

Maharishi University of Management, CS472

Lab 2: Basic HTML and CSS

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original lab idea and code by Victoria Kirst and Jeff Prouty; revised by Brian Le, Katlyn Edwards, Roy McElmurry IV, and Marty Stepp

Basic lab instructions

- You may want to **bring your textbook** to labs to look up syntax and examples.
- Have a question? **Ask a TA** for help.
- We encourage you to **talk to your classmates**; it's okay to share code and ideas during lab.
- You are not expected to finish all of the exercises. Just do as much as you can in the allotted time. You don't need to finish the rest after you leave the lab.
- Before you leave, **check in** with a TA to get credit for your work.

Today's lab exercises

Today you will create a basic "About Me" HTML page and style it with a bit of CSS.

1. About Me Page
2. Style Your Page with CSS
3. Validate Your Page
4. Upload Your Page to the Web
5. Validation Links
6. Advanced Style Techniques
7. Favorite Movie
8. Decrementing `o1`

Exercise : About Me Page (~20-25 min)

(The next 3 slides describe this exercise. Please read them all, then start.)

Create a page `aboutme.html` that describes you. Include information such as:

- Your name
- A description of you in ≤ 2 sentences. Emphasize important word(s) in bold.
- A list of classes you are taking right at MUM.

- Your 3 favorite movies, books, or TV shows, in order. Make at least one link to an interesting site about that TV show/movie/book, such as its [IMDB](#) page.
- Two images that represent you when you're happy and sad. (consider [GIS](#))
- Something about one of your neighbors (people sitting next to you)

About Victoria Kirst

My name is Victoria and I am **jolly**, **clumsy**, and **four-eyed**.

My Classes This Quarter

- CSE 451 - Operating Systems
- CSE 471 - Computer Design and Organization
- PHYS 121 - Physics: Mechanics
- CSE 498 - Research w/ Prof. Luis Ceze

My Favorite Movies

(I actually don't watch too many movies, so...here goes!)

1. The last 30 minutes of Forrest Gump ([IMDB](#))
2. Star Trek Episode V with Zazu ([IMDB](#))
3. Fight Club (not really, but I've seen like 3 movies total so this is my 3rd fave by technicality) ([IMDB](#))

My Moods



Happy:



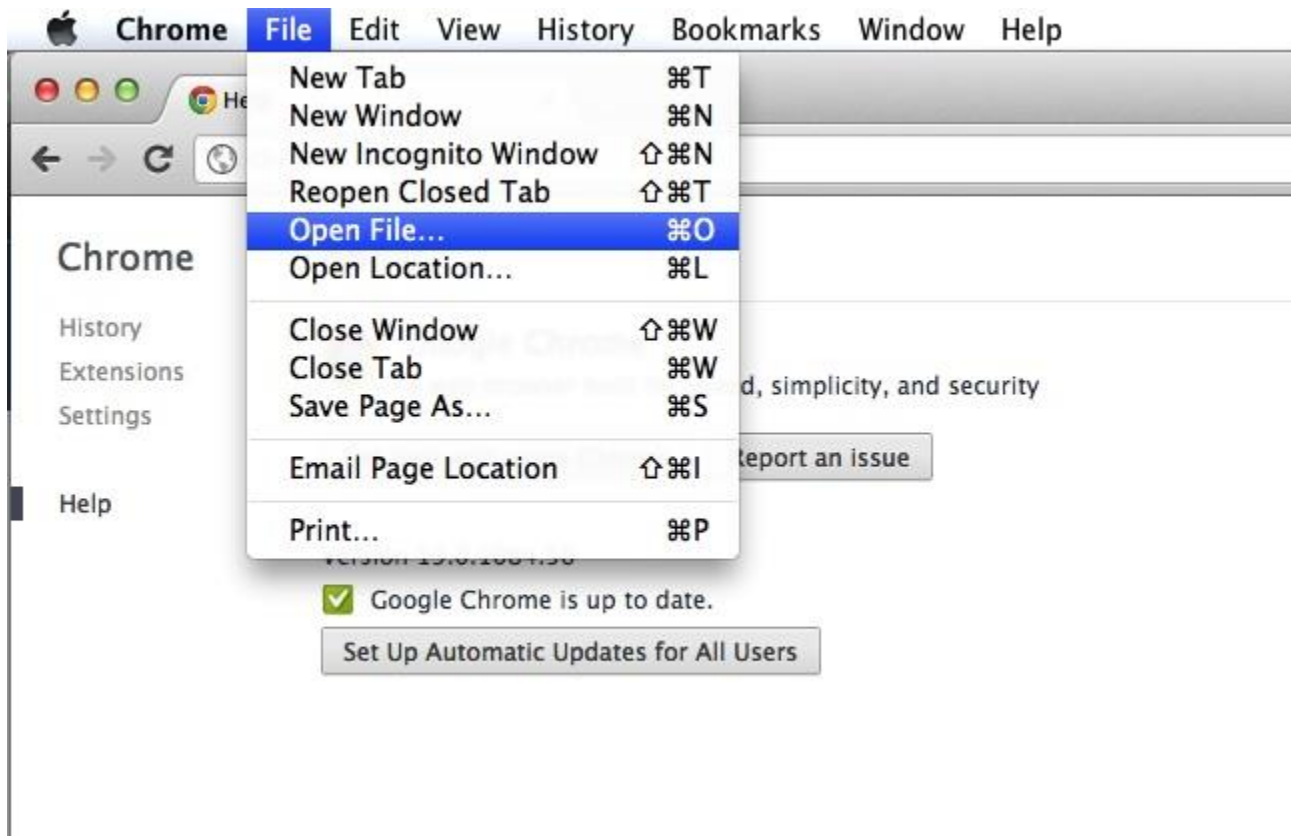
Sad:

Fun Facts About My Neighbors

- Sue Smith: *Effervescent* is a word that describes her.
- Bill Thompson: Loves playing *Yu-Gi-Oh*.

Exercise , how to view the page

To see your page in the web browser, in Chrome click **File, Open File...** and browse to your page file to open it.



Exercise : CSS Styles (~15 min)

(See example screenshot on next slide.)

Create a stylesheet named `styleme.css` to improve the appearance of your About Me page.

- Change the color of at least two elements
- Change the font properties (family, size, weight, or style) of at least two elements. Some standard fonts: Arial, **Arial Black**, Verdana, Trebuchet MS, Georgia, Tahoma, Courier New, Times New Roman
- Change at least one other thing (e.g. background color, text alignment, etc.)

Exercise : Validate Your Page (~10 min)

Next, validate the syntax of your HTML and CSS code:

1. Open <http://validator.w3.org/> (HTML) or <http://jigsaw.w3.org/css-validator/> (CSS)
2. Either click Validate by File Upload and then Browse to your `aboutme.html` file, or click Validate by Direct Input and then copy/paste your code into the text box.
3. If there are any errors, fix the first one, then repeat the previous steps.
 - Try to get the **green bar** for 0 errors. "Warnings" are okay.
 - *(The error messages can be hard to understand. Feel free to ask a TA or neighbor for help.)*

Exercise : Put Page on Web (~10 min)

- Use our [Uploading Files](#) directions to upload your page to the mumstudents.org server.
 - Put your files in a folder named `lab1` within your `public_html` folder.
- Check the page by viewing it in the web browser. Its URL should be:
 - `http://mumstudents.org/~USERNAME/lab1/aboutme.html`

Ask the instructor if you have any problems logging in to mumstudents.org or uploading your files!

Exercise : validation links

Add links on your page to the HTML and CSS Validators, using the URLs

below.  

Image: <https://manalabs.org/img/w3c-html.png>

Link: <https://validator.w3.org/nu/?doc=<url of your page>>

Image: <https://manalabs.org/img/w3c-css.png>

Link: <http://jigsaw.w3.org/css-validator/validator?uri=<url of your page>>

Exercise : Advanced Styles (~10 min)

(See example screenshot on next slide.)

