Warm up Questions:

- **Question**: What are the chunks of data that are sent over the internet called?
- **Question**: What protocal is in charge of dividing the data that goes over the internet into chunks?
- Question: Give an example of a valid IP address.



Overview of Today's Topics

- Announcements
- Overview of Assignment 2
- Good and bad websites
- Websites and Webpage organization
- index.html \rightarrow importance of
- HTML
- Break
- BlueGriffon review

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Announcements

- Exam Schedule \rightarrow our exam is scheduled for 2PM on Thursday, April 23rd
- Poster Assignment are marked
- You can ask for a remark but I remark the whole assignment and your mark could go lower.
- Assignment 2 is due Friday, March 13th
 - I will do a demo for assignment 2 next week.
- PLEASE try to hand it in on Wed or Thur to make your life easier!

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Assignment 2

- Two nice examples from previous years to get you thinking!
- http://cs1033.gaul.csd.uwo.ca/~lreid2/other/st udent25/major/references.html
- http://cs1033.gaul.csd.uwo.ca/~lreid2/other/st udent I 5/

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Announcements

Web Assignment

- IT will take you longer than you think, give yourself LOTS of time to finish it and to hand it in (Hand it in on before Wednesday, the labs will be VERY busy on Thursday and Friday).
- Hints:
 - Remember your titles
 - Think about layout, consistency, ease of use!
 - Follow the specs
 - Use a table for a clean layout (put the banner in the top row and content in the bottom row)
 - Common Mistakes → http://www.csd.uwo.ca/~lreid/cs1033/assignment3/Samples OfCommonMistakes/ Slide 8 of 54

Announcements • Web Assignment Hints THINGS THAT CAN GO HORRIBLY WRONG IS http://cs1033.gaul.csd.uwo.ca/~lreid2/other/student1/ http://cs1033.gaul.csd.uwo.ca/~lreid2/other/student2 id2/other/student3/assign3/howtohelp.html (need to scroll for buttons, bullets, banner) http://cs1033.gaul.csd.uwo.ca/~Ireid2/other/student9/major/ (consistency) http://cs1033.gaul.csd.uwo.ca/~lreid2/other/student19/ http://cs1033.gaul.csd.uwo.ca/~Ireid2/other/student20 (edges) http://cs1033.gaul.csd.uwo.ca/~lreid2/other/student14 (scrolling and banner on next page) http://cs1033.gaul.csd.uwo.ca/~lreid2/other/student22 http://cs1033.gaul.csd.uwo.ca/~lreid2/other/student18/Contact%20Us.html (file names and button movement) • THINGS THAT CAN GO RIGHT © http://cs1033.gaul.csd.uwo.ca/~ireid2/other/student8/assign3/registration.html
 http://cs1033.gaul.csd.uwo.ca/~ireid2/other/student22/assign3/

- http://cs1033.gaul.csd.uwo.ca/~Ireid2/other/student15/index.html

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- Paragraphs \rightarrow Centering \rightarrow DON'T
- Hyphens on lists
- Emails links
- Back to top, anchors
- Think about link colours
- Link lengths
 - http://www.csd.uwo.ca/images/CSD_long_photo_16.jpg
 - VS. Middlesex
- Common Mistake: renaming files/folder...this will TOTALLY SCREW up your website if you do not do it correctly!

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Things to remember, especially for Web Assignment and Major Assignment

- Keep the menu in the same place on every page. (either the top or the left, it is up to you)
- Should not have to scroll horizontally
- Should not have to scroll vertically to see navigation buttons
- Keep the colours consistent on every page
- Keep the layout fairly consistent on every page
- Should always have a way to get home
- Long pages should have a "Back to Top" button

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How to do Web Assignment • Colours → look at: <u>http://kuler.adobe.com/</u>

- https://www.design-seeds.com/
- Marks for:
 - Nice Banner
 - Good Colour Scheme
 - Alt/title tag on banner/images
 - No scrolling horizontally EVER at 1000 pixels
 - Consistency in the layout of the pages and the buttons/NICE LAYOUT ON EVERY PAGE
 - NO Underlining

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• Roll over buttons get 1 or 2 marks more

- PROPERTY TITLES! Website Web Page
 - Antonio's Restaurant Home
 - Antonio's Restaurant References
- Must use table to lay things out
- · Headings on pages
- Use an image for each page/good size
- Layout paragraphs well (don't squish on edge)
- Bold/highlight headings

What do you think of these sites?

