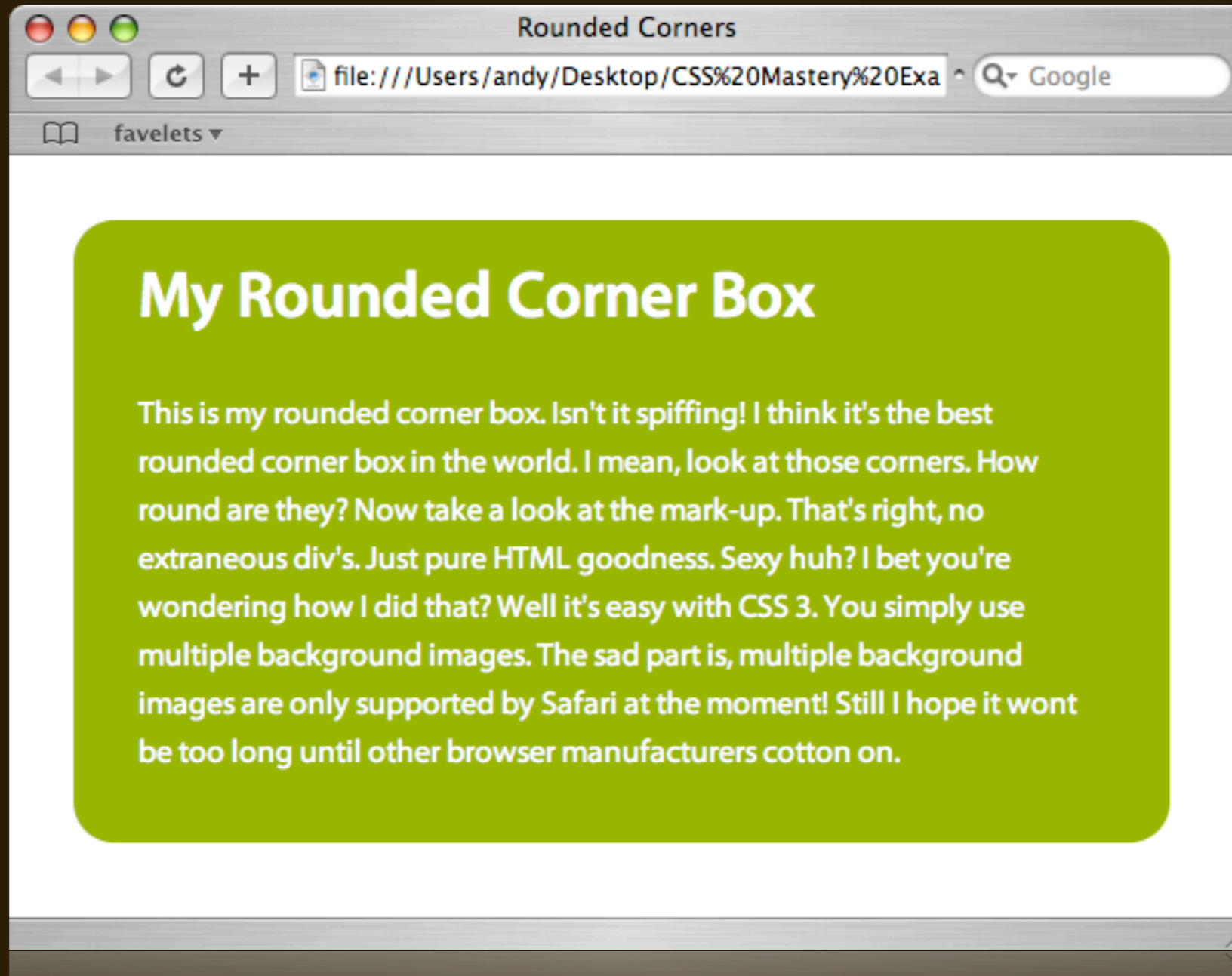
The CSS3 Way

```
<div class="box">  
  <h2>Headline</h2>  
  <p>Content<p>  
</div>
```

Using Multiple Background Images

```
.box {  
    background-image: url(top-left.gif), url(top-  
right.gif), url(bottom-left.gif), url(bottom-  
right.gif);  
  
    background-repeat: no-repeat, no-repeat, no-  
repeat, no-repeat;  
  
    background-position: top left, top right, bottom  
left, bottom right;  
}
```

