

Session 1

September 15th, 2008



What is a website?

Interactive Information



How do we view a website?

With Internet Browsers

Internet Browser \neq Internet Explorer

Internet Browsers

you should be aware of

- Firefox [<http://www.mozilla.com/en-US/>]
- Internet Explorer
 - 6 [http://tredosoft.com/Multiple_IE]
 - 7 [<http://www.microsoft.com/windows/downloads/ie/getitnow.msp>]
 - 8 beta [www.microsoft.com/windows/internet-explorer/beta/worldwide-site.aspx?id=ie8_asd]
- Opera [<http://www.opera.com/>]
- Safari [<http://www.apple.com/safari/>]
- Google Chrome [<http://www.google.com/chrome>]



Job Titles in the Field

Website Designer

- designs websites
- Photoshop, Fireworks, Wireframing, HTML, CSS

Web Developer

- web programmer
- JavaScript, PHP, Ruby on Rails, MySQL

Database Administrator

- database manager
- MySQL, Oracle

Front-end Engineer

- designs the outward facing site
- HTML, CSS, JavaScript

Strategist

- plans and outlines a user's need
- Pen and paper

Evangelist

- communicates
- Podium



Organizations to know

The W3C

World Wide Web Consortium

The governing body of all web technologies

Concerns of a Web Designer

To create the same user experience for all users on all devices

Accessibility

- Users with disabilities or impairments can use

Usability

- The ease of use

Concerns of a Web Designer

Separation of

**Content,
Presentation, &
Behavior**



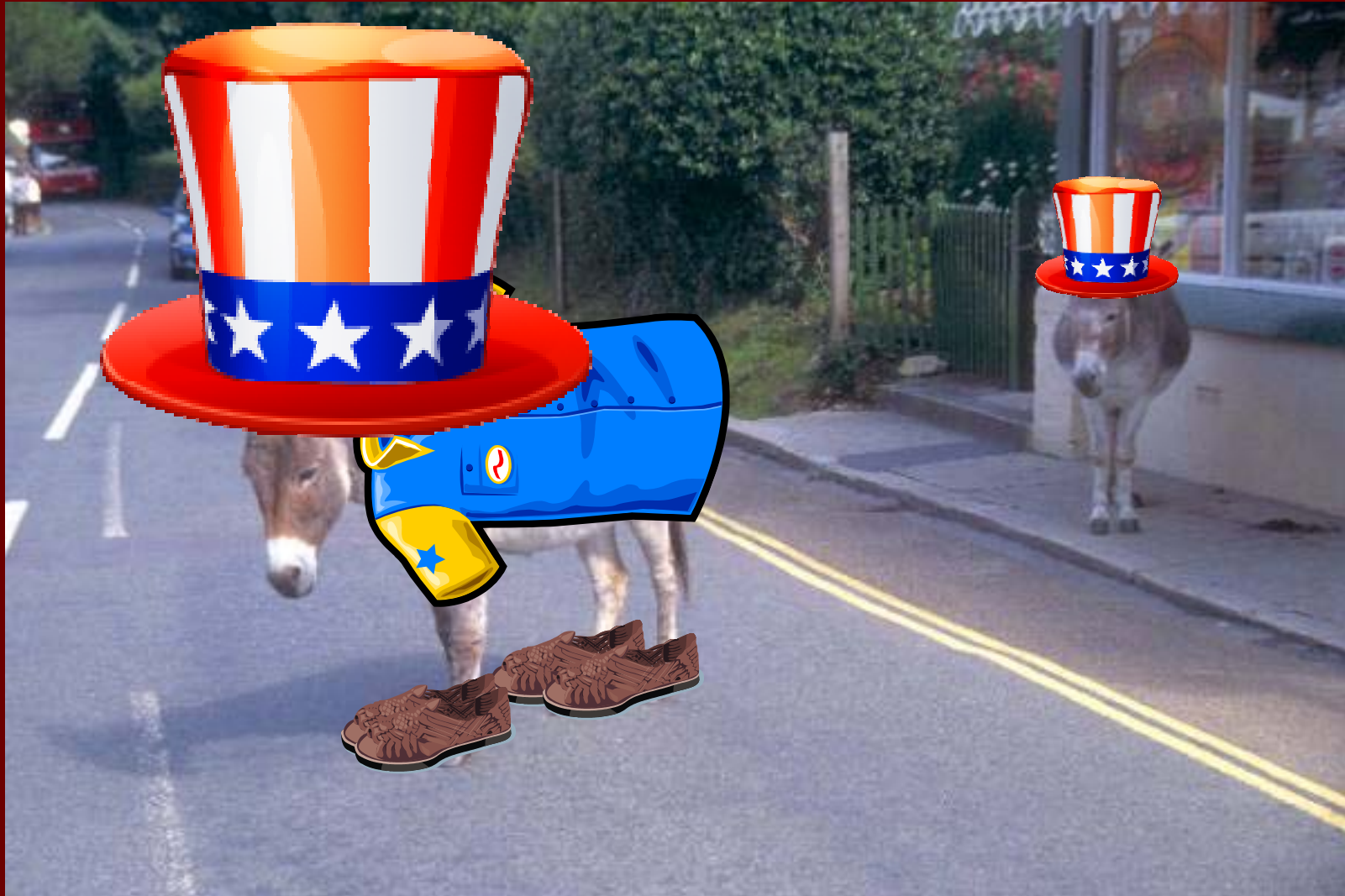
Content



Presentation



When the browser brings them together



What is HTML?

Hyper Text Markup Language

A way to provide meaning to the information
in our Interactive Information (a website)

Example:

```
This is my site title
```

Becomes

```
<h1>This is my site title</h1>
```

Basic HTML Terminology

Tag

- Anything wrapped in < and >
- Denotes a meaning
- <p> would be spoken in English as the P tag

Element

- The thing the tag represents

Attributes

- Things that can modify an element

Nesting

- Tags within tags, tabbed

Closing a tag

- A forward slash on the trailing tag, <p>my paragraph</p>

Block Elements

- Elements that reserve the entire line
- Ie: Headings

Inline Elements

- Elements that use only the space they need
