

Creating and Publishing Your own website

MAC Version

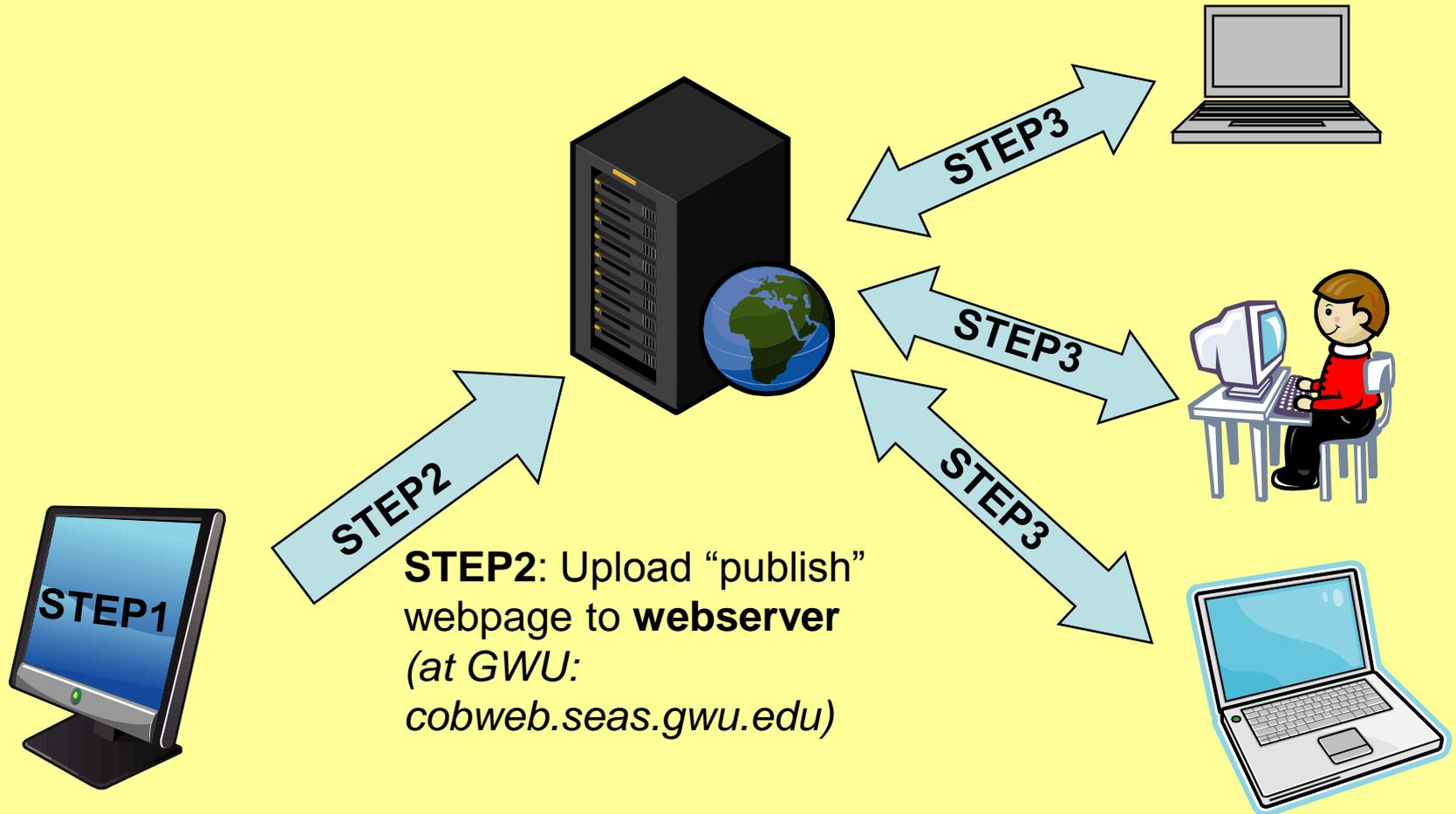
SEAS 001

Professor Ahmadi

Project Overview

- Create a basic web page using a “text editor”
- Publish webpage to GW school server
- Edit web page using an open source HTML editor
- Create three links from basic webpage to:
 - Your ECE001, MAE001, APS001 presentation
 - Your resume
 - Your schedule
- Present web site to SEAS 001 classmates

Overview of Creating a Website



STEP2: Upload “publish”
webpage to **webserver**
(at GWU:
cobweb.seas.gwu.edu)

STEP1: Create webpage
on your personal workstation

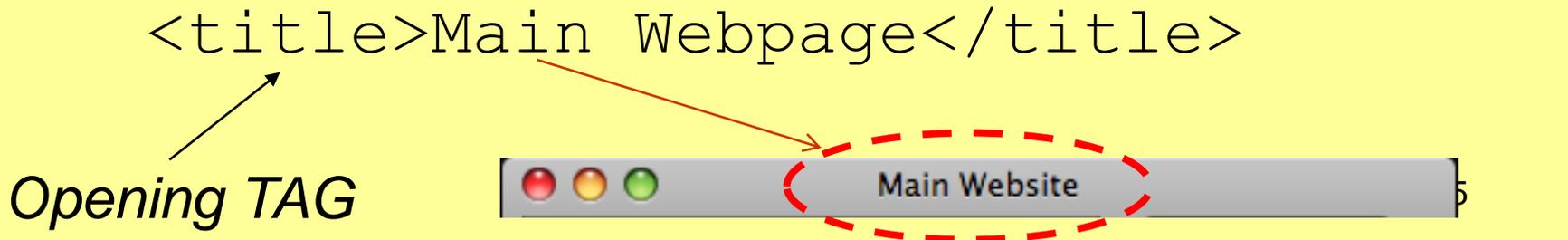
STEP3: Webpage can now
be viewed *anywhere* on the
Internet

Creating Main Webpage

- The main webpage must be called:
index.html
- It is a simple text file, we can use any text editor to create
- On a MAC, we use NANO to create this file, DO NOT use an editor like MSWord.

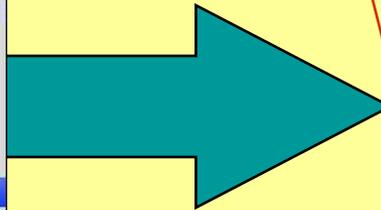
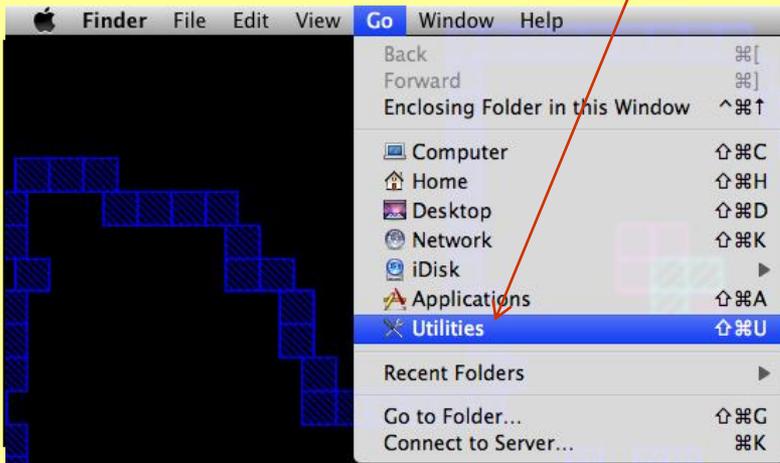
Writing HTML

- HTML is the language web browsers like the Internet Explorer, Firefox, or Safari can read
- It uses opening and closing “TAGS” to identify different sections of a webpage.
- Example, to mark the TITLE of a webpage:



Writing HTML

- Begin by opening a terminal window.
(Select Go->Utilities->Terminal)