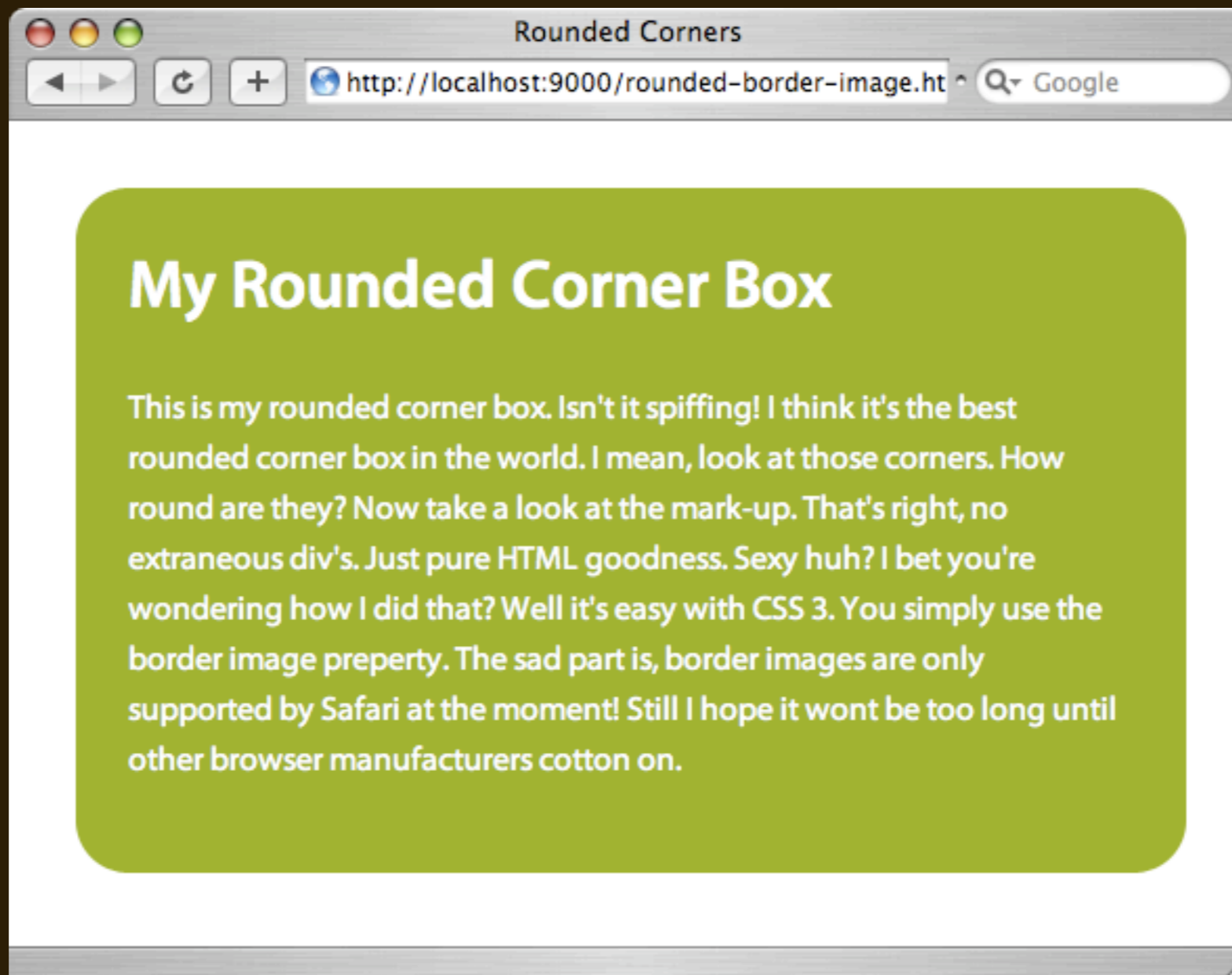
The Results



Using Border Image

```
.box {  
    -webkit-border-image: url(images/corners.gif)  
        25% 25% 25% 25% / 25px round round;  
}
```

