



Announcements

- Assessments
 - * Quiz this week on chapters 3-4
 - * Quick Write this week
 - * Quick Write 1 is all graded and posted
 - A half dozen I have to look up lab sections
- Readings
 - * Chapters 1-5 by today
 - * Chapter 6 for Wednesday



Announcements

- When you need help...
 - * Class Bulletin Board
 - Linked from course Web site
 - Communications group in Navigation bar
 - * Class listserv (anonymous or otherwise)
 - * Office hours
 - * Drop-in labs MGH 430
 - M 4:30-5:20pm
 - W 10:30-12:20pm
 - * Email to TA or instructor



Announcements

- Students ask if they can work on Project 1 at home?
 - * Yes!
 - * Download the UWICK software so you have access to Dante from home



Hypertext Markup Language

HTML is the language of Web pages



Basic HTML Structure

All HTML files use the same structure:

```
<html>
  <head>
    <title>Name of Page Goes Here
  </title>
    Heading content goes here
  </head>
  <body>
    Body content goes here
  </body>
</html>
```



Basic HTML Structure

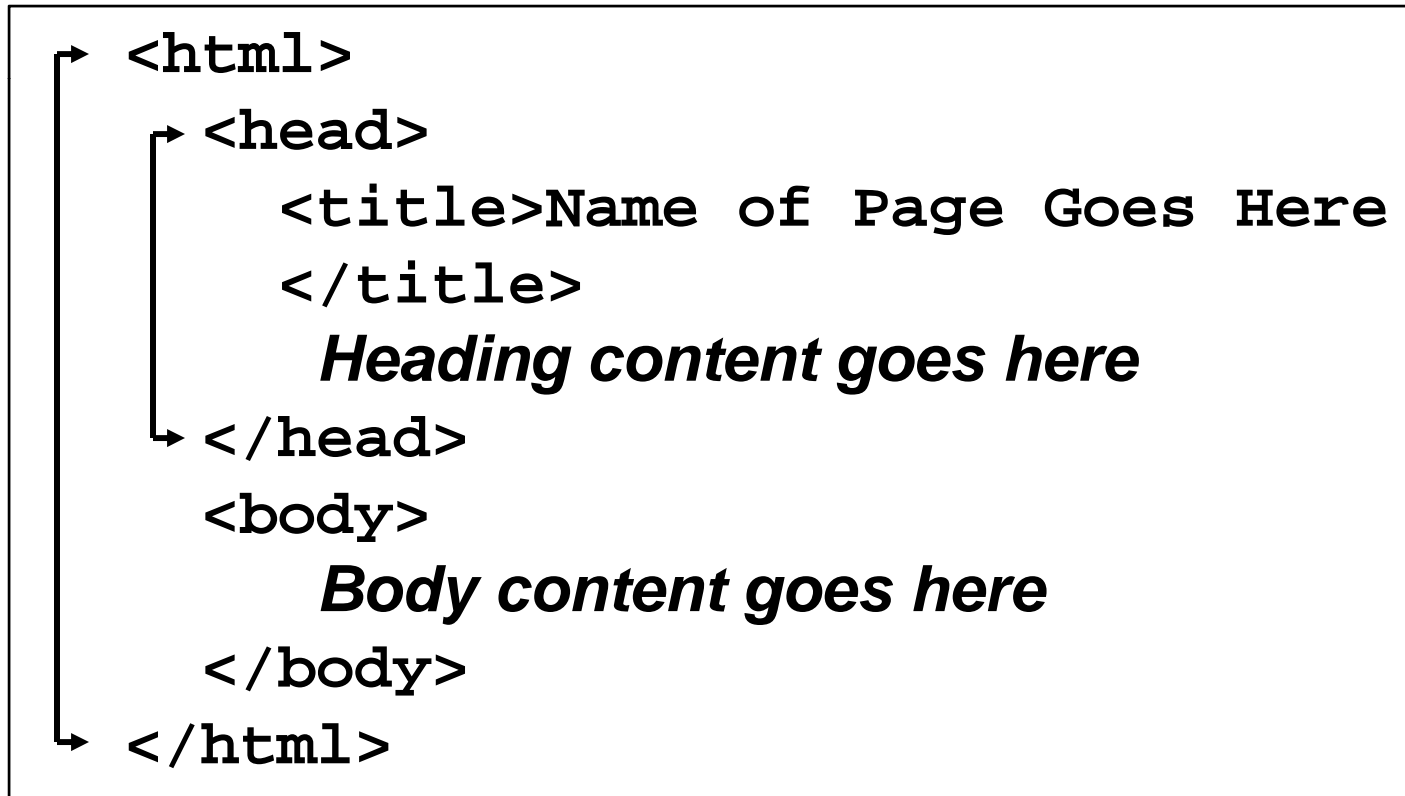
All HTML files use the same structure:

```
<html>
  <head>
    <title>Name of Page Goes Here
  </title>
    Heading content goes here
  </head>
  <body>
    Body content goes here
  </body>
</html>
```



