

Maharishi University of Management, CS472

Lab 1: 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

- Read the instructions thoroughly from **start to end** before you begin with lab.
- Labs will be carried forward as assignments, if not finished in lab time.
- If you are done great! review slides, learn new stuffs on your own most important!

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

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)

Exercise, example

This example page describes textbook coauthor Victoria Kirst.
Look at the lecture slides about HTML to see examples of the right tags to use.

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: 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, example

This example is Victoria's styled page (scroll down to see the rest):

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!)

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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: validation links

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

below.  

- image: <http://mumstudents.org/cs472/images/w3c-html.png>
- link URL: <https://validator.w3.org/check/referer>
- image: <https://jigsaw.w3.org/css-validator/images/vcss>
- link URL: <https://jigsaw.w3.org/css-validator/check/referer>

Exercise: Validate Your Page (~10 min)

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

1. 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 instructor or neighbor for help.)*

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.)*

You can get further CSS references at [W3Schools](https://www.w3schools.com).

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 jolly, clumsy, and four-eyed.

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](#))

If you finish them all...

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

Great work!