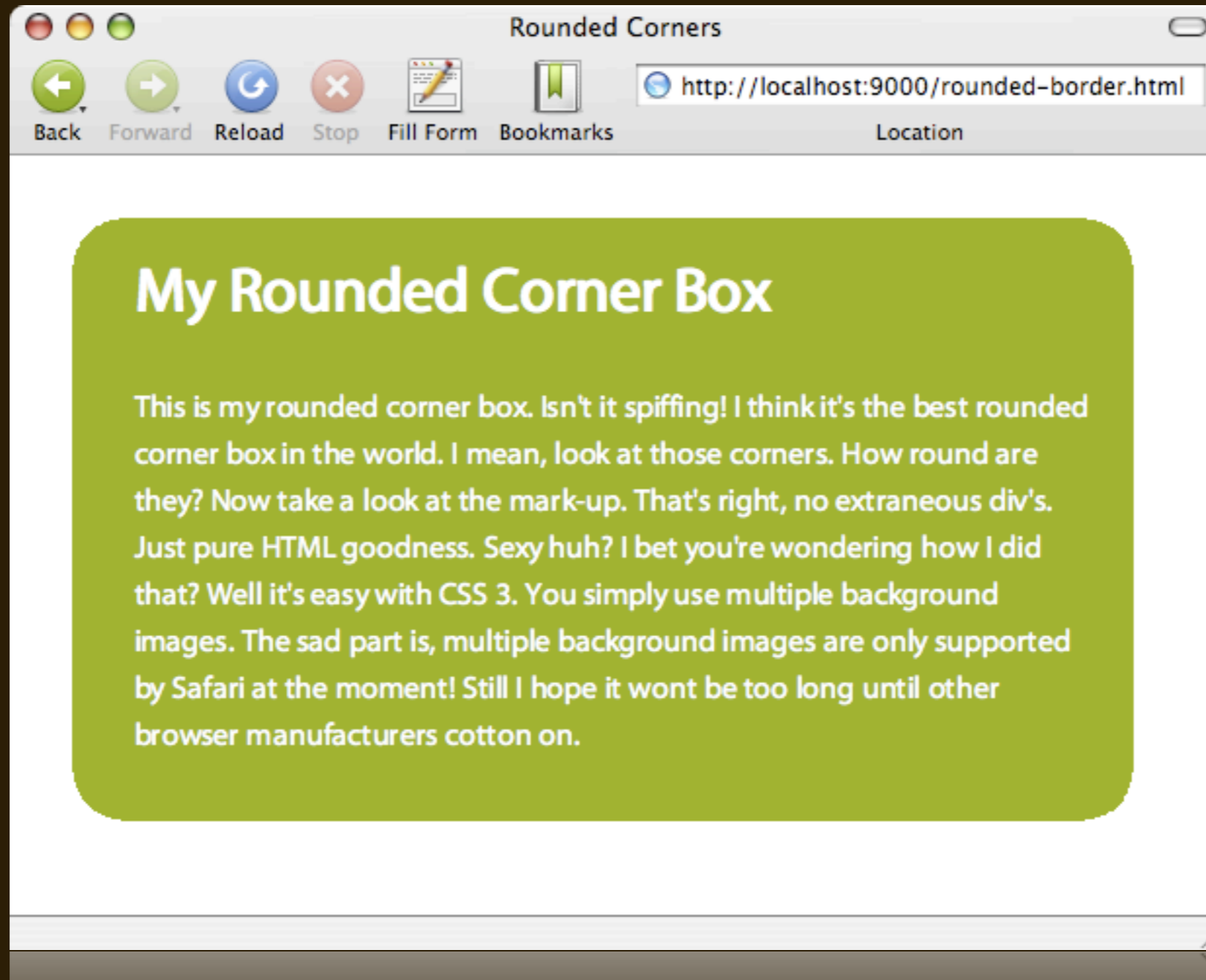
The Results



Using Border Radius

```
.box {  
    -moz-border-radius: 2em;  
    -webkit-border-radius: 2em;  
    border-radius: 2em;  
}
```