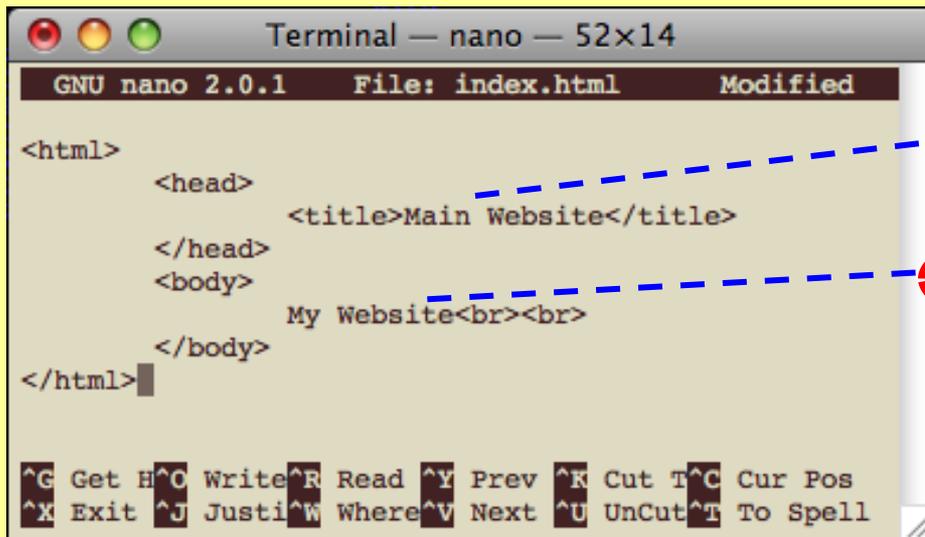


Writing HTML

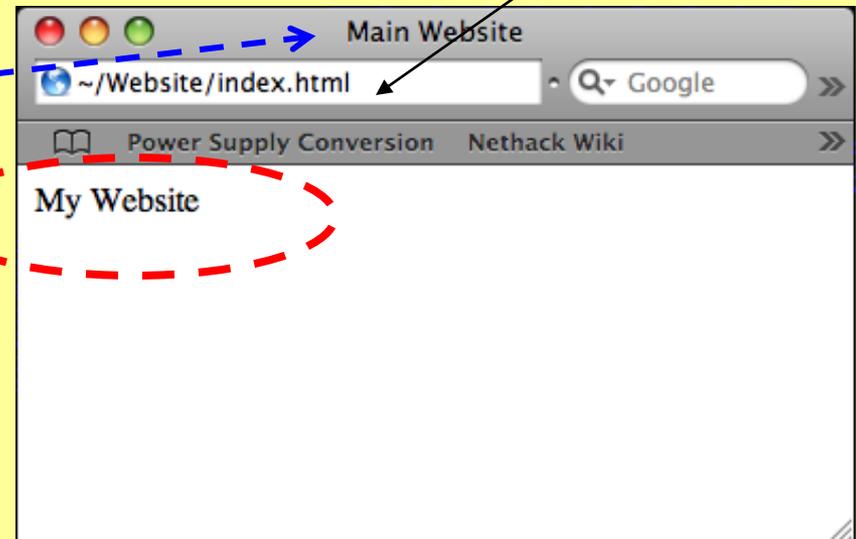
- Create a new directory called Website by typing: `mkdir ~/Website`
- Change your current directory to Website by typing: `cd ~/Website`
- Open up a text editor to create your index.html file by typing: `nano index.html`

Writing HTML

- Type in what you see below.
- Press <ctrl> + <x> to quit. You will be prompted to save. Press <y> followed by enter to save your new webpage.
- Open a web browser and view the file by typing:



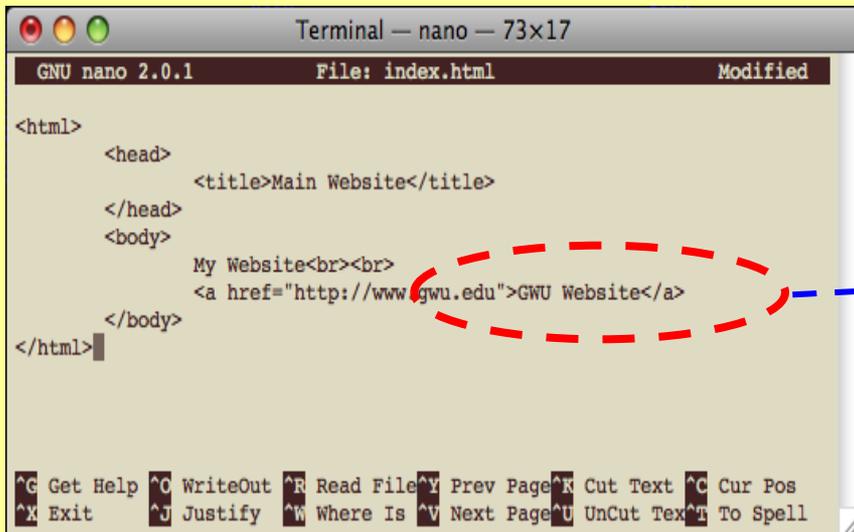
```
Terminal — nano — 52x14
GNU nano 2.0.1 File: index.html Modified
<html>
  <head>
    <title>Main Website</title>
  </head>
  <body>
    My Website<br><br>
  </body>
</html>
^G Get H^O Write^R Read ^Y Prev ^K Cut T^C Cur Pos
^X Exit ^J Justif^W Where^V Next ^U UnCut^T To Spell
```



Writing HTML – Adding a Link

- To add a “Link” to a webpage, we use the following TAG sequence:

```
<a href="http://www.gwu.edu">GWU Website</a>
```
- This will add “HYPERLINK” to your webpage



```
Terminal — nano — 73x17
GNU nano 2.0.1      File: index.html      Modified
<html>
  <head>
    <title>Main Website</title>
  </head>
  <body>
    My Website<br><br>
    <a href="http://www.gwu.edu">GWU Website</a>
  </body>
</html>
^G Get Help  ^O WriteOut  ^R Read File ^Y Prev Page ^K Cut Text  ^C Cur Pos
^X Exit      ^J Justify   ^W Where Is  ^V Next Page ^U UnCut Tex ^T To Spell
```



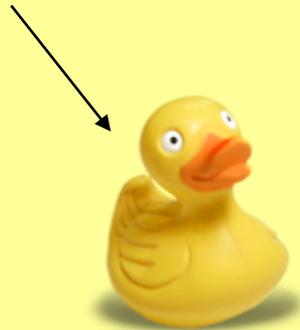
Uploading webpage to webserver

- To “publish” our webpage, we transfer the file: index.html to the GWU SEAS webserver
- To do this, we use a “Secure File Transfer Client” or SFTP
- The SEAS’s SFTP server is called: **cobweb.seas.gwu.edu**
- Your seas username and password are required to login
- For Mac users, we will use cyberduck

- For Home, free SCP clients are available from:
 - *PC users:*
 - <http://www.seas.gwu.edu/~seas001/fall07/downloads/winscp405.exe>
 - <http://winscp.net/eng/download.php>
 - *Mac users:*
 - <http://www.seas.gwu.edu/~seas001/fall07/downloads/Cyberduck-2.8.1.dmg>
 - <http://cyberduck.ch/>

Uploading Webpage to server

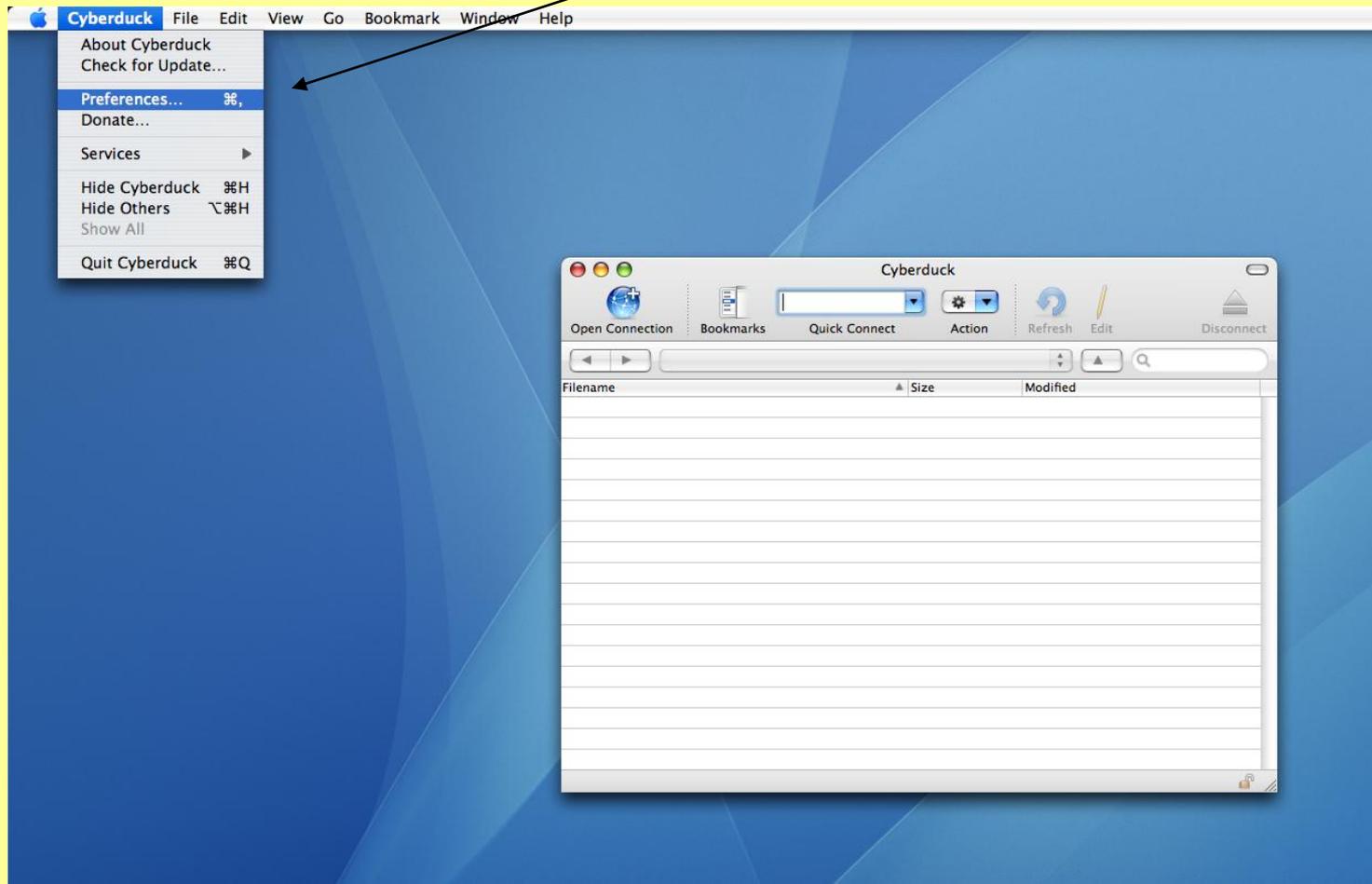
- From the “Macintosh Harddrive” on the desktop, click on “Applications”
- Open up “Cyberduck” SFTP client (look for the duck icon)