Basic HTML Structure

All HTML files use the same structure:





Basic HTML Structure

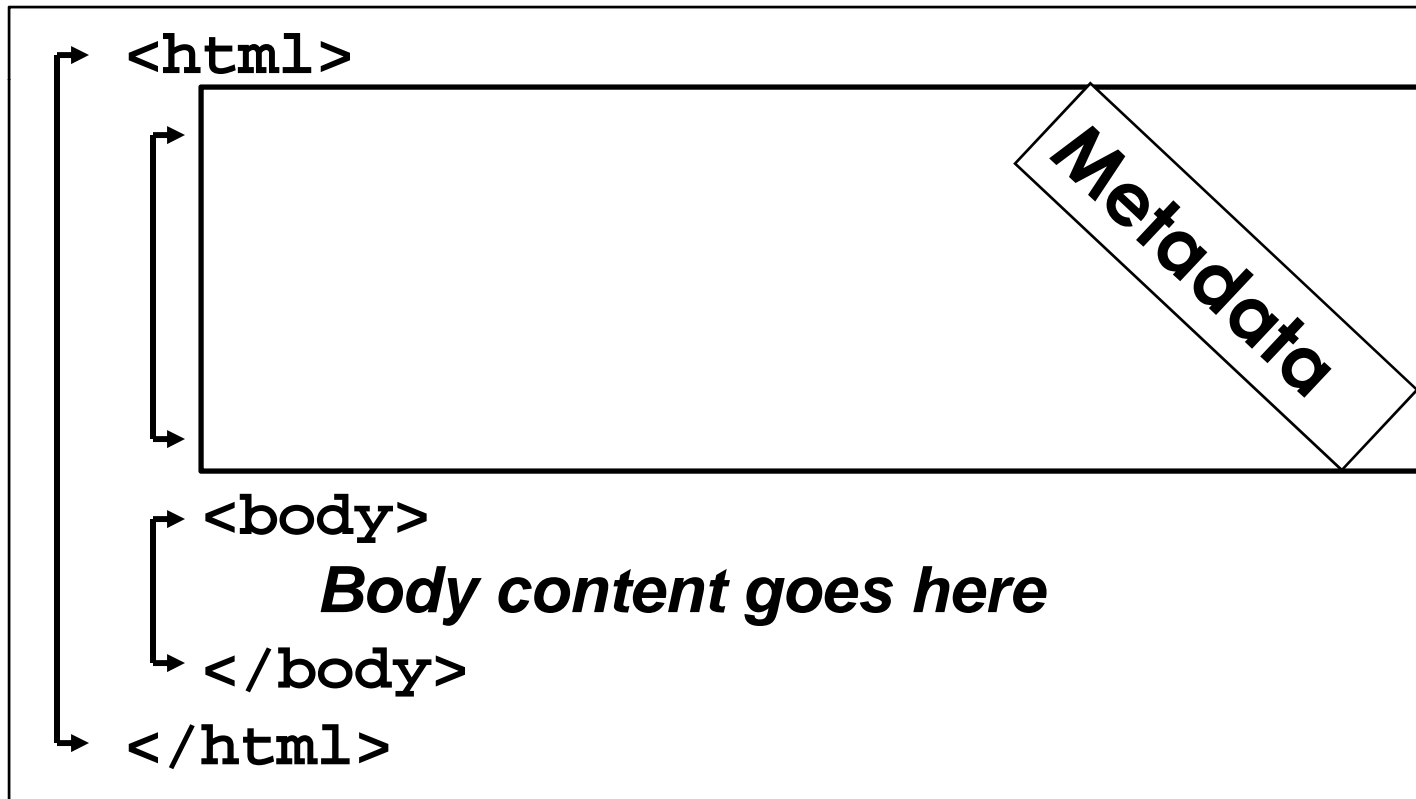
All HTML files use the same structure:

```
<html>
  <head>
    <title>Name of Page Goes Here
  </title>
    Heading content goes here
  </head>
  <body>
    Body content goes here
  </body>
</html>
```




Basic HTML Structure

All HTML files use the same structure:





Web Pages in HTML

```
<html>
<head><title>Writer's Anecdotes</title></head>
<body bgcolor="white" text="black"><font face="Helvetica"

<table>
<tr>
<td><a href="hdt.html">Thoreau</a></td>
<td><a href="ed.html">Dickinson</a></td>
<td><a href="lwl.html">Longfellow</a></td>
<td><a href="lma.html">Alcott</a></td>
<td><a href="sc.html">Twain</a></td>
<td><a href="wf.html">Faulkner</a></td>
<td><a href="rf.html">Frost</a></td>
<td><a href="eh.html">Hemingway</a></td>
<td><a href="js.html">Steinbeck</a></td>
</tr>
</table>
<h2>Steinbeck</h2>
<p>Steinbeck traveled to Russia several times, but
never mastered the language. Traveling with
photographer Robert Capa in 1947 he wrote, "...I
admit our Russian is limited, but we can say hello
come in, you are beautiful, oh no you don't, and o
which charms us but
rarely needed, 'The
left foot.' We don't
</p>
</body>
</html>
```



American Writers



First HTML Web Page

This HTML produces this result

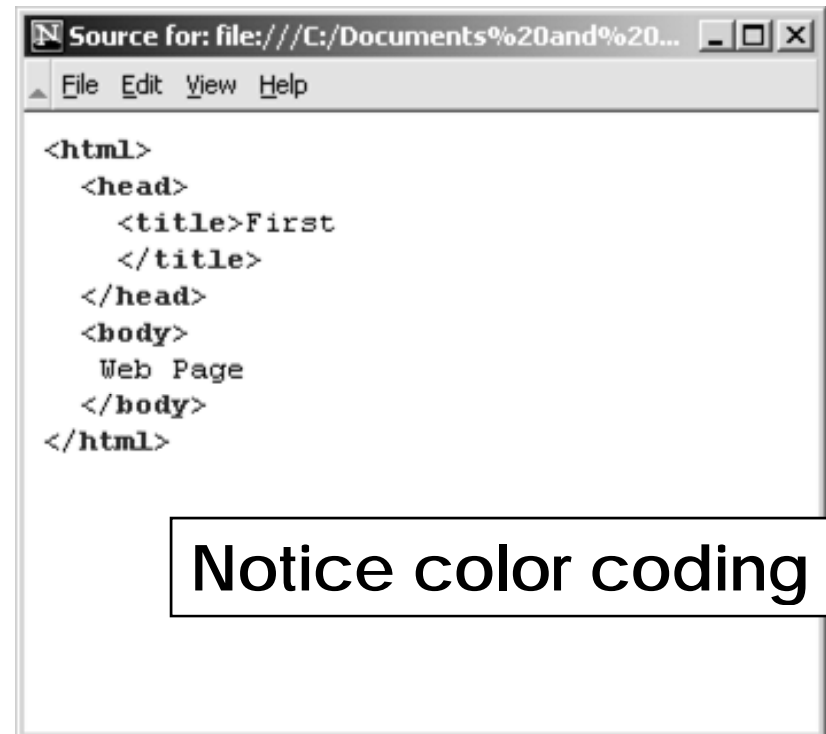
```
<html>
  <head>
    <title>First
  </title>
  </head>
  <body>
    Web Page
  </body>
</html>
```





Page Source

The HTML code that produces a page is the *source...which can always be viewed*



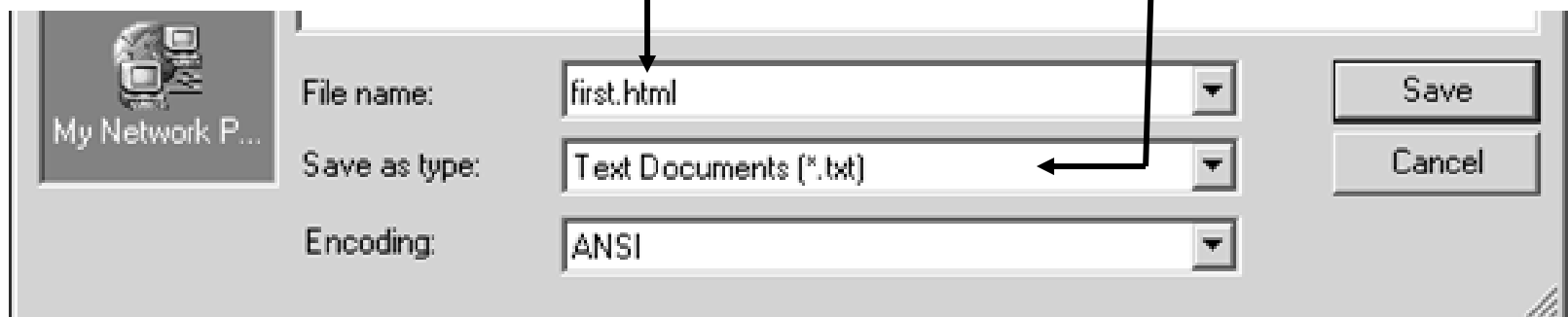
Notice color coding



HTML Must Be Text

Word processors insert weird formatting tags & confuse browsers

- What to use instead?
 - Create source in NotePad2, etc.
 - Save in **Text** or **txt** format
 - Save with file extension **.html**





