Creating Personal Web Pages @UH

October 10, 2007
9:30 am – 11:30 am
Keller Hall 204

Introductions
1. Name: Chase Kawakami
2. College/Department: ITS, Web Group
3. Web Experience: Web programming for the past 10-years.
4. What do you hope to get out of this class? Better understanding of UH faculty/staff requirements for Web publishing at UH.

Recipe for Web Publishing
1. Web Address or URL (Uniform Resource Locator)
2. Web Server
3. Web page editor
Web Publishing Recipe

1. Web Address / URL

- URL is made up of:
  - Host/Server Name
  - Domain Name
  - Unique - must be registered (usually at a cost)
  - Do NOT need a Web server to register a host or domain name

![Diagram of URL components]

Generic Top-Level Domains

- .edu - Higher-education institutions
- .gov - Government and their agencies in the US
- .com - Commercial organizations
- .net - Originally for network infrastructures
- .org - Originally for organizations not clearly falling into the other top-level domains
- .mil - US Military

Web Publishing Recipe

2. Web Server

- Web Hosting
  - Monthly/Annual fee to store Web pages on a Web Server located in a data center
  - Will usually register your domain and server name
  - Provides email accounts
  - Sometimes will provide Internet access
- Uploading Web pages
  - Depends on the Web Hosting Provider but common methods include:
    - FTP and SFTP
    - WebDAV
    - Shell Access (telnet / ssh)

Web Publishing Recipe

3. Web Page Editor

- WYSIWYG (What You See Is What You Get)
  - DreamWeaver
  - Macromedia Contribute
- Text
  - Notepad
- Shell
  - pico
  - vi and vim
  - emacs
Web Publishing Recipe
UH Web Publishing Options

- UH Personal Home page
  - http://www.hawaii.edu/askus/694
- Departmental Pages
  - Basic - no database or server scripting.
    http://www.hawaii.edu/askus/713
  - Advanced - database and server scripting.
    UH Hosted Website Service
    http://www.hawaii.edu/infotech/webservice/
- Campus/College/Department Server
  - Check w/your IT department

More info at http://www.hawaii.edu/askus/696

UH Personal Home page

- Faculty & Staff
  http://www.hawaii.edu/askus/695
- Students
  http://www.hawaii.edu/askus/714

UH Personal Home page
Policies

- UH Username is required.
- The following are PROHIBITED:
  - Illegal material (which may include sexually explicit images or sounds, and copyrighted or licensed material).
  - Commercial purposes.
  - Deliberate acts which waste computing resources or which unfairly monopolize resources to the exclusion of others.

Additional Info: http://www.hawaii.edu/askus/723
UH Personal Home page
Web Address / URL

- http://www2.hawaii.edu/~uhusername

Additional Info: http://www.hawaii.edu/askus/694

UH Personal Home page
Web Server

- uhunix.its.hawaii.edu
  - Upload/download via SFTP
  - Shell access via SSH
  - NO server scripting (i.e. php, cgi, perl, python, ruby, rails, jsp, asp, .net, etc…)

Additional Info: http://www.hawaii.edu/askus/694

UH Personal Home page
Web page Editor

- Any
  - DreamWeaver (WYSIWYG)
  - Macromedia Contribute (WYSIWYG)
  - Notepad (Text)
  - Pico / vi / emacs using SSH (Text via Shell)

Additional Info: http://www.hawaii.edu/askus/694
UH Personal Home page
“Create Home Page” tool

- Setup your Personal Home Page site and creates a Home page
- Web page editor NOT required
- Home page does NOT have to be uploaded to the Web server
- Part of Managing Your UH Username Website http://www.hawaii.edu/account/
- ONE-TIME use only: This tool will REPLACE your Home page if you already have one!

UH Personal Home page
Personal Home Page Options

- Enable Access to Existing Home Page Files
  - Use if you have a problem viewing your pages on the Internet.
  - Allows you to enable all or only parts of your Personal Home Page site. NOTE: Only if you create sub-folders to manage your site.
  - May need to reload page in browser and/or delete cache
- Disable Access to Home Page
  - Quickly remove your pages from being viewable on the Internet.
  - May need to reload page in browser and/or delete cache.

EXERCISE #1
Create your Home page

- See handout
Creating Web pages
Overview

1. Create the Web page file using notepad
2. Preview the Web page in Internet Explorer
3. Upload the Web page to the server using SFTP
4. View the Web page in Internet Explorer

Creating Web Pages

1. Create the Web page file using notepad
   - Start > Run > notepad
   - index is a special filename
   - Use .htm or .html

   Sample HTML
   ```html
   <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
   <html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
   <head><title>My first Web page!</title></head>
   <body>
   Hello World!
   </body>
   </html>
   ```

Creating Web Pages

2. Preview the Web page in Internet Explorer
3. Upload the Web page to the server using SFTP
   - Host Name: uhunix.its.hawaii.edu
   - Username: UH Username
   - Port Number: 2222
   - Upload into the public_html folder
4. View the Web page in Internet Explorer
EXERCISE #2
Create a new Web page