- If you do not see the icon, check with your TA, if it is not installed, you can download cyberduck from:
- <http://www.seas.gwu.edu/~seas001/fall07/downloads/Cyberduck-2.8.1.dmg>¹

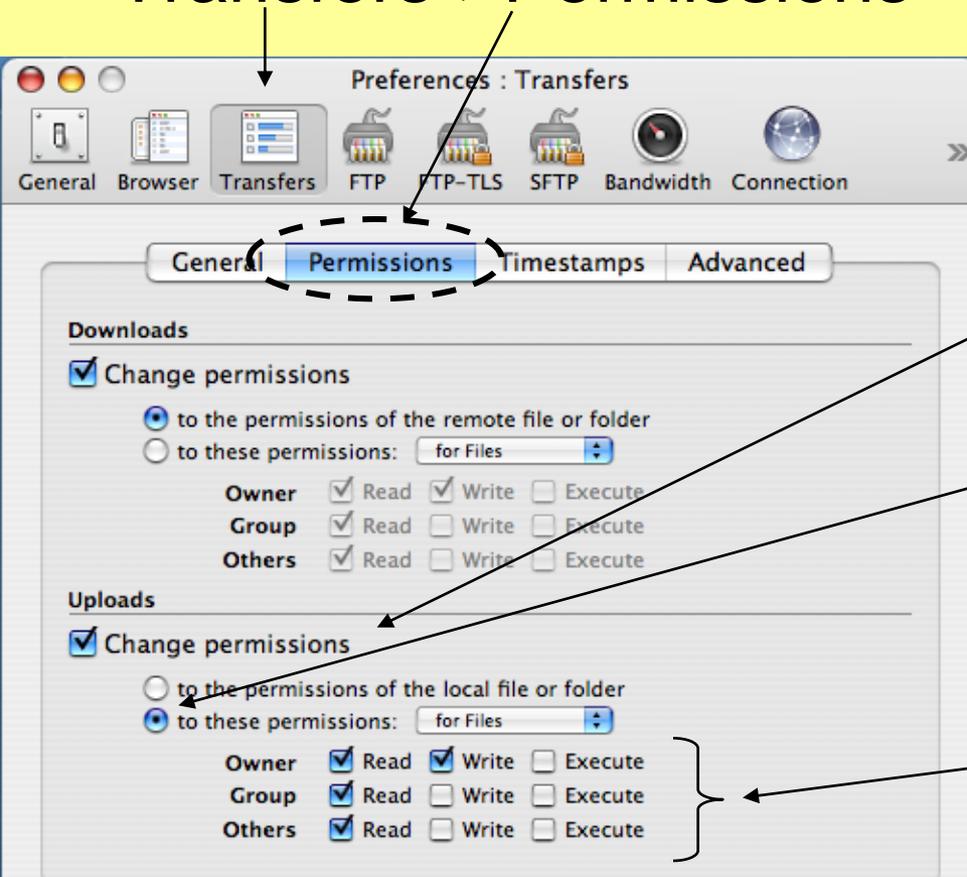
Uploading Webpage to server

- Once Cyberduck is open, from the TOP menu, choose “Cyberduck->Preferences”



Uploading Webpage to server

- In the Preferences Window, click on:
Transfers->Permissions



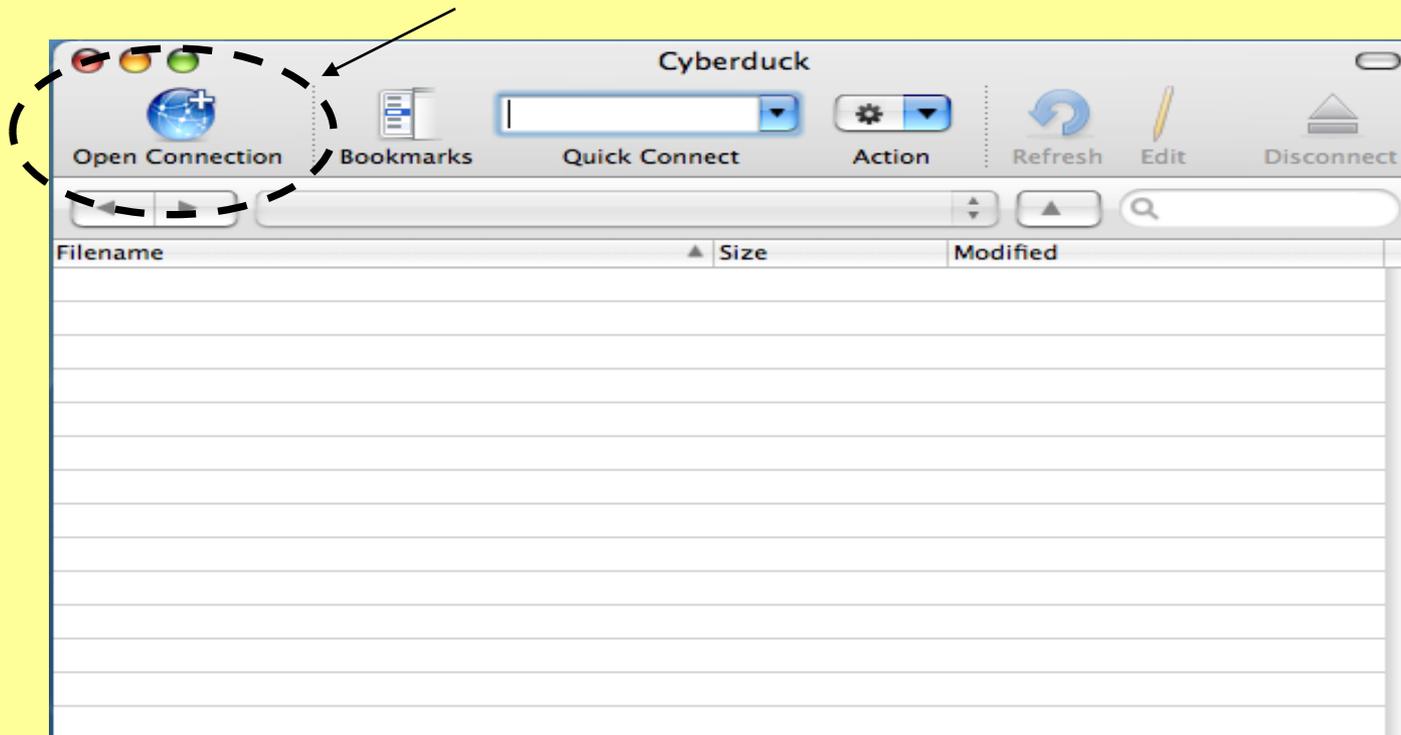
Under the “**Uploads**” section
Click on:
“Change Permissions”