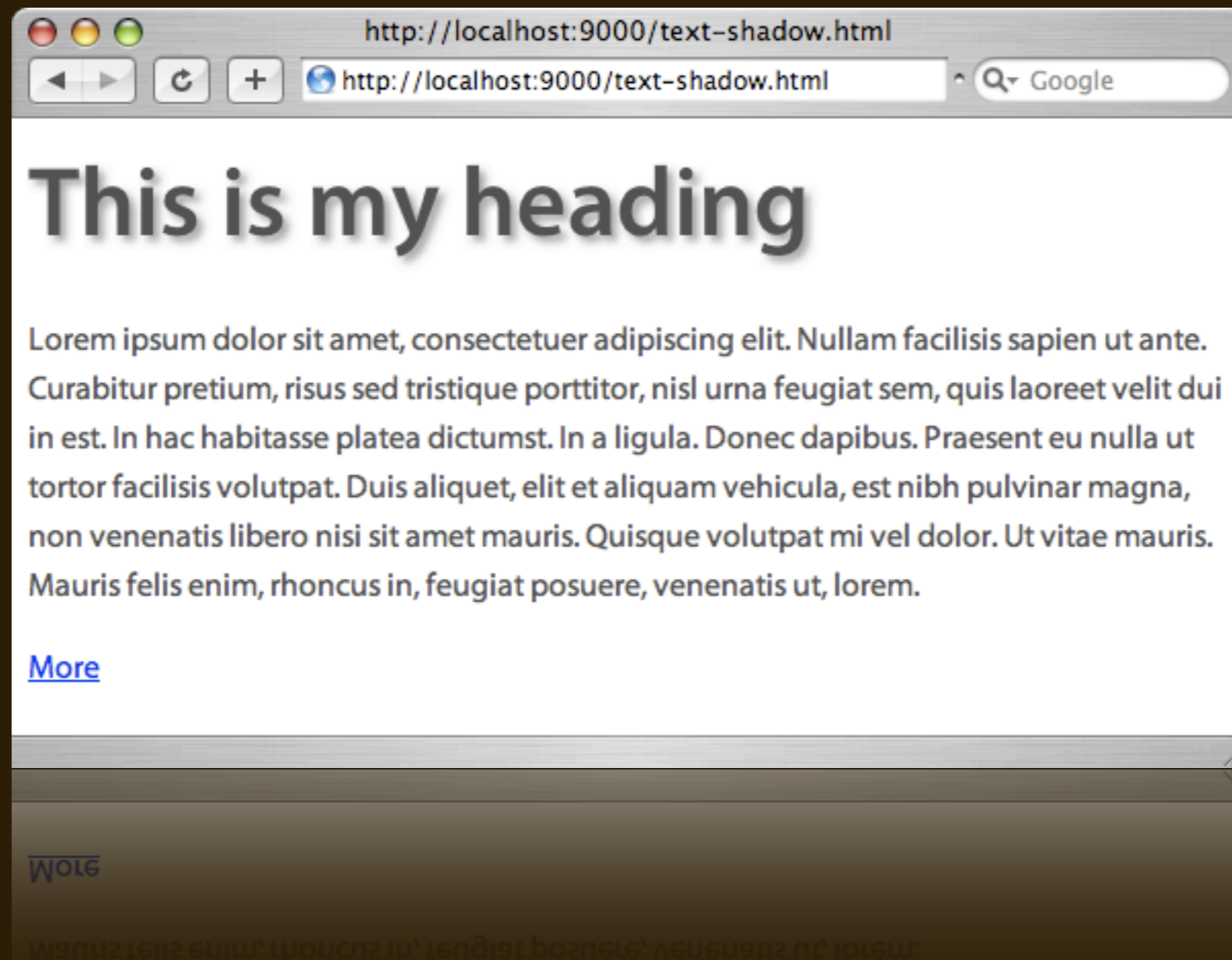
The Results



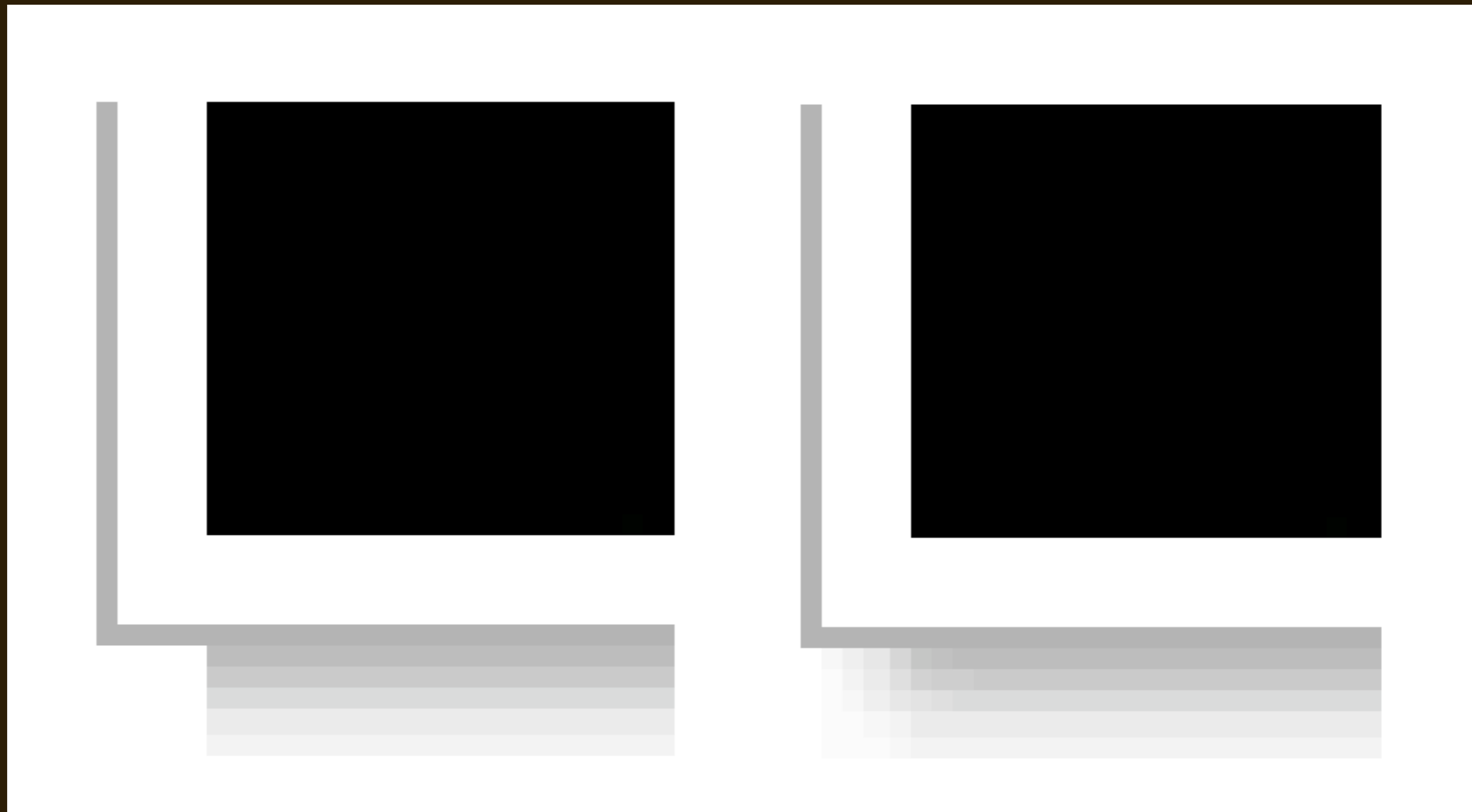
CSS3 Text Shadow

```
h1 {  
    text-shadow: 4px 4px 5px #999;  
}
```

