


## 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

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## 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*

© 2004 Lawrence Snyder

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## 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>
```




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### Basic HTML Structure

All HTML files use the same structure:

```

<html>
  [Metadata]
  <body>
    Body content goes here
  </body>
</html>

```




### Basic HTML Structure

All HTML files use the same structure:

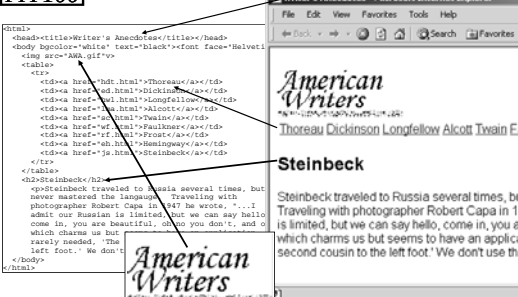

```

<html>
  <head>
    <title>Name of Page Goes Here
    </title>
    Heading content goes here
  </head>
  [Content]
</html>

```



### Web Pages in HTML


### 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*

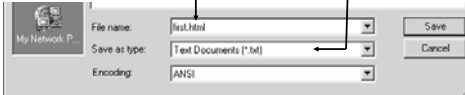

Notice color coding



## HTML Must Be Text

Word processors insert weird formatting tags & confuse browsers

- What to use instead?
  - Create source in NotePad, 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

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## Add An Image


- Image tags for placing images

```

```

tag

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## Add An Image

- Image tags for placing images

```


```

Opening

Closing

Self-closing tag, like <hr /> and <br />

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## Add An Image


- Image tags for placing images

```

```

attribute name (source)

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## Add An Image


- Image tags for placing images

```

```

path name to file

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## Add An Image

- Image tags for placing images

```


```

Alternate tag

For users who

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

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## Add An Image

- Image tags for placing images

```


```

Alternate description

For users who

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

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## Video

- Net Point Video
- \* [Files, Folders, and Paths](#)

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## Demonstration

After building a web page, we find it is wrong

```
<body bgcolor="#000000">
<h1>Husky Pride</h1>
<h2>Those Amazing Huskies!</h2>
<p class="float:right">
  
    Husky Dog-Team, Atlin,
    British Columbia,
    Photo: H.E. Brown
  </span>
  © Public domain ©
  Source: Civilization
  Retrieved 10/9/20
  <a href="http://www.o
</p>
<p>This amazing photo is of a
<h2>There is a new "copyleft" mov
```


**Husky Pride**

**Those Amazing Huskies!**

This amazing photo is of a Husky Dog-Team, Atlin, British Columbia, ca. 1909. 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 that are in the public domain and photos. Wikipedia has links to many public domain photos on [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 confuses...

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## Debugging Demo


```
<body bgcolor="#000000">
<h1 style="color:white">Husky Pride</h1>
<h2>Those Amazing Huskies!</h2>
<p class="float:right">
  
    Husky Dog-Team
    Photo: H.E. Brown
    © Public domain
    Source: Civilization
    Retrieved 10/9/2007: http://www.o
  </span>
  © Public domain ©
  Source: Civilization
  Retrieved 10/9/2007: http://www.o
  </p>
<p>This amazing photo is of a
</body>
</html>
```

**Husky Pride**


**Those Amazing Huskies!**

This amazing photo is of a Husky Dog-Team, Atlin, British Columbia, ca. 1909. 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 that are in the public domain and photos. Wikipedia has links to many public domain photos on [http://en.wikipedia.org/wiki/Wikipedia:Public\\_domain\\_image\\_resources](http://en.wikipedia.org/wiki/Wikipedia:Public_domain_image_resources).

**Intended page**




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## Pathname

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

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## 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!


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## Paths

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


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## Paths

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


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## Paths


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

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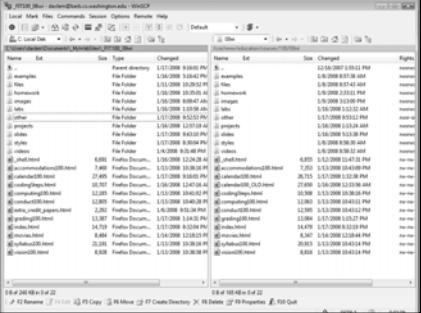
## Pathnames & File Locations


- 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






## 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.

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## 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

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