Click on:
“to these permissions”

Set the check boxes as you see in
the screenshot

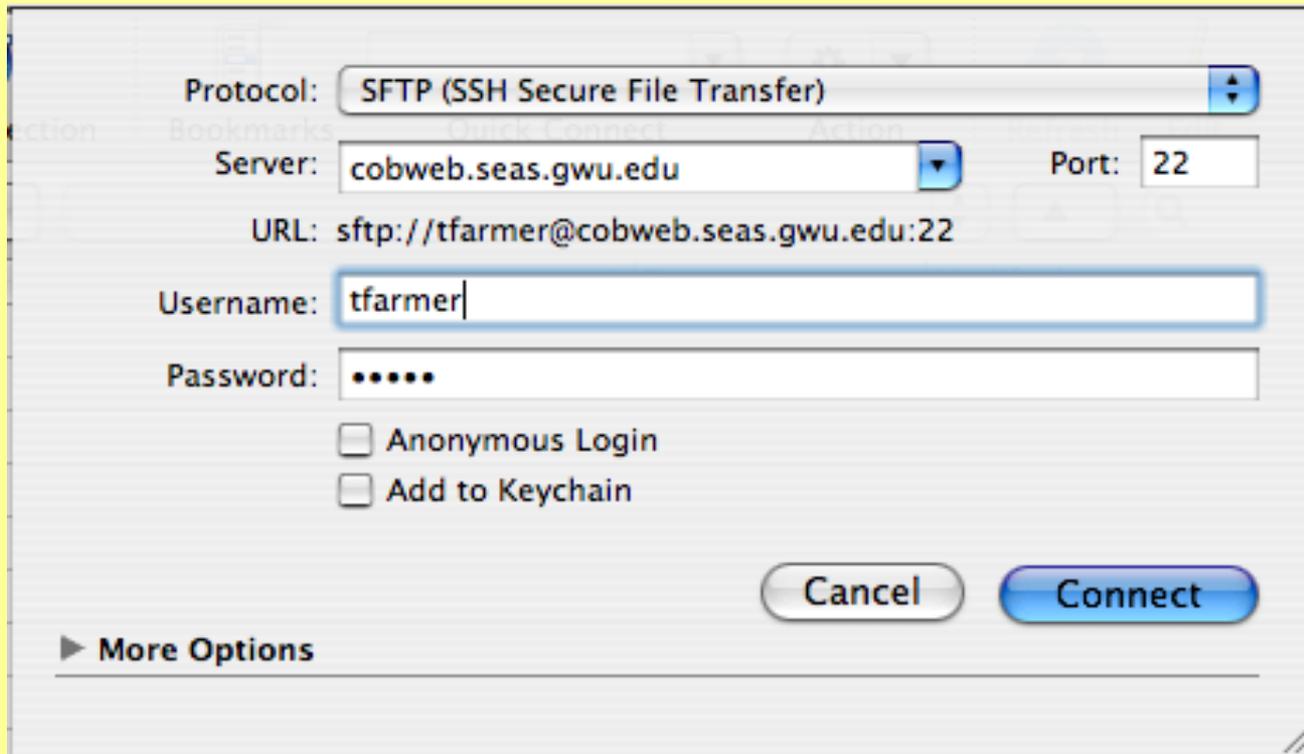
Uploading Webpage to server

- Close the Preference window
- Click “Open Connection”



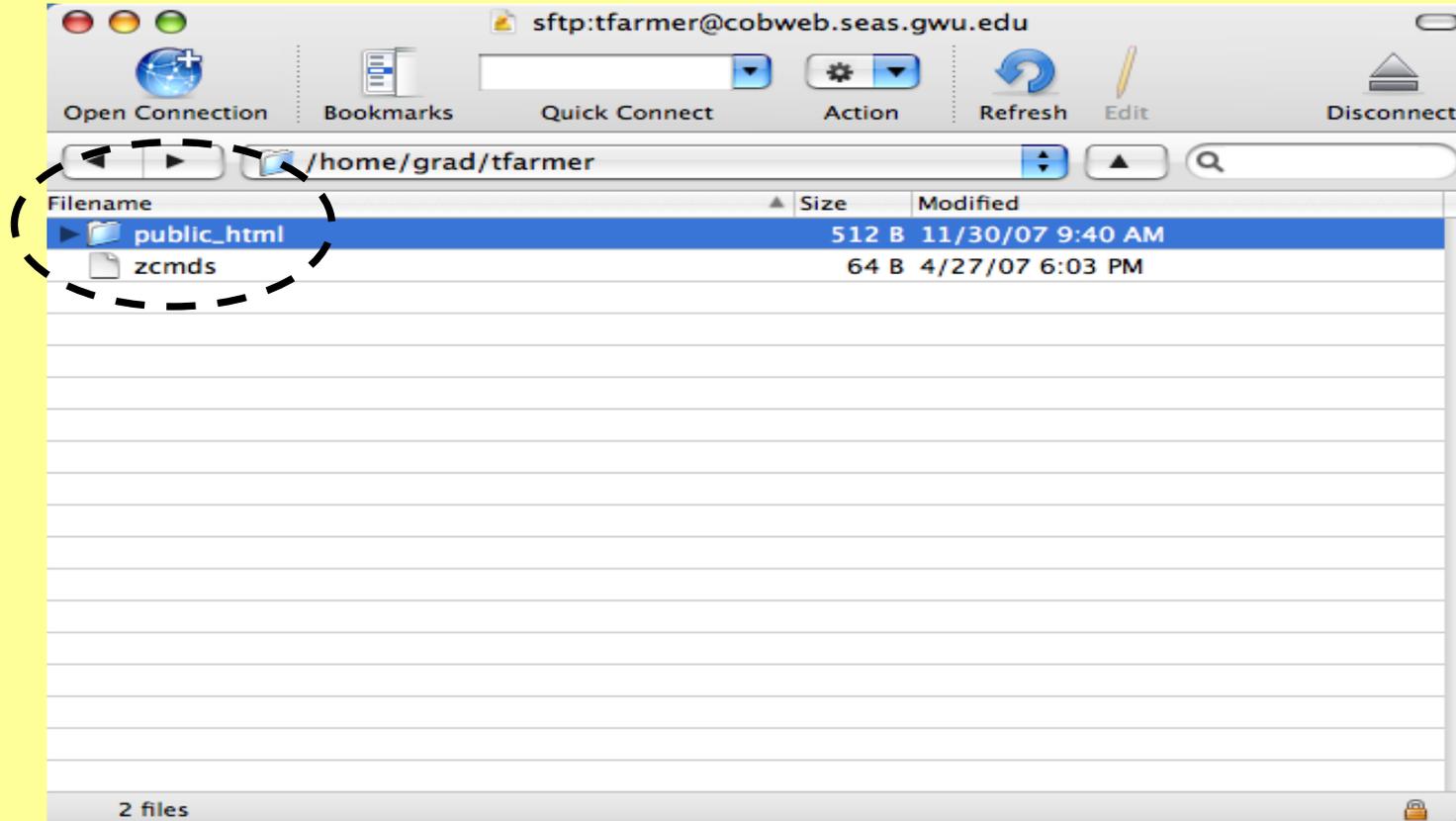
Uploading webpage to webserver

- Set the Protocol to: **SFTP (SSH Secure File Transfer)**
- Enter for server: **cobweb.seas.gwu.edu**
- Your seas username & password