The Results



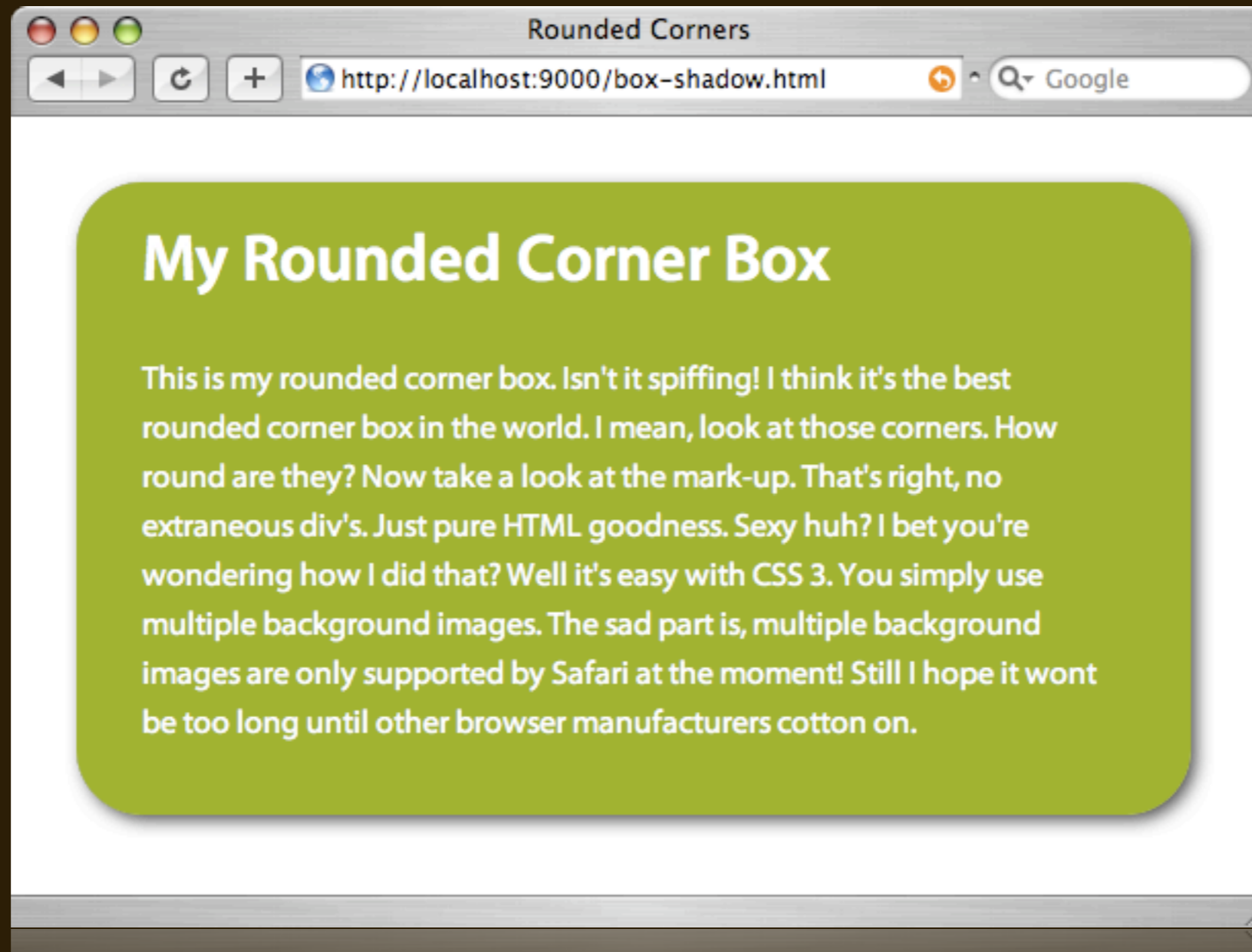
Drop Shadows



CSS3 Box Shadow

```
.box {  
    -webkit-box-shadow: 4px 4px 8px #444;  
    -moz-box-shadow: 4px 4px 8px #444;  
    box-shadow: 4px 4px 8px #444;  
}
```