- http://www.brescia.uwo.ca
- http://www.margarethe-vanderpas.com/
- http://www.mariasemple.com/
- https://wrightwoodfurniture.com/
- www.distancetomars.com
- https://etch.co/ (hmmm???)
- https://www.newyorker.com

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How about these sites? • https://history.aip.org/climate/index.htm http://www.lingscars.com • http://www.jamilin.com/ • http://www.gatesnfences.com/ Slide 17 of 54

Good Website Design Tips

- http://www.youtube.com/watch?v=JQwTqt8gkjM
- Have something valuable to offer \rightarrow provide something <u>useful</u> or interesting
- Don't distract with blinking, animated GIFs, autoloading sound, too much scrolling
- No popups!
- Don't use images on the background unless you know what your doing
- Put a lot of thought into the organization of your page
- Minimize clicking (no more than 3 clicks to get to a page)

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More Tips • Have a way to get to the home page on every page Include a menu on every page (in the same location on every page) Compress your images • Don't let multimedia files bog down your website • No line of text should be more than 600 pixels wide • Don't make your page too wide (around 900 to 1000 pixels), user should NEVER have to do horizontal scrolling. Vertical scrolling should be kept to a minimum

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More Tips

- Use contrasting colors or simple backgrounds to make text easy to read
- Make text large enough to read
- Use ALL CAPITAL LETTERS sparingly,
- Never use more than one exclamation point
- Spell Check
- Never underline words that are not links
- Put contact info or a link to it on every page

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More Tips

- Test your links
- Remove dead links
- Avoid confusing navigation and having menus in different spots on different pages
- Avoid ugly design: no color continuity
- Don't have text that hard to read
- Include a "Last Modified" date
 - Keep up to date, update your "What's New" section frequently
- Don't steal content (I stole this content is from: <u>http://websitehelpers.com/designal@st</u>)

More Tips

- Think about how the user will navigate through your website and remember the 3-click rule.
- Have a consistency throughout your pages
 - Colours
 - Menu placement
 - Layout
 - Fonts
 - Buttons
- Think about the layout, have white space, clean alignment and balance on your pages

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Webpages and Websites

- A **website** is a collection of *related webpages* stored in a folder. The folder may or may not contain sub folders.
- The website folder should contain a sub folder called *images* which holds the image files (.jpg, .gif, etc) that will be displayed on the page.

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Webpages and Websites

- Question: On panther.uwo.ca, what is the main folder for your: http://publish.uwo.ca/~Ireid2
- Question: Does that folder contain a file called *index.html*?

http://wts.uwo.ca/services/web/activate_my_per

sonal web space.html

CHECK IT OUT USING SECURE FTP (WINSCP, FUGU, FILEZILLA)

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Folder Structure for a Simple Site

- Decide on the pages you will need
- Create a top level folder. Use lowercase letters
- Give the home page the name index.html
 Must be all lowercase!
 - Index.html is invalid
- Give the other pages appropriate lowercase names (no spaces in the file names) with the .html extension
- Create a subfolder called images (lowercase) and put all your images in that folder

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Something to try

- Go to your panther page and type each of the following:
 - <u>http://publish.uwo.ca/~lreid2</u>
 - <u>http://publish.uwo.ca/~lreid2/index.html</u>
 - http://publish.uwo.ca/~lreid2/posterassign
 - Question: Why don't we see a webpage when we type the last choice?
- Now go to UWO Computer Science page and type each of the following:
 - http://www.csd.uwo.ca
 - http://www.csd.uwo.ca/index.html

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More complicated site

- Sometimes websites have many submenus and have lots of webpages.
- In this case we need a more complicated folder structure
 - BUT it is NOT really that much more complicated, just one main folder with subfolders that contain "sub websites"
 - Each sub website is a sub folder that contains it's own index.html and images subfolder