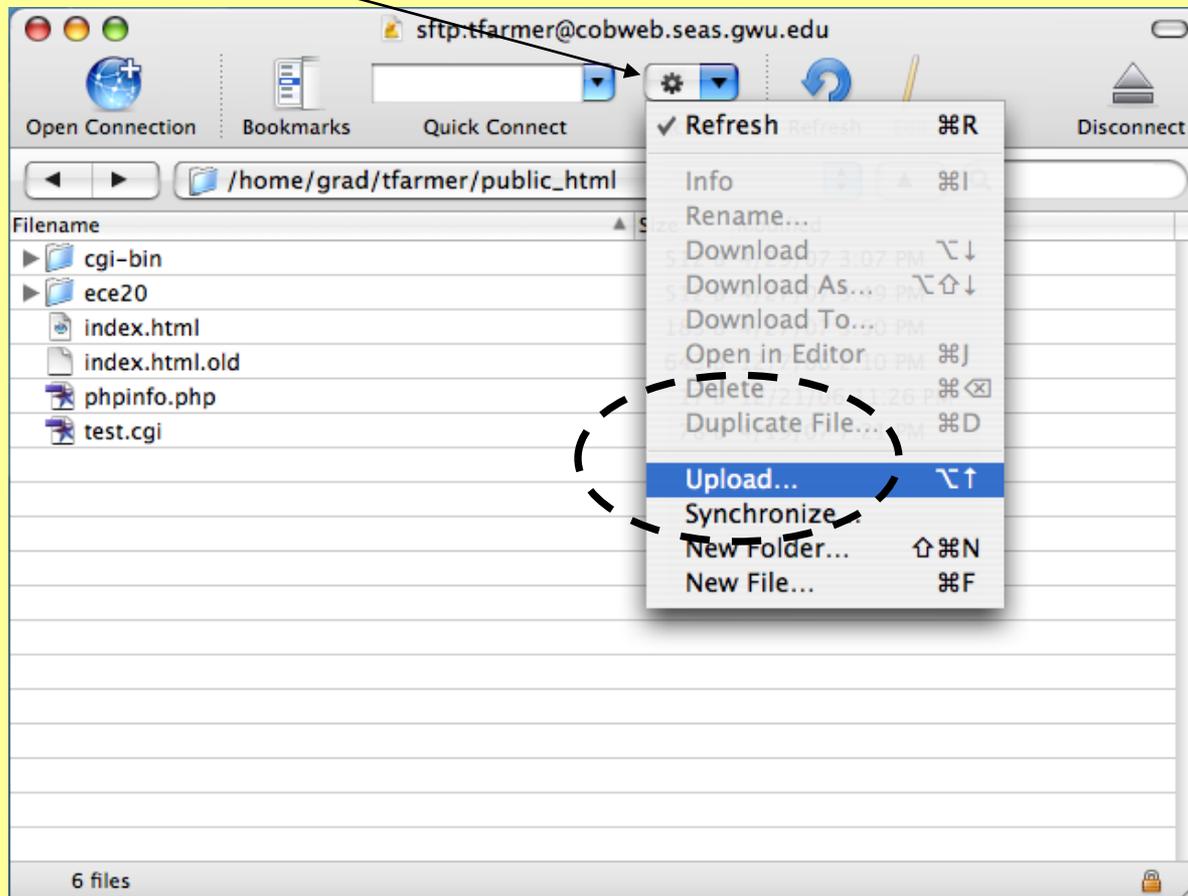
Uploading Webpage to server

- After connection is made, click to open the “public_html”



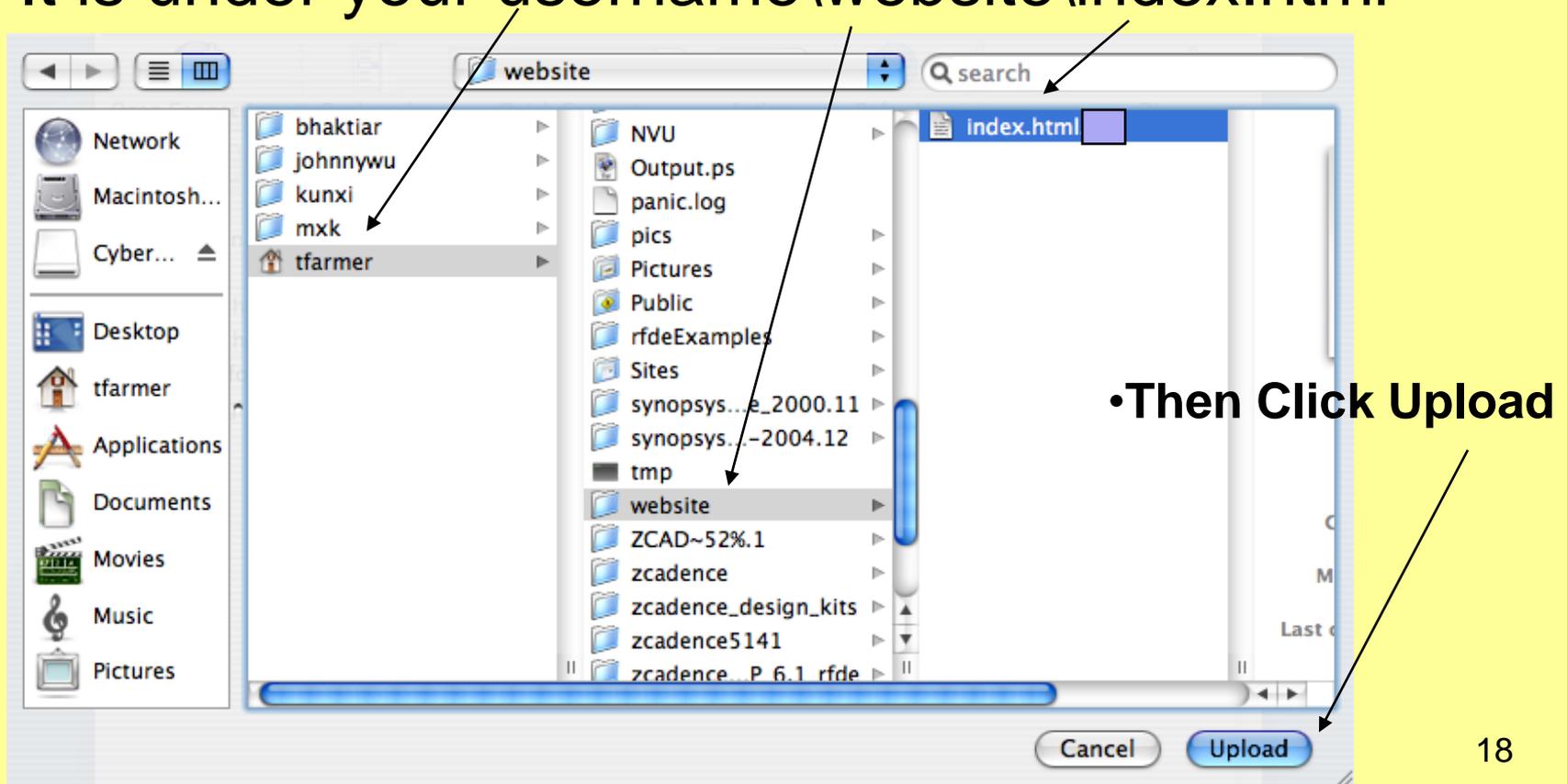
Uploading Webpage to server

- From the “*” menu, click on “Upload”



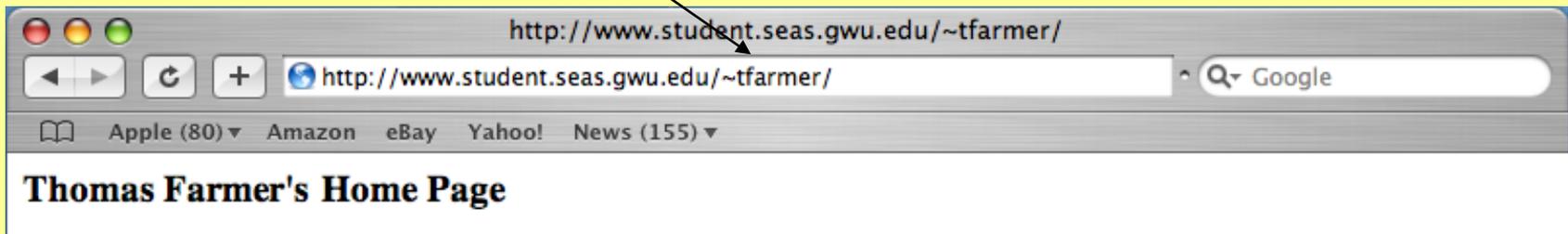
Uploading Webpage to server

- Navigate to the “index.html” file you created
- It is under your username\website\index.html



View Your website

- In the browser, navigate to:
- <http://www.student.seas.gwu.edu/~tfarmer>
 - Change “tfarmer” to your seas username