- Ie: strong/emphasis

Semantic Meaning

- The implied meaning of a tag



Rules of HTML

1. Sections of a site
 - Doctype, Head, Title, Body
2. All content goes in the body
3. All HTML is lowercase
4. Special Characters are encoded (&, >>, “ ”)
5. Spaces – any more than one space must be hand coded in
6. File extension must be html
7. File & Directory naming
 1. No spaces (no-spaces-in-between.html)
 2. One period (filename.ext)
 3. No underscores
8. Use a logical directory structure

But it still works

If you don't follow the rules



What is XHTML?

A stricter and cleaner version of HTML

eXtra-clean HTML

Not really...

eXtensible Hyper Text Markup Language



Doctypes

Doctypes tell the browser what type of HTML you are going to use

This is more effective than making the browser guess

Your options:

- ~~HTML 4.01 Transitional~~
- ~~HTML 4.01 Strict~~
- ~~XHTML 1.0 Transitional~~
- ~~XHTML 1.0 Strict~~
- ~~XHTML 1.1~~
- ~~XHTML Mobile 1.0~~

Lab 1

Make a basic website with

- XHTML 1.0 Doctype
- Title: [your name]'s webpage
- All six headings
- 3 paragraphs
- 1 unordered list
- 1 ordered list
- 1 nested list
- 3 images
- links



Validation

What is validation?

- Checking your website against the rules set forth by the doctype

How do we check?

- The W3C [<http://validator.w3.org/>]
- Using the play button in Dreamweaver, 

Why Validate?

Arming you with reasons to justify it to students

- Analogy: Why spell and grammar check?
- Browser methods for handling errors vary
- “My site looks fine, isn’t that enough?”
 - A site looks like nothing, it’s the browser that interprets the html and displays it and unfortunately browsers render differently
- “Lots of websites out there don’t validate, including household name companies”
 - This is true, but many household name companies aren’t relying on their website to influence your purchasing decisions, can you say the same?
- “Validation means boring websites”
 - <http://www.csszengarden.com/>
 - <http://www.csszengarden.com/?cssfile=css/206.css&page=0>
 - <http://www.csszengarden.com/?cssfile=css/200/200.css&page=1>
 - Exactly the opposite

Lab 1 extended

Validate your website