Add An Image

Images are encoded three ways:

GIF—Graphics Interchange Format

for diagrams and simple drawings

JPEG—Joint Photographic Experts Group

for high resolution photos, complex art

PNG—

for the Web, newer

- The encoding is given in the file extension



Add An Image

- Image tags for placing images

```

```

tag





Add An Image

- Image tags for placing images

```

```

Opening

Closing

**Self-closing tag, like `<hr />` and `
`**



Add An Image

- Image tags for placing images

```

```

attribute name (source)



Add An Image

- Image tags for placing images

```

```

path name to file



Add An Image

- Image tags for placing images

```

```

Alternate tag

For users who

- can't see images or
- have images turned off



Add An Image

- Image tags for placing images

```

```

Alternate description

For users who

- can't see images or
- have images turned off



Video

- Net Point Video
 - * Files, Folders, and Paths



Demonstration

After building a web page, we find it is wrong

```
<body bgcolor="#CC9933">
<h1>Husky Pride</h1>
<h2>Those Amazing Huskies!</h2>
<p class="floatright">
  
    Husky Dog-Team, Atlin,
      British Columbia,
      Photo: H.E. Brown
  <br />
  © Public domain of
  Source: Civilization
  Retrieved 10/9/200
  <a href="http://www.c
</span>
</p>
<p>This amazing photo is of a Dog
<h2>There is a new "copyleft" move
```

Husky Pride

Those Amazing Huskies!

This amazing photo is of a Dogsled Mail team. It was taken circa 1909 by H.E. Brown. It is in the public domain, because the copyright expired after two copyright periods of 28

years, or 56 years total, in 1965. Other photos in the public domain are those taken for the free use of government text and photos. Wikipedia has links to many public domain image resources. [http://en.wikipedia.org/wiki/Wikipedia:Public domain image resources](http://en.wikipedia.org/wiki/Wikipedia:Public_domain_image_resources).

There is a new "copyleft" movement, that confers
<http://en.wikipedia.org/wiki/Copyleft> for more info

Houston, we have a problem

Husky team

Husky Dog-Team, Atlin, British Columbia, ca
© Public domain of Canada, PA-032411
Source: Civilization.ca: The Origins of Dogsk
Retrieved 10/9/2007: <http://www.civilization>



Debugging Demo

```
<body bgcolor="#CC9933">
<h1 color="white">Husky Pride</h1>
<h2>Those Amazing Huskies!</h2>
<p class="floatright">
  
  © Publ
  Source
  Retri
  <a href="h
</span>
</p>
<p>This amazing photo
<p>There is a new "cop
</body>
</html>
```

Husky Pride

Those Amazing Huskies!

This amazing photo is of a Dogsled Mail team. It was taken circa 1909 by H.E. Brown. It is in the public domain, because the copyright expired after two copyright periods of 28 years, or 56 years total, in 1965. Other

Intended page





Pathname

The file is accessed from the same directory, from a subdirectory and from the containing directory



File Structure

The path tells how to reach the file

- When the file is in the directory as the web page, just give the file name, **ski.jpg**
- If the file is in a subdirectory, say how to navigate to it, **pix/ski.jpg**
- If the file is in a superdirectory, move up using dot-dot notation, **../ski.jpg**

The most common reason that an image is not displayed is the path is wrong ... check!



Paths

- Two types of paths
 - * Relative
 - To folder where this html page is located
 - * Absolute
 - Complete URL



Paths

- Relative path
 - * `src=" huskyTeam.jpg "`
- Absolute path
 - * `href="`
<http://www.cs.washington.edu/education/courses/cse100/08sp/images/huskyTeam.jpg>`"`



Paths

- Relative path
 - * href="huskyPride.html"
- Absolute path
 - * href=" "
<http://www.cs.washington.edu/education/courses/cse100/08sp/examples/huskyPride.html> "



Pathnames & File Locations

- Why couldn't I find that image?
 - * Did name in html file match image name?
 - Correct!
 - * Where was it?
 - On my desktop
 - *Not* in the images folder
- What's a better way of keeping track of files?