HTML Editors

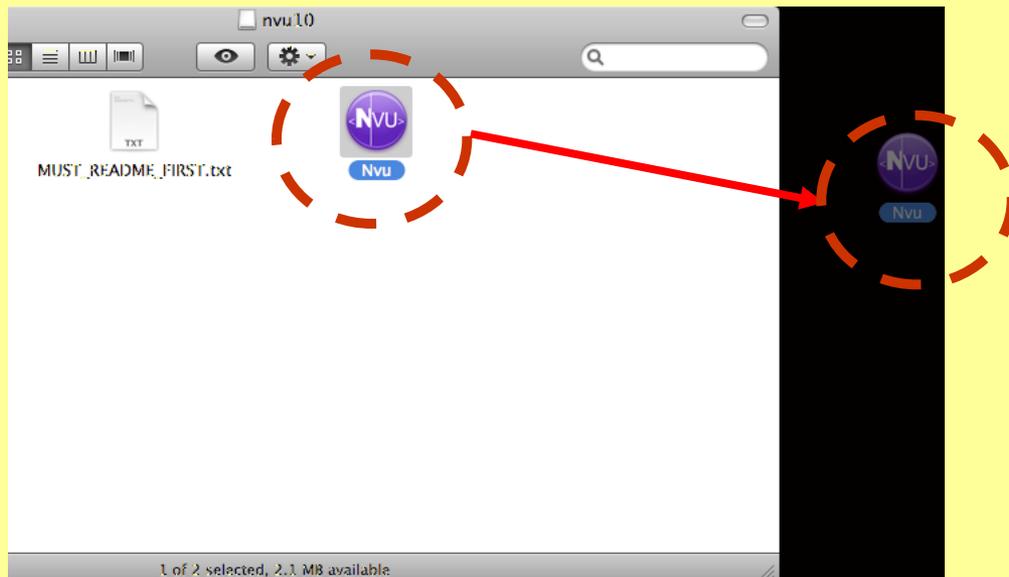
- Manually typing HTML files is tedious
- To produce more interesting webpages, quickly, an HTML editor is needed
- There are many different commercial HTML editors: Dreamweaver, Microsoft Front Page
- For this class, we will use an “opensource” editor called: N View
- We must download and install this editor on your local workstation

Download Open Source HTML Editor

- Download PC version from:
- <http://net2.com/nvu/download/nvu-1.0-win32-full.zip>
- Download MAC version from:
- <http://bluegriffon.org/freshmeat/1.5.2/bluegriffon-1.5.2.mac.dmg>
- Download other versions from:
<http://net2.com/nvu/download.html>
- (It is preferable to use the safari web browser when downloading the DMG archive)

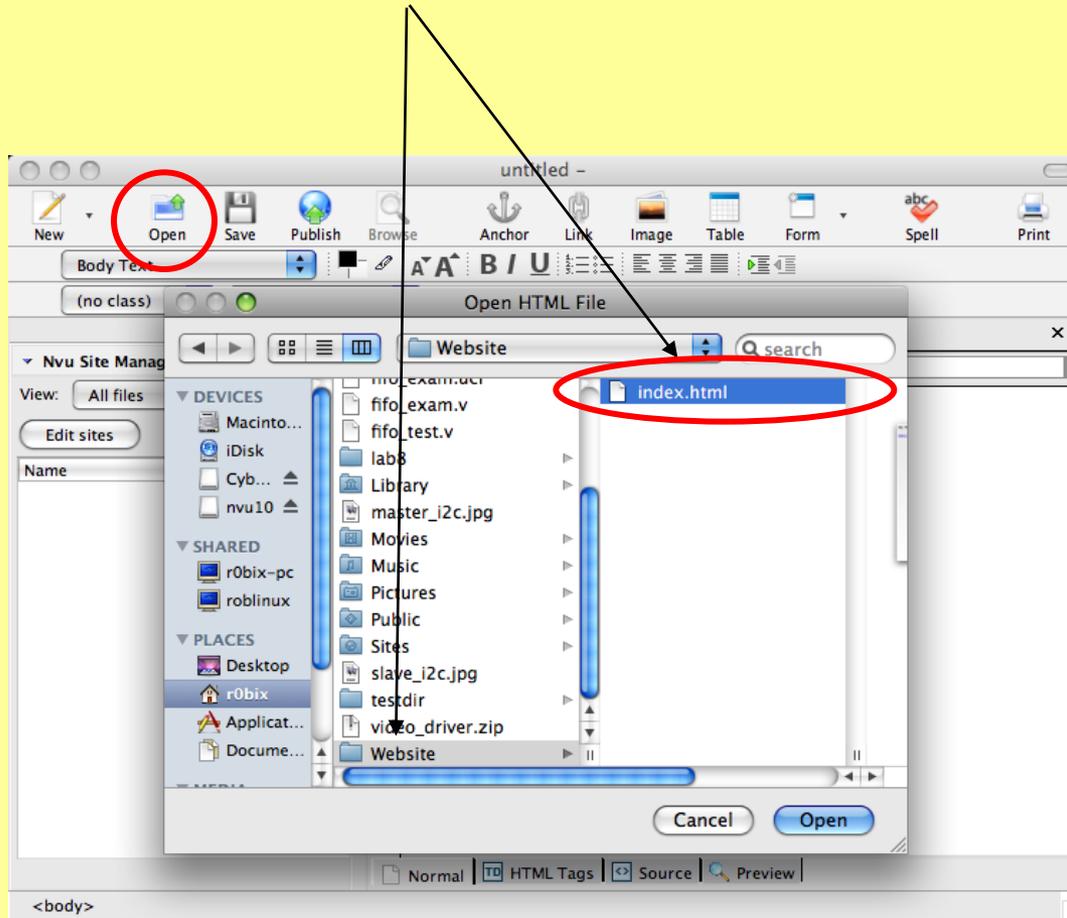
Install Open Source Editor on PC

- If it doesn't automatically open, double click on the DMG file.
- Drag the Nvu file to the desktop.
- Double click on the file you just placed on your desktop to start NVU