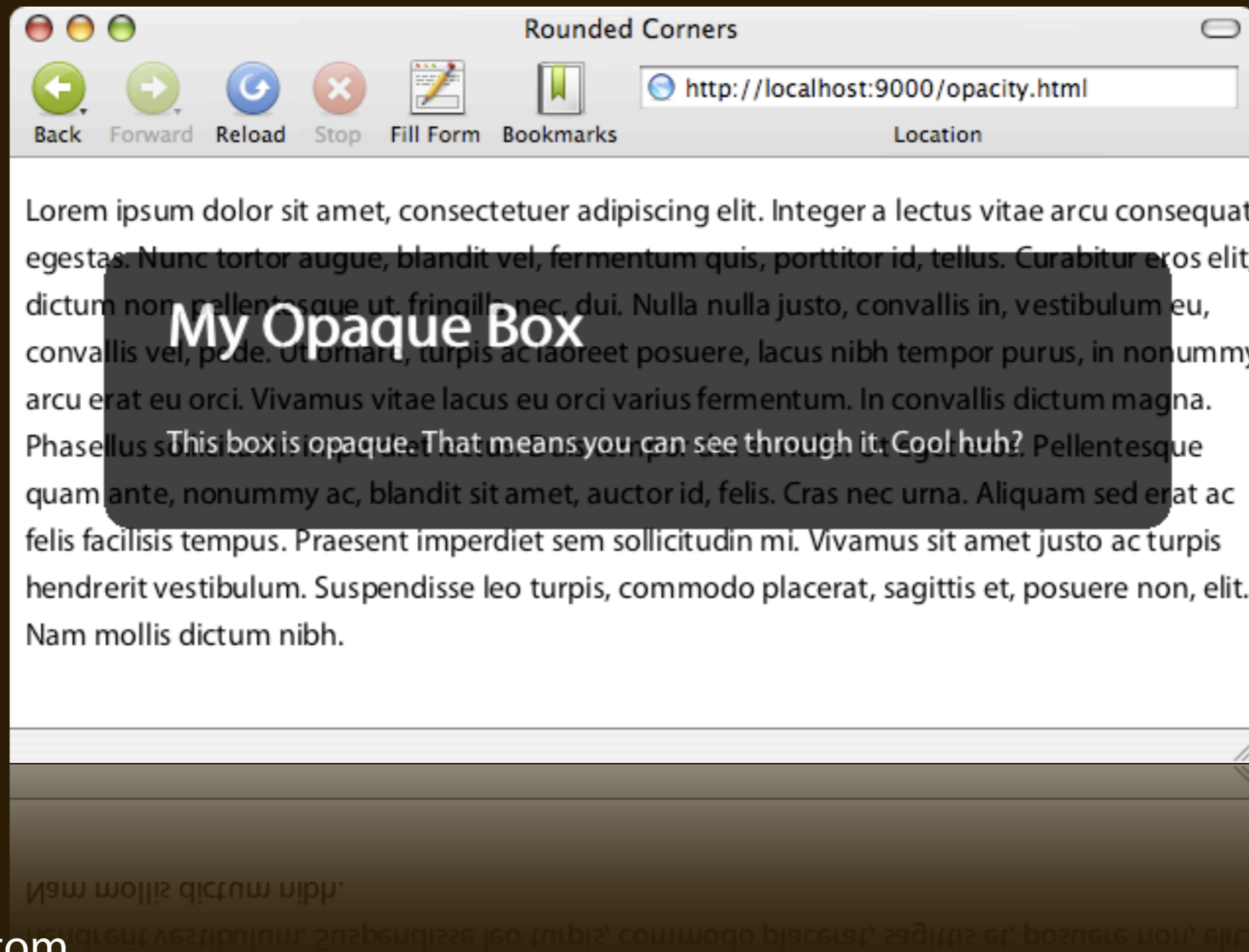
The Results



CSS3 Opacity

```
.alert {  
    background-color: #000;  
    opacity: 0.8;  
    filter: alpha(opacity=50); /*proprietary IE code*/  
}
```

The Results



CSS3 Multi-column Layout

```
#content {  
  -moz-column-count: 2;  
  -moz-column-gap: 2em;  
  -webkit-column-count: 2;  
  -webkit-column-gap: 2em;  
  column-count: 2;  
  column-gap: 2em;  
}
```

The Results



Things to Come

Calculations

```
#mainContent {  
  width: calc(100% - 200px)  
}
```

CSS3 Layout

```
body {  
    display: "aaa"  
           "bcd";  
           "eee";  
}  
  
#header { position: a; }  
#nav { position: b; }  
#mainContent { position: c; }  
#secondaryContent { position: d; }  
#footer { position: e; }
```

The Marquee is Back!

```
#newsTicker {  
    white-space: wrap;  
    overflow: hidden;  
    marquee: scroll;  
}
```

So Where Are We?

CSS2.2 Anyone?

- Some really interesting things in CSS3
- Many of them are fairly niche, with little demand
- Many browsers already support the more interesting features of CSS3
- Why not have an intermediary step covering the stuff people want?

Thank You

Download slides at www.andybudd.com/css3/