# Hypertext Markup Language

# INFO/CSE 100, Autumn 2004 Fluency in Information Technology

http://www.cs.washington.edu/100

8-Oct-2004

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# Readings and References

- Reading
  - » Fluency with Information Technology
    - Chapter 4, Marking up with HTML
- References
  - » World Wide Web Consortium
    - "The World Wide Web Consortium (W3C) develops interoperable technologies (specifications, guidelines, software, and tools) to lead the Web to its full potential."
    - http://www.w3.org/
    - http://w3c.org/MarkUp/Activity
    - http://w3c.org/MarkUp/Guide/

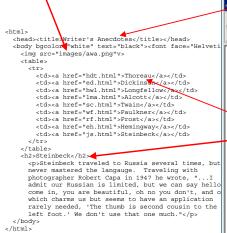
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# American Writers

### Web Pages in HTML





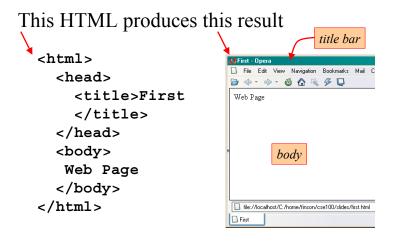
#### Steinbeck

Steinbeck traveled to Russia several times, but Traveling with photographer Robert Capa in 1 is limited, but we can say hello, come in, you a which charms us but seems to have an applicate second cousin to the left foot. We don't use the

# HTML Structure

• All HTML files use the same basic structure:

# First HTML Web Page



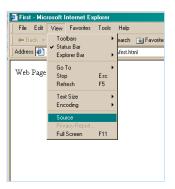
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#### The Source

The HTML code producing a page is the *source* which can always be *viewed*, either in the browser or in an editor





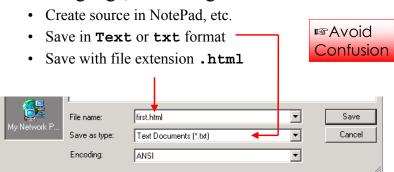
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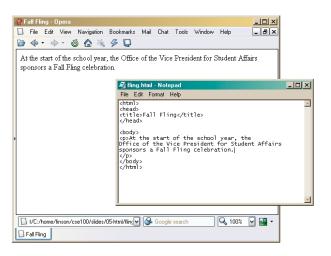
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### HTML Must Be Text

• Word processors (recall Chap. 2) insert formatting tags, confusing browsers



#### Illustrate the Process



#### » GIF -- Graphics Interchange Format -- is for diagrams and simple drawings

• Images are encoded many ways:

» PNG -- Portable Network Graphics - GIF without patent problems

Add An Image

- » JPEG -- Joint Photographic Experts Group -- is for high resolution photos, complex art
- Image tags for placing images

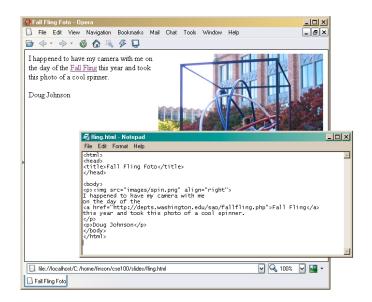


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### Illustrate the Process



#### File Structure

- The path must say 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 dotdot notation, ../ski.jpg

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

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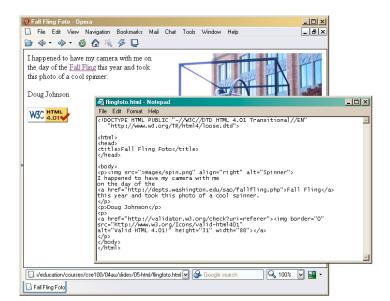
## Simple HTML

- What I've shown here is *very simple* HTML
- HTML is changing and there are tools and techniques for better control of the documents
  - » Each document should start with a short header specifying the rules that it follows
    - This is the "DOCTYPE Declaration"
    - http://www.w3.org/QA/2002/04/valid-dtd-list.html
    - I'm using 4.01 Transitional
  - » There is a validator service that will check your page
    - http://validator.w3.org/

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## Summary

- Web pages are written in HTML
  - The files must be text
  - The file extension must be .html
- Tags enclose content like parentheses
  - Control look with attributes on tags
- Use a change-and-test process
- Images have various formats and you must specify the explicit path to the picture