If you complete the previous exercises, great job! You can add any extra content to your page that you like. Or if you want a challenge, try to figure out how to add the following styles:

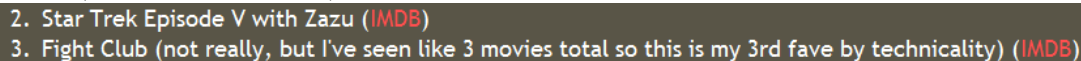
- Make your **hyperlinks not underlined** by default. When a user hovers over the link, the underline should appear. (*Hint: Look for information about CSS pseudo-classes.*)
- Make every paragraph start with a **drop-caps**; that is, a large initial letter that is 1.5 times the normal paragraph font size. (*Hint: Look for information about CSS pseudo-elements.*)

These are tricks not covered yet in class. Use Google or a CSS reference such as W3Schools.

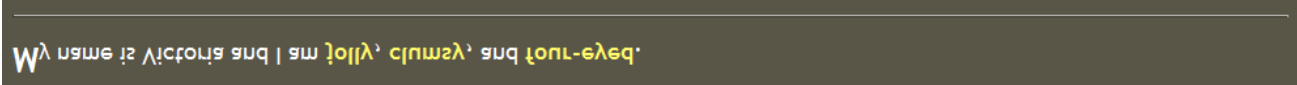
Exercise , example

These are snippets of TA Victoria's updated page, showing links and drop-caps:

Links: (hover is not shown)

- 
- 2. Star Trek Episode V with Zazu ([IMDB](#))
 - 3. Fight Club (not really, but I've seen like 3 movies total so this is my 3rd fave by technicality) ([IMDB](#))

Drop-caps:



My name is Victoria and I am a really, really, and totally

Exercise : Favorite Movie

(See example screenshot on next slide.)

Look up one of the favorite movies/shows from your About Me page on imdb.com.

- In your page, reproduce some of the film's IMDB info in a nested list under that movie's bullet.
 - The info is in short topic: → value pairs, such as Genre: Comedy.
 - Therefore, represent it as an HTML **definition list**. (see [lecture slides](#))
- Consider applying styles to your definition list to make it look snazzy.

Exercise , example

These are snippets of TA Victoria's updated page, showing a favorite movie:

My Favorite Movies

(I actually don't watch too many movies, so...here goes!)

1. The last 30 minutes of Forrest Gump ([IMDB](#))

Director

Robert Zemeckis

Genre

Comedy / Drama / Romance ([more](#))

Tagline

The world will never be the same once you've seen it through the eyes of Forrest Gump.

Plot Outline

Forrest Gump, while not intelligent, has accidentally been present at many historic moments, but his true love, Jenny, eludes him. ([more](#))

2. Star Trek Episode V with Zazu ([IMDB](#))

3. Fight Club (not really, but I've seen like 3 movies total so this is my 3rd fave by technicality) ([IMDB](#))

Exercise : (h4x0rz only): Decrementing _{o1}

(See example screenshot on next slide.)

Modify your page's Top 3 movies/shows list to be in decreasing order, from 3 down to 1.

The list must look the same as the default ordered list format, but in reverse order.

The only change you may make to your HTML is to switch the order of your list items, but otherwise all work should be done by CSS. We aren't going to give any hints; you must figure it out on your own by searching the web.

Note: This is very tricky! It is not something that students will be expected to do in this course.

Exercise , example

These are snippets of TA Victoria's updated page with a decrementing 01:

My Favorite Movies

(I actually don't watch too many movies, so...here goes!)

3. Fight Club (not really, but I've seen like 3 movies total so this is my 3rd fave by technicality) ([IMDB](#))
2. Star Trek Episode V with Zazu ([IMDB](#))
1. The last 30 minutes of Forrest Gump ([IMDB](#))

Director
Robert Zemeckis

Genre
Comedy / Drama / Romance ([more](#))

Tagline
The world will never be the same once you've seen it through the eyes of Forrest Gump.

Plot Outline
Forrest Gump, while not intelligent, has accidentally been present at many historic moments, but his true love, Jenny, eludes him. ([more](#))

If you finish them all...

If you finish all the exercises, you can add any other content or styles you like to your page.

If the lab is over or almost over, check with a TA and you may be able to be dismissed.

Once the lab time is up, you may stop working. You don't need to complete the remaining exercises unless you want to for fun.

Great work!