





## What do you think of these sites?

- http://www.brescia.uwo.ca
- <u>https://www.margarethevanderpas.com</u>
- http://www.mariasemple.com/
- https://wrightwoodfurniture.com/
- <u>www.distancetomars.com</u>
- 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
- <u>Incep.// www.intgscars.com</u>
- <u>http://www.jamilin.com/</u>
- http://www.gatesnfences.com/

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## Good Website Design Tips

- Have something valuable to offer → 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/design\_uke</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







## 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>
  - http://publish.uwo.ca/~Ireid2/index.html
- <u>http://publish.uwo.ca/~lreid2/posterassign</u>
- **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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		Local Files	Size Type
	Example of a more	🖃 🧀 Site - UWO Computer Science	Folder
			OKB HTML Do
		📷 index.html	OKB HTML Do
	a a man li ante a la sita i	🖻 - 🤭 undergraduate	Folder
	complicated site:	Co images	Folder
16		prospectivestudents	Folder
			OKB HTML Do
	Nostarna Computor	the job market.html	OKB HTML Do
		ourstudents.html	OKB HTML Do
		ourresearch.html	OKB HTML Do
	Science Site might	ourfaculty.html	OKB HTML Do
		index.html	OKB HTML Do
	he set up like this $\rightarrow$	Taqs.html	OKB HTML Do
		H- C images	Folder
		2008calendar.html	OKB HTML Do
		2009calendar.html	OKB HTML Do
		admissioninfo.html	OKB HTML Do
		checklists.html	OKB HTML Do
		courses.html	OKB HTML Do
		currentstudentinfo.html	OKB HTML Do
		raqs.html	OKB HTML Do
		index.html	UKB HTML Do
		internship.html	UKB HTML Do
		priordegreeinfo.html	UKB HTML Do
		programs.ncmi	UKB HTHL DO
		H	Polder
		E people	Poider
		mages	Folder
		H	Folder
		i in aligned	Edder
		in the sheeterd	Edder
		about.50	1 Older



## 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 → 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 -> <html>, </html>, <b>, </b>, </o>></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

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## History...



- Tim Berners Lee:
  - $^{\circ}$  Created the first web browser
  - Created URL 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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## Types of HTML tags

- Section tags
- <html>, <body>, <head>, ...
- Formatting tags

   <b>, , <i>,,<h2>,</b>,</h2>,...
- Link tags
   <a href="http://www.msn.com">, </a>, ...
- Placeholder tags (standalone or unpaired tags)
  - <img src="mydog.jpg">, <hr>

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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 *Chrome*
- In Chrome, from the menu select View>Source
- Edit the tags some more and save the file
- Go back to Chrome and hit the refresh button

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## It is way to hard to remember all the tags, so...

- WYSIWYG programs to the rescue
   Eg.Adobe Dreamweaver or html5-editor.net
- They creates the tags for us so that we don't have to remember the syntax for each tag!
- Question: Can you still see the tags in <a href="https://editor.csd.uwo.ca/">https://editor.csd.uwo.ca/</a> ? If so, how?

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## Some 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
- Always use lower case names with no spaces for all folder and all file names

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Canadian Tire Does It Right! C A # canadian rahoo Mai 🖬 Ya idar 🗑 CSCourses DON AUTO CENTRE, ON Y As Y What are you looking for today? Q. TOOLS& HARD HOME & PETS SPORTS & RECREATION TOOLS S LIADDWADE × + Yahoo Mal 🔄 Yahoo Calendar 😨 CSCourses 🐼 Fin-Claim 🅱 ONL 🗑 CSToket 📙 ra -soopen What a ۹ NOTIVE TOOLSA MARDWARE MOMEA PETS SPORT AUTOMOTIVE CARA TRUCK CH 34 of 60

## Secting the Page Property/Title Must set this in Notepad Webpage Name | Website e.g. Sample Work | Laura's Stained Glass



## Another Real World Example

- Birthday cake:
- I. Bake/create cake
- 2. Decorate cake
- 3. Add trick candles



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- Always do 3 things:
- I. Create content
- 2. Set look
- 3. Set behaviour

## Building a Web Page Content → create an HTML file (.html) Looks → create a CSS file (.css) (or sometimes add CSS to the .html file) Behaviour → create a JavaScript file (.js) In CS1033, we are just doing .html and .css.

We are just doing minimal .css, if you take CS2033, you will learn even more css and a touch of .js







## **Graphics** Continued

- 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 Affinity (or other graphics package like Photoshop) BEFORE putting the image file into your images folder.
- Any resizing you do within html5-editor OR with css will not affect the download speed

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## Table expressed in terms of **Pixels**

- Resolution affects the way a page is displayed.
- In general, most people do NOT have their resolution below 1024 by 768. Thus if we make our table 1000 pixels wide EVERYONE should be able to view it. If we make our table 1200 pixels wide, some people (the ones whose resolution is still 1024 by 768) will have to scroll horizontally.

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