- See handout

Modify existing Web pages

Overview

1. Download your Home page (index.html) using SFTP
2. Edit your Home page using notepad
3. Preview your Home page in Internet Explorer
4. Upload your Home page using SFTP
5. View your Home page in Internet Explorer

Modify existing Web pages

1. Download Home page
   - Same as uploading except you drag from the right (Web server) to the left (your computer)
2. Edit your Home page using notepad
   - HTML runs together
   - HTML tags are all upper-case
   - DOCTYPE tag is missing
   - <html> tag is missing additional information
   - <p> tag doesn’t have an end </p> tag
Modify existing Web pages
Basic HTML

- Special Tags that don’t have an end tag
  - `<br>`: Line break
  - `<hr>`: Horizontal Rule
  - `<img>`: Image
    - `src`: URL of the image.
    - `alt`: Short description of the image.

Additional Info: [http://www.w3schools.com/tags/](http://www.w3schools.com/tags/)

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Modify existing Web pages
Basic HTML

- Tables
  - `<table><table>`: table
  - `<tr><tr>`: row
  - `<td><td>`: cell

Table Example

```
<table>
<thead>
<tr>
<th>Col 1</th>
<th>Col 2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Row 1</td>
<td></td>
</tr>
<tr>
<td>Row 2</td>
<td></td>
</tr>
<tr>
<td>Row 3</td>
<td></td>
</tr>
</tbody>
</table>
```

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Modify existing Web pages
Basic HTML

- Links
  - `<a href="http://www.hawaii.edu/">Link text</a>`
    - `href`: URL of the link.
    - `title`: Short description of the link.
  - `<a href="..."> <img src="..."/></a>`
    - Clickable image that links to another page.

Additional Info: [http://www.w3schools.com/tags/](http://www.w3schools.com/tags/)
Modify Existing Web Pages

3. Preview your Home page in Internet Explorer
4. Upload your Home page to the server using SFTP
   - Host Name: uhunix.its.hawaii.edu
   - Username: UH Username
   - Port Number: 2222
   - Upload into the public_html folder
5. View your Home page in Internet Explorer
EXERCISE #1: Create Your Home Page

A. Start Internet Explorer

B. Verify that you do NOT already have a UH Personal Home page by going to http://www2.hawaii.edu/~uhusername/ where uhusername should be replaced with YOUR UH Username.

C. If you already have a UH Personal Home page, STOP. This tool will replace your existing Homepage if you continue.

D. Go to http://www.hawaii.edu/account/ and enter YOUR UH Username/password then click on the “Sign-in” button.

E. Under the “Personal Home Page Options” section, click on the “Create Home Page” link.
F. Edit the title of your Home (i.e. “Index”) page. This text will appear in the “title bar” (i.e. top blue bar above the menu) of Internet Explorer.

G. Type what you would like to have shown on your Home page then click on the “Continue” button.

H. A pop-up window will appear informing you that this process may take up to 2 minutes. Click on the OK button and wait until you see:

I. Click on the link to your Personal Home page to verify that it has been created.

J. Click on the “Logout” link in the upper-right corner of the page.
EXERCISE #2: Create a New Web Page using Notepad

A. Start notepad:
   a. click on the “Start” button
   b. choose “Run…”
   c. type “notepad”
   d. click on the “OK” button

B. Turn on “Word Wrap” by clicking on the “Format” menu and choose “Word Wrap”

C. Type the following:

```html
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
  "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml" xml:lang="en" lang="en">
  <head>
    <title>My first Web page!</title>
  </head>
  <body>
    Hello World!
  </body>
</html>
```

D. Save the file
   a. click on the “File” menu and choosing “Save”
   b. click on the “Desktop” icon
   c. type “helloworld.html” as the “File name:”
   d. choose “All Files” for the “Save as type:”
   e. choose “UTF-8” for the “Encoding:”
   f. click on the “Save” button
E. Preview the Web page in Internet Explorer
   a. start Internet Explorer
   b. click on the “File” menu and choose “Open”
   c. click on the “Browse” button
   d. click on the “Desktop” icon
   e. double-click on the “helloworld.html” file
   f. click on the “OK” button
   g. your screen should look like:

   ![Example of a web page preview in Internet Explorer](image)

F. Upload the new Web page to the Web Server by starting SFTP
   a. click on the “Start” button
   b. choose “All Programs”
   c. choose “SSH Secure Shell”
   d. choose “Secure File Transfer Client”

G. Click on the “Quick Connect” button

H. Type “uhunix.its.hawaii.edu” for “Host Name:”

I. Type YOUR UH Username for the “User Name:”

J. Type “2222” for “Port Number:”

K. Click on the “Connect” button

L. Type in YOUR password for your UH Username then click on the “OK” button
M. Double-click on the “public_html” folder

N. Click on the “helloworld” file in the left-pane and drag it to the right-pane. Release the mouse button when your pointer is above the right-pane.

O. Verify that the helloworld file has been uploaded properly by starting Internet Explorer and going to:

http://www2.hawaii.edu/~uhusername/helloworld.html

(note: replace uhusername with YOUR UH Username)