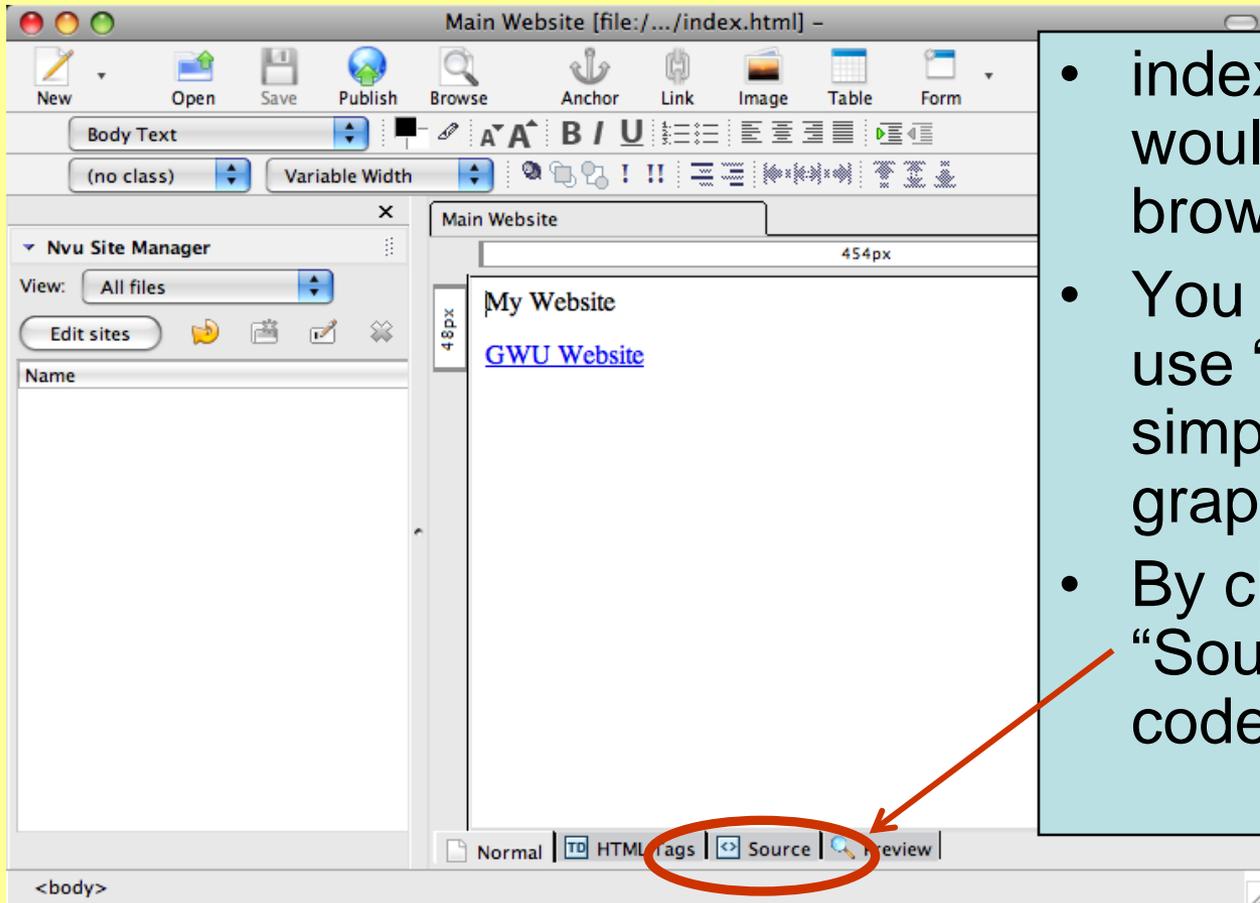


Using the HTML Editor

- Open the file: ~/Website/index.html

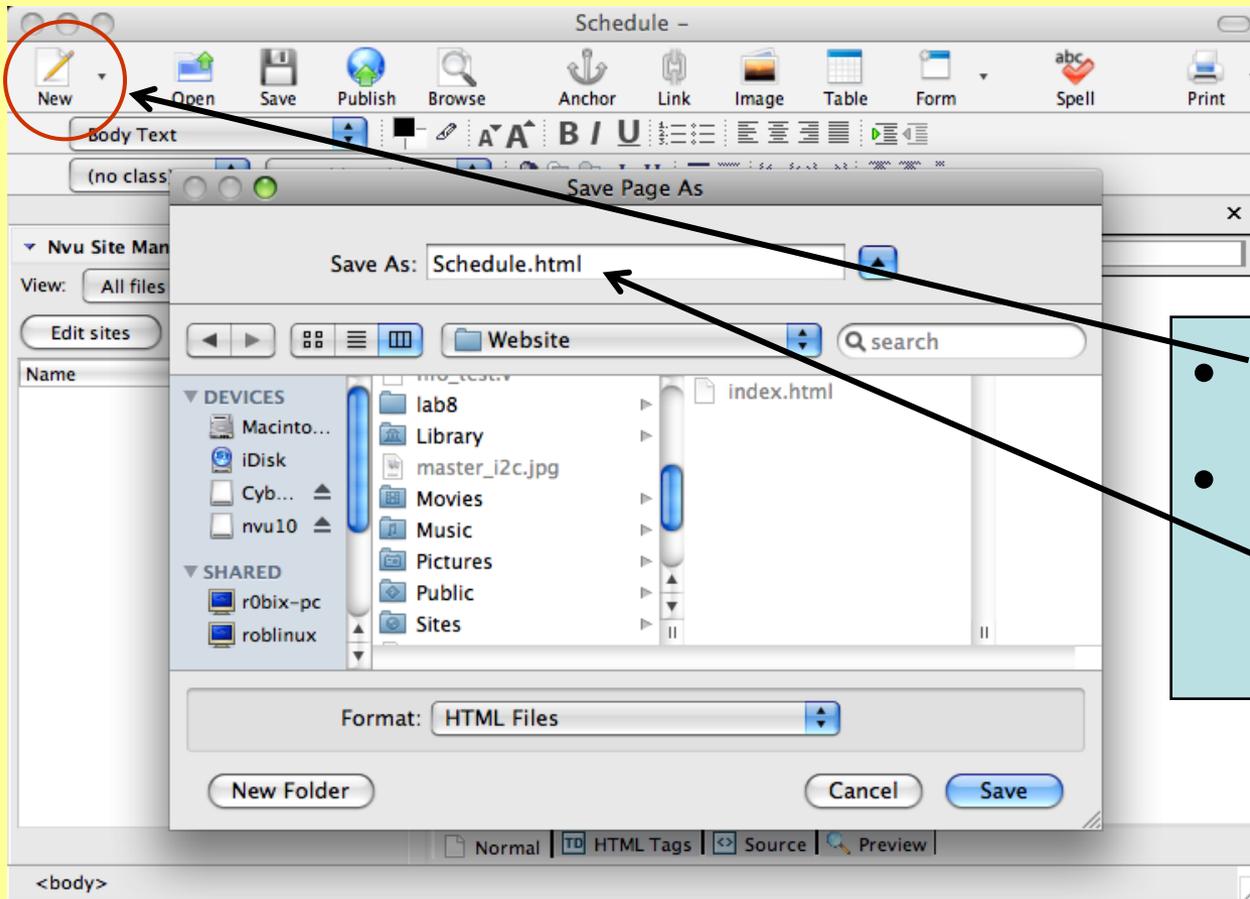


Using the HTML Editor



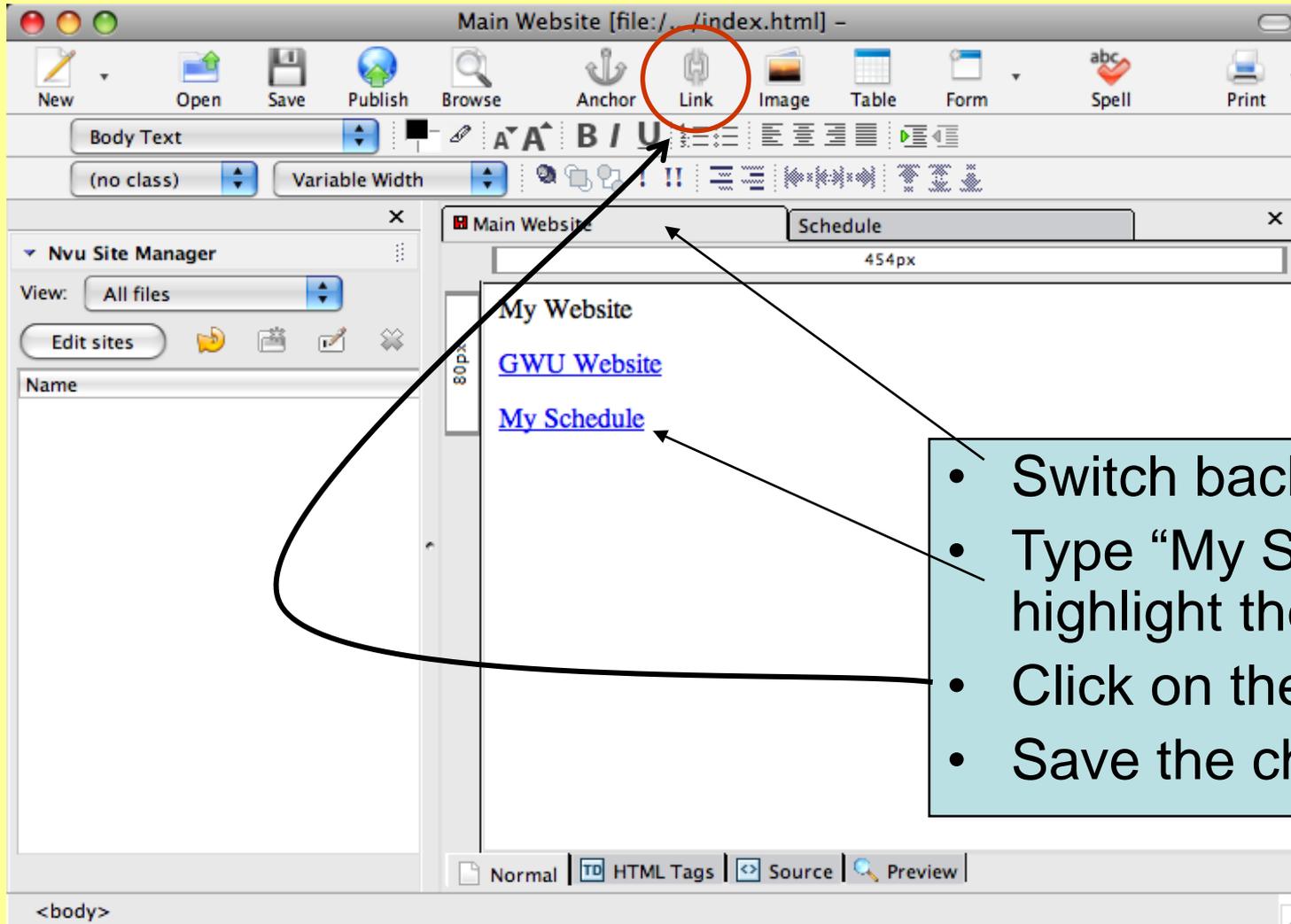
- index.html is shown as it would be in a web browser
- You no longer need to use “TAGS”, one can simply enter text or graphics
- By clicking on the “Source” tab, the HTML code can be viewed

