

Classwork #7

Creating and Publishing Your Own Web Page

You have been using web pages for a long time, and we have briefly discussed the World-Wide-Web and HTML in class. In this class you will create your own web page from scratch!

Creating a Web Page

Here is a template page with the most essentials. Follow the steps:

1. Create a `~/MA305/Classwork/CW7` directory and a file `index.html` in it.

Copy everything between the dashed lines into it (use the mouse), and then delete the blank space after each "<" and each "&". (I had to insert blanks to make the HTML tags show instead of being interpreted!)

```
=====

< HTML>< HEAD>

< title> My First Homepage < /title>

< BODY BGCOLOR="#000030" TEXT="#ff0000" LINK="#00ffff"
      VLINK="#00ffff" ALINK="#FF0000">

< Center>

< IMG SRC="photo.jpg" ALT="Your Name" HEIGHT=180 WIDTH=180>

< /Center>

< FONT SIZE=4>< !> Home Page under Construction < /!>< /FONT>

< HR size=1>

< CENTER>< H1>
?????'s Homepage
< HR width=70%>

< /H1>< /CENTER>

< H2> Some Favorite Web Sites: < /H2>

< OL>

< LI> < A href="http://gams.nist.gov">

< B> A Guide to Available Mathematical Software < /B> < /A>
```

```
< LI> < A href="http://www.siam.org/">
< B> Society for Industrial and Applied Mathematics < /B> < /A>
< LI> < A href="https://erau.edu/degrees/master/data-science">
< B> MS in Data Science @ ERAU < /B> < /A>
< /OL>
< HR size=3>
< UL>
< LI> < A href="https://erau.instructure.com/courses/144188">
< B> MA305 Canvas Site < /B> < /A>
< LI> < A href="http://seismo.berkeley.edu/~rallen/resources/html/HTMLPrimerAll.html">
< B> A Beginner's Guide to HTML from NCSA < /B>< /A> < I> superb < /I>
< LI> < A href="http://pages.erau.edu/~YOUR_ERNIE_NAME">
< B> My own web page! < /B> < /A>
< /UL>
< HR size=3>
< PRE> Preformatted text. Type a couple of lines here to see what happens, e.g. your name, major, ...
< /PRE>
< HR size=3>
< ADDRESS>
email: & nbsp; < A HREF="mailto:????@my.erau.edu"> ????@my.erau.edu
< /ADDRESS>
< I> & copy;2022 & nbsp; ???? < /I>
& nbsp; < FONT SIZE=1> Last modified: 10 November 2023 < /FONT>

< /BODY>
< /HTML>
=====
```

2. Save the file. To see how it appears on the web, open the index.html file in a web browser: click on the file index.html, select Open with... to open a new browser, then on it click on File, Open File..., and in the popup form under Selection type: index.html [or: MA305/Classwork/CW7/index.html]

There you have it! Move the browser to the side of your xterm, and observe how each HTML directive is rendered.

Observe that most HTML markup tags come in pairs:

```
< HTML> ... </HTML>
< TITLE> ... </TITLE>
< BODY> ... </BODY>
< CENTER> ... </CENTER>
< FONT> ... </FONT>
< H1> ... </H1>      , < H2> ... </H2>
< OL> ... </OL>      , < UL> ... </UL>
< B> ... </B> , < I> ... </I>
```

The all-important Anchor: < A href=...> ... with the web address specifier: HREF="..."

And some don't have a closing match: < P> , < BR> , < HR>

What draws a line? What prints italics? bold?

Note that HTML is NOT case sensitive, so < b> is same as < B>.

3. In your index.html file, replace each "?????" with your name. Save (:w). To see the changes, reload it on a web browser.
4. Fix whatever else needs to be fixed up.

In particular, replace the "YOUR_ERNIE_NAME" with the real thing. Save (:w), and reload the page. Fix your email address at the bottom. Test it by sending yourself a message!

5. Place your photo (saved as photo.jpg) in the same directory. Send the picture by email, download it to your computer.
6. Change anything else you want, like putting your name in the title, altering some of the SIZE values, etc. Experiment a bit to see how things work. Remember to save the file and reload it on the browser after each change.

7. Want to learn more about HTML tags? There are many more, and more are created with each new version of HTML. Here is a good place: [NCSA--A Beginner's Guide to HTML \(berkeley.edu\)](http://www.ncsa.berkeley.edu/html/guide.html)
8. Great, now you have a web page but nobody else can access it! To "publish" it takes a little bit more work. It can be done via your webcat (ERAU Unix) account. All you need to do, in your webcat account, is:
 - place your index.html file in the public_html dir
 - place your photo.jpg file in the public_html dir
 - make the file readable by all (How?)

That's all!

Think of the steps involved, you actually know how to do them all!

Try ... without looking below the heavy black line!!!

The URL of your very own web page will be: **http://pages.erau.edu/~user_name** where user_name is your ERNIE login name, which you have already set at item 4. Click on it. It fails of course, till you do what you must!

You'll know you did it right when you can see your page with "http://pages.erau.edu/..." showing at the URL!

Don't be confused about what you see is coming from. One is the local file on the local machine (classroom computer), with URL: file:...

The other is the "published" page, on webcat.db.erau.edu, with URL: http://pages.erau.edu/...

9. Finally, submit your homepage, no, not the file, just its URL!!!

Now you can brag to your friends that you created your own web page (...almost) from scratch! And when you have some time to spare, check out the A Beginner's Guide to HTML from your new page, you'll love it...

Publishing Your Web Page

1. Of course, first you need to transfer your homepage file to the ERAU Unix machine... How do we transfer files between machines?

From an xterm, scp your index.html file to your Webcat account. Remember how to scp?

```
scp index.html username@webcat.db.erau.edu:public_html
```

Similarly, scp photo.jpg to the same location.

```
scp photo.jpg username@webcat.db.erau.edu:public_html
```

2. Login to your Webcat account, then:

- Check if you send the files properly.

```
ssh username@webcat.db.erau.edu
```

If above does not work try:

```
ssh -oHostKeyAlgorithms+=ssh-dss username @webcat.db.erau.edu
```

```
ls
```

```
cd public_html
```

```
ls
```

- Make index.html file readable by all

```
chmod a+r index.html
```

- Try to access your page on a web browser at the URL

```
http://pages.erau.edu/~your_ERNIE_name
```

3. Getting "Not Found"? ...think...

Is setting the permission on just the file enough?

Are the directories containing it accessible?

How do we make a directory accessible by all?

Fix the permissions and try again...

4. I hope you found it finally.

Check the permissions you just set, and the permissions on your home dir.

What are the minimal permissions on public_html that will work?

Remember to submit the URL of your page! and answer the last question in 4 above.