HTML5 Part I

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Outline

- Introduction to Atom
- HTML5 Basics

Code Editor

- Visual Studio Code

- Extensions:
  - Auto rename tag by Jun Han
  - Python by Microsoft

W3C Markup Validation Service

- http://validator.w3.org
  - By URI
  - By file upload
  - By direct input

Basic HTML5 Terms

- Tag: an HTML recognized keyword enclosed in angle brackets

  e.g., <html>, </html>

- Element: in the format of <start tag>mark up text<end tag>

  e.g., <title>Example Title</title>

- Attribute: in the format of AttributeName="value"

  e.g., <meta charset="utf-8">

- Void element: An element does not have a mark up text, nor does it have the end tag

  e.g., <meta charset="utf-8"> or <meta charset="utf-8" />

Document Type

- <!DOCTYPE html>
- Note: HTML code is case-insensitive

Required HTML Sections

- Head Section
  - A container for all head elements, defined using the <head> and </head> tags
  - The title element is required
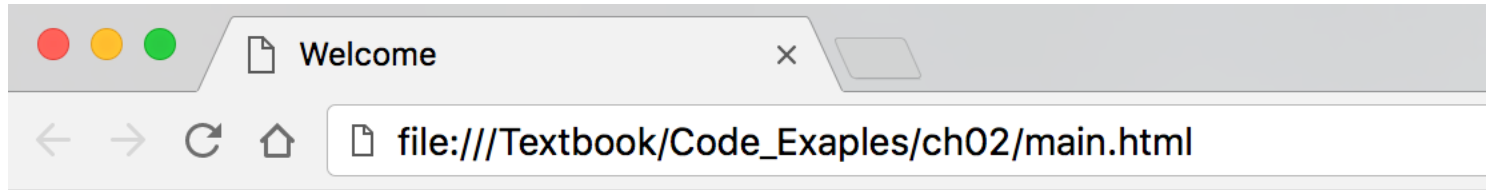 - Optional elements include meta, style, script, etc.
- Body Section
  - Defines the document body, using <body> and </body> tags
  - Can use many HTML elements, including text, paragraph, image, hyperlink, table, form, etc.

Head Elements

- Title
- Meta
  - Charset
  - Keywords
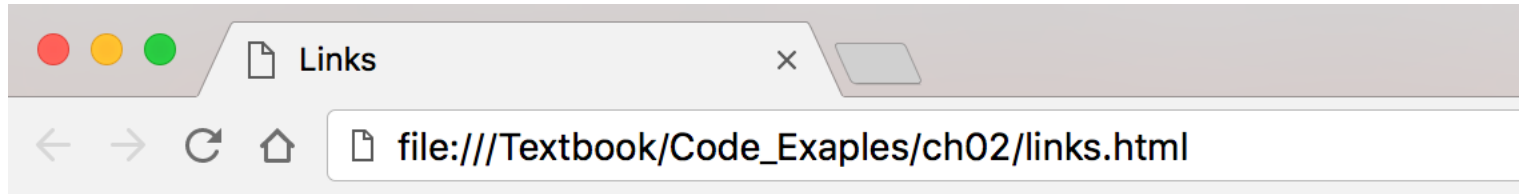 - Description
  - Etc.

Demo 1: Head Elements

Demo 2: Body Elements

- Heading
- Paragraph (strong, em)
- Linking
- Image and Image Linking
- Lists (unordered list, list item, nested list, and ordered list)
- Internal Linking
- Tables
- Special characters

Demo 3: Body Elements

Here are my favorite sites:
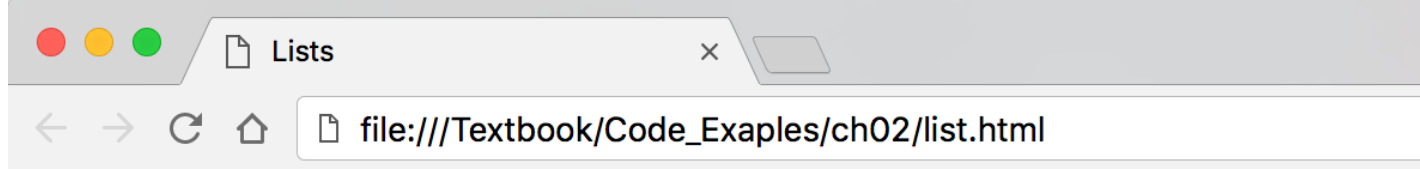
Click a name to visit that site.

Facebook

Twitter

Foursquare

Google

Demo 4:

The Best Features of the Internet

- You can meet new people from countries around the world.
- You have access to new media as it becomes public:
  - New games
  - New applications
    1. For business
    2. For pleasure
  - Around the clock news
  - Search engines
  - Shopping
  - Programming
    1. XML
    2. Java
    3. HTML5
    4. JavaScript
    5. New languages
- Links
- Keeping in touch with old friends
- It's the technology of the future!

Exercise 1:

Solution 15

Objectives

- To be able to create tables with rows and columns of data.
- To be able to control the display and formatting of tables.
- To be able to create and use forms.

Yea, from the table of my memory I'll wipe away all trivial fond records.
William Shakespeare

Exercise 2:

Business Information Technology

Faculty and Staff Directory

Office Hours- Spring 2016 Teaching Schedule

Name	Email - @vt.edu	Phone	Office
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