Creating Schedule Webpage



- Create a new page
- Save it as:
~/Website/schedule.html

Linking index.html to schedule

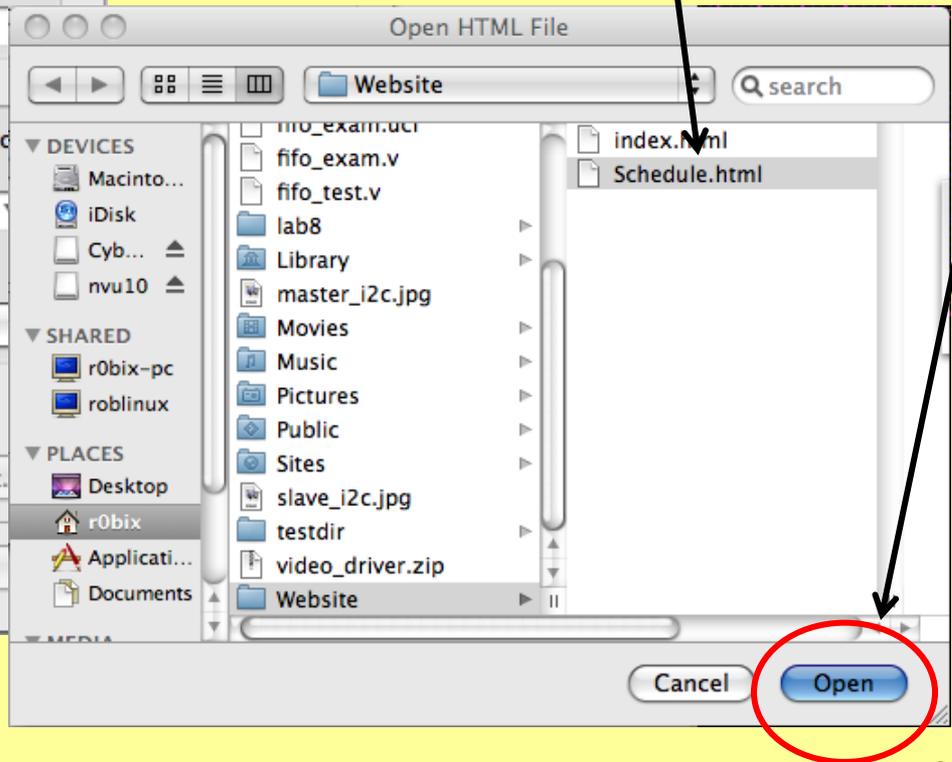
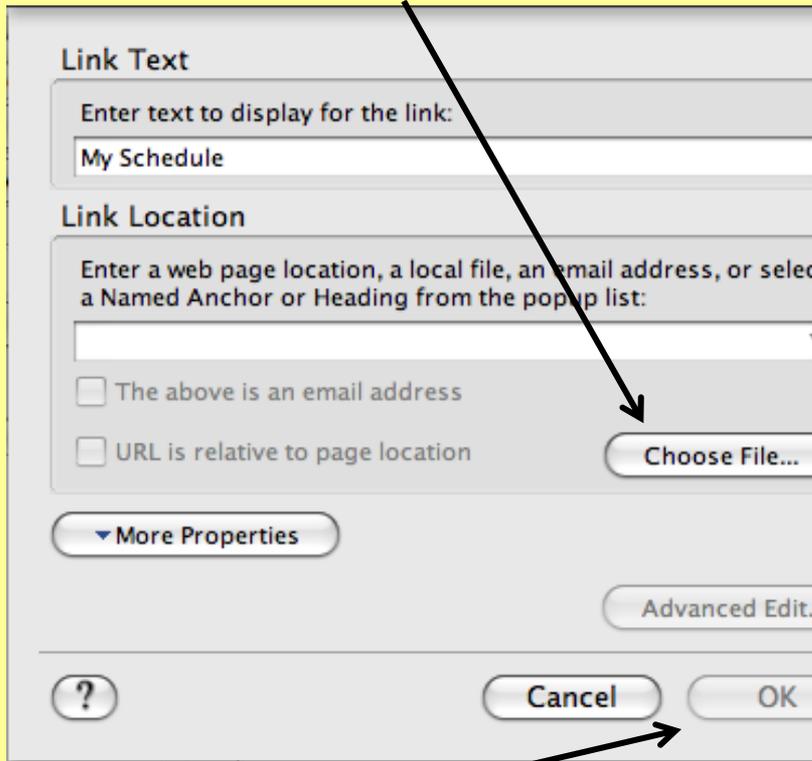


- Switch back to index.html
- Type "My Schedule" and highlight the text
- Click on the "LINK" button
- Save the changes

Link to schedule.html

1. Click on "Choose File"

2. Choose the schedule.html file, then click open

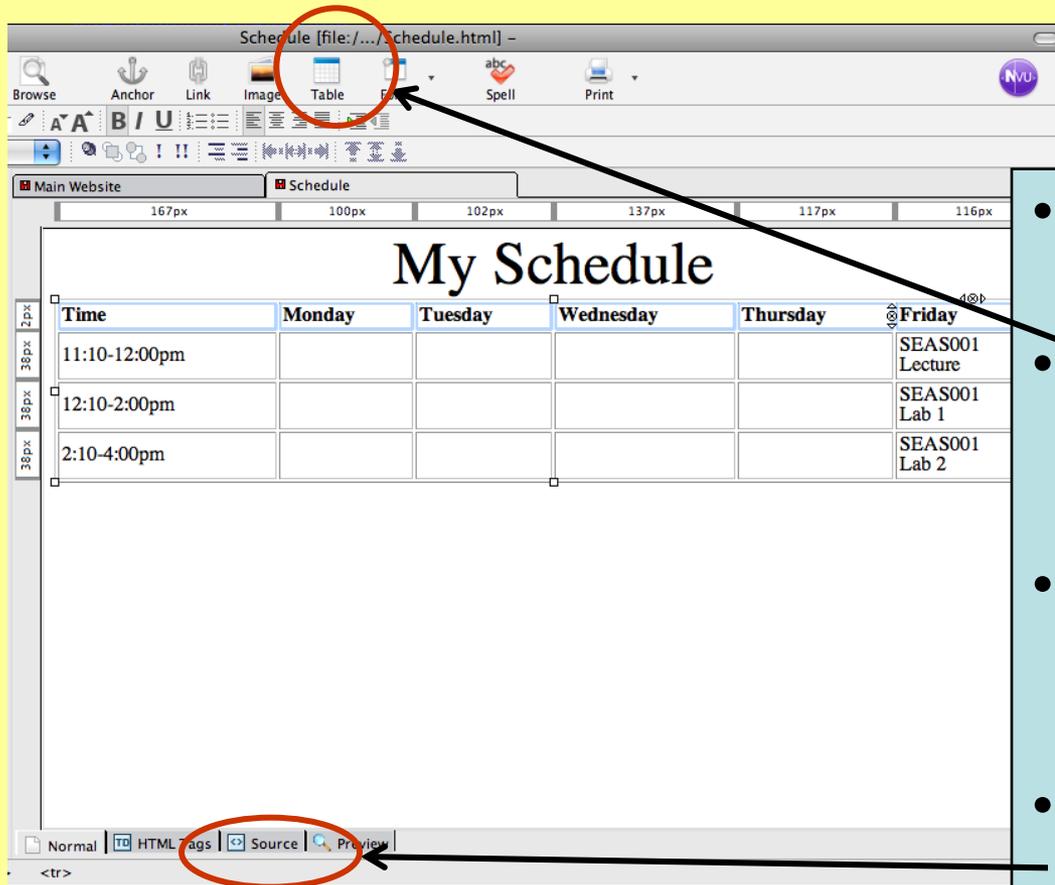


3. Click on OK when done

Links

- Links can be to:
 - 1) Another webpage
 - 2) Another website
 - 3) Any type of file
 - Example: a power point presentation, document, excel file, movie file, etc.
- The link we just created is an example of linking index.html to another “file” called: schedule.html

Update Schedule Page



- Switch back to your “schedule” page
- Use the “Table” icon to create a schedule similar to the one on the left
- Save the changes when have finished making changes
- Click on the “Source” tab to see the HTML code for the table

Upload new pages to server

- Using “Cyberduck” upload the new pages you’ve made
 - Schedule.html
 - Any changes to index.html
 - Resume.html

To Do During Lab

- Create a page called: **resume.html (or resume.doc)**
 - If you already have a resume, download it to the **website** folder
- Link resume.html (or .doc) to your index.html page
- Create a power point presentation describing your ECE001, MAE001, APS001, etc. project
 - Create a link from index.html to your presentation file
- Add your Matlab results in the form of a word document from the SEAS matlab project from week 3
- Customize your index.html (add color!)
- Publish all the above files to your website
- Be prepared to present your website, and power point presentation next week
- **NOTE: This is the suggested assignment for your work during the lab. However, please refer to the [project presentation and report guidelines](#) for the detailed list of required content for your webpage.**