Keeping Things Straight

- Match desktop and remote:
 - * folder for folder
 - * file for file

The screenshot shows a WinSCP window with two panes. The left pane shows the local file system at C:\Users\daclem\Documents\MyWebSites\FIT100_08wi. The right pane shows the remote file system at /cse/www/education/courses/100/08wi. Both panes display a list of files and folders with columns for Name, Ext, Size, Type, and Changed. The files and folders in both panes are nearly identical, demonstrating a consistent naming scheme between the local desktop and the remote server.

Name	Ext	Size	Type	Changed
..			Parent directory	1/17/2008 9:16:01 PM
examples			File Folder	1/16/2008 5:16:42 PM
files			File Folder	1/11/2008 10:29:52 PM
homework			File Folder	1/16/2008 10:35:01 AM
images			File Folder	1/16/2008 8:09:47 AM
labs			File Folder	1/16/2008 1:10:58 AM
other			File Folder	1/17/2008 9:52:53 PM
projects			File Folder	1/16/2008 12:57:19 AM
slides			File Folder	1/17/2008 9:43:10 PM
styles			File Folder	1/17/2008 8:30:04 PM
videos			File Folder	1/4/2008 9:31:48 PM
_shell.html		6,691	Firefox Docum...	1/16/2008 12:24:28 AM
accommodations100.html		7,460	Firefox Docum...	1/13/2008 10:38:16 PM
calendar100.html		27,495	Firefox Docum...	1/17/2008 9:16:01 PM
codingSteps.html		10,707	Firefox Docum...	1/16/2008 12:47:16 AM
computing100.html		12,185	Firefox Docum...	1/13/2008 10:41:02 PM
conduct100.html		12,805	Firefox Docum...	1/13/2008 10:40:28 PM
extra_credit_papers.html		2,292	Firefox Docum...	1/6/2008 9:51:34 PM
grading100.html		13,387	Firefox Docum...	1/17/2008 1:14:31 PM
index.html		14,719	Firefox Docum...	1/17/2008 8:32:04 PM
movies.html		8,484	Firefox Docum...	1/14/2008 12:18:15 PM
syllabus100.html		21,191	Firefox Docum...	1/13/2008 10:38:16 PM
vision100.html		8,928	Firefox Docum...	1/13/2008 10:38:58 PM

Name	Ext	Size	Changed	Rights
..			12/16/2007 1:55:11 PM	rw-rw-r--
examples			1/8/2008 8:57:38 AM	rw-rw-r--
files			1/8/2008 8:57:43 AM	rw-rw-r--
homework			1/9/2008 2:33:11 PM	rw-rw-r--
images			1/9/2008 3:13:00 PM	rw-rw-r--
labs			1/16/2008 1:12:32 AM	rw-rw-r--
other			1/17/2008 9:53:12 PM	rw-r--s-
projects			1/16/2008 1:13:24 AM	rw-rw-r--
slides			1/16/2008 5:13:38 PM	rw-rw-r--
styles			1/8/2008 8:58:30 AM	rw-rw-r--
videos			1/8/2008 8:58:32 AM	rw-rw-r--
_shell.html		6,855	1/12/2008 11:47:31 PM	rw-rw-r--
accommodations100.html		7,353	1/13/2008 10:43:09 PM	rw-rw-r--
calendar100.html		26,715	1/17/2008 1:32:38 PM	rw-rw-r--
calendar100_OLD.html		27,650	1/16/2008 12:33:56 AM	rw-rw-r--
codingSteps.html		10,508	1/13/2008 10:38:16 PM	rw-rw-r--
computing100.html		12,063	1/13/2008 10:43:11 PM	rw-rw-r--
conduct100.html		12,595	1/13/2008 10:43:12 PM	rw-rw-r--
grading100.html		13,084	1/17/2008 1:15:27 PM	rw-rw-r--
index.html		14,479	1/17/2008 8:32:19 PM	rw-rw-r--
movies.html		8,347	1/14/2008 12:18:44 PM	rw-rw-r--
syllabus100.html		20,915	1/13/2008 10:43:14 PM	rw-rw-r--
vision100.html		8,816	1/13/2008 10:43:14 PM	rw-rw-r--



Best Practices

- When do I use absolute pathnames?
 - * For external links to other Web sites
- When do I use relative pathnames?
 - * For links to other items in my own site
 - Pages
 - Images
 - Documents, etc.



Summary

- Web pages are written in HTML
 - The file type must be text
 - The file extension must be **.html**
- Tags are nested, enclose content like parentheses
- Use a change-and-test process
- Images have three formats and explicit paths
 - Either absolute or relative