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Example of a more complicated site: Westerns Computer Science Site might be set up like this \rightarrow

carries	Size Type
Site - UWO Computer Science	Folder
	OKB HTML Do
	OKB HTML Do
🗄 🧰 undergraduate	Folder
🧀 images	Folder
😑 🙆 prospectivestudents	Folder
	OKB HTML Do
	OKB HTML Do
	OKB HTML Do
ourresearch.html	OKB HTML Do
ourfaculty.html	OKB HTML Do
index.html	OKB HTML Do
faqs.html	OKB HTML Do
😟 🛅 images	Folder
	OKB HTML Do
📆 courses.html	OKB HTML Do
	OKB HTML Do
programs.html	OKB HTML Do
🗉 🚞 research	Folder
🗄 🚞 people	Folder
🗉 🚞 images	Folder
🗄 🚞 graduate	Folder
😥 🧰 facilities	Folder
😟 💼 alumni	Folder
🗄 🛅 aboutcsd	Folder



Web Server

- You will likely build your site on your own machine. When the website is completed you will need to move it to a Web Server
- Web Server \rightarrow the computer that runs software which holds the webpages and serves up (delivers) webpage to the client. This computer must be connected to the Internet. The software delivering the webpages is also called a web server
- Question: What is the software we use to move the webpages we have built on to the web server?
- Question: What is the name of the web server machine at Western?

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Web Browser

- · Once you have moved your website onto the web server you MUST test your website by opening it in a Web Browser
- Web Browser -> software/program that displays formatted webpages to the client.
- Question: What is the input we give a web browser?
- Question: What is the output from the web browser program?
- Question: Can you name 3 web browser programs?
- Question: Does anyone know how you look at the html that was used to create the page currently displayed in the browser?

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What is HTML? • History: • In the late 1980s, Tim Berners Lee proposed a way of sharing research papers using the Internet and hypertext (immediate links to other documents) In 1990 Berners Lee set the specifications for the HTML language and wrote a browser to read HTML files and output linkable papers He proposed html tags Example of some tags \rightarrow <html>, </html>, , , , </o> Tag always start with "<" and end with ">" • Most tags come in pairs: opening tag and a closing tag, for example: <title>This is the title of the webpage</title> Used to have to make html files (webpages) with simple text editors like Notepad Slide 37 of 54

History...

• Tim Berners Lee:



- Created the first web browser
 Created URL layout
- Created ORL layout
- Came up with the World Wide Web and the concept of hyperlinks among pages
- Created HTML tags (they have changed a bit over time but he came up with the initial ones)
- Watch starting at 2 minutes

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Let's make a webpage the **Old Fashioned Way!**

- Open Notepad
- Save your file as myfirstpage.html
- Type in some tags
- Save the file again
- Close the file
- Double click on it, it should now open in IE
- In IE, from the menu select View>Source
- Edit the tags some more and save the file
- Go back to IE and hit the refresh button

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BlueGriffon Tips

- Webpages will NOT format as precisely as something like a MS Word document to be printed because everyone's resolution is different and screen size is different.
- Design a template/layout and then save it and make copies for each page in your site and add the content to the copies
- Don't forget to make an images folder! Put your images in the folder BEFORE you start adding them to your page. ALWAYS ADD THE IMAGE TO THE IMAGES FOLDER BEFORE YOU PUT IT IN YOUR PAGE!
- Try previewing your page in more than one browser
- It is easier to create the top level folder and subfolders first and then point BlueGriffon to that folder
- Always use lower case names with no spaces for all folder and all file names

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Graphics

- Use common universal formats such as jpg, gif and png files that will work in any browser
- Resize and compress the image as much as possible in Photoshop (or other graphics package) BEFORE putting it in with BlueGriffon.
- Any resizing you do within BlueGriffon will not affect the download speed

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Links – Type 5

- Named anchors can link to any spot within the current page OR you can link to the middle of another page, for example:
- <u>http://en.wikipedia.org/wiki/Jpg#Sample_photographs</u>
- Use named anchors to make Back to Top buttons or jump from a list to another area of the page

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Next week

Searching

- FINAL REVIEW QUESTION: If you are creating a webpage for the Contact Info about your Scuba Diving Business, which would be the best title for the page:
 - a. Contact Info
 - b. Untitled
 - c. Laura's Scubalious Diving Co
 - d. Laura's Scubalious Diving Co Contact Us

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