

Lab 6 – Multimedia, Image Maps and WAI

Server: **csunix.mohawkcollege.ca**

Location: **/home/students/<student#>/public_html/private/lab06**

or an alternate location as specified by your professor

Test URL: **<https://csunix.mohawkcollege.ca/private/~<student#>>**

Create an apartment rental Web using best practices for HTML5 and Web design in general. This is a multi-page solution. All Web pages must satisfy the following WCAG 2.0 conformance rules to Level 1 (basic) compliance. (<http://www.w3.org/TR/2006/WD-WCAG20-20060427/appendixB.html>).

Guideline 1.1: Provide text alternatives for all non-text content

Guideline 1.2: Provide synchronized alternatives for multimedia

1.2.7 For prerecorded multimedia, a full multimedia text alternative including any interaction is provided.

Guideline 1.3: Ensure that information and structure can be separated from presentation.

Guideline 1.4 Make it easy to distinguish foreground information from its background.

Guideline 2.1: Make all functionality operable via a keyboard interface.

Guideline 2.2: Allow users to control time limits on their reading or interaction.

Guideline 2.3: Allow users to avoid content that could cause seizures due to photosensitivity.

Guideline 2.4: Provide mechanisms to help users find content, orient themselves within it, and navigate through it.

Guideline 2.5: Help users avoid mistakes and make it easy to correct mistakes that do occur.

Guideline 3.1: Make text content readable and understandable.


Guideline 3.2: Make the placement and functionality of content predictable.

Guideline 4.1: Support compatibility with current and future user agents (including assistive technologies).

Guideline 4.1: Ensure that the content is accessible or provide an accessible alternative.


Sandy and Leslie's Apartment

Click a room for a detailed view.



[Apartment](#) | [Bedroom 1](#) | [Bedroom 2](#) | [Dining Room](#) | [Kitchen](#) | [Living Room](#)

Location



Apartment services:

Service	Day/Hours
Gym	Monday-Friday 6am - 10pm Saturday 8am - 8pm Sunday 8am - 5pm
Pool	
Laundry	24/7

Please do not allow people you do not know to use these facilities.

Welcome Message

0:00 / 0:13


Transcript: Hello. Welcome to our apartment. You'll really enjoy living here. The rooms are spacious and the apartment building amenities are fantastic. We look forward to hearing from you!

Survey


How did you find out about this apartment? Check any that apply:

☐ Web search ☐ Friend ☐ Newspaper


Balcony




Bathroom




Bedroom




Dining Room



Kitchen



Living Room



For more information contact: SandyAndLeslie@example.com or [\(905\) 555-1234](tel:9055551234)

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The floor plan is a client-side image map. The image below shows the hotspots in the floor plan:



Requirements for content are as follows:

- Title "Sandy and Leslie's apartment"
- CSS styles should be as follows:
 - External stylesheet called ***apartment_layout.css*** that is suitable for desktop computer viewing and contains all styles that are used in all Web pages. Use an embedded stylesheet for styles that are used only for individual Web pages, if need be.
 - External stylesheet that will print the ***apartment.html*** page without the image and image map.
 - External stylesheet called ***mobile.css*** for the apartment.html. For small devices such that the image map will not be visible, and the text menu will display each room link on a separate line, vertically, and the vertical lines will be removed (|). Use a media query with a 600px breakpoint. That is, 600px and less should display the vertical layout, and 601 pixels and more should display the horizontal layout. Examples of the horizontal and vertical layouts are shown below. The room pages can use a vertical design only, to maximize functionality for small devices. The room pages do not require a media query and modified layout for different size displays.
 - If you'd like to extend the responsive design to the room pages, feel free to do so for extra practice, but it is not required for this assignment.

- Create an image map using the floor plan image. Create the hotspots shown above. Pay attention to the shapes (rectangle, circle, poly). Rooms should link to the following pages, as appropriate: diningroom.html, bedroom.html, livingroom.html, kitchen.html. You can link both bedrooms to the bedroom.html page. The image should link to apartment.html (outside the hotspots).

You may use one of the free image map creation tools or you may code the image map by hand, finding the coordinates using Paint. You should have the following shaped hotspots:

Bedrooms - rectangles

Dining room - circle (position the center of the circle near the center of the dining room table in the image)

Living Room - polygon

Kitchen – rectangle

- Include a text menu below the image map with links to appropriate Web pages as follows:

Apartment | Bedroom 1 | Bedroom 2 | Dining Room | Kitchen | Living Room

- Include a table on the ***apartment.html*** and **each room page** that provides the following information. You may choose a suitable layout and colours.

Gym and Pool Hours: Monday - Friday 6am - 10pm, Saturday 8am - 8pm, Sunday 8am - 5pm

Laundry: 24 hours, 7 days per week

- Include a gallery of pictures, as shown in the sample apartment.html image.
- Include a contact email address, apartment@example.com and phone number (905) 555-1234.
- Use the <audio> element to include the audio description ***apartment.mp3*** on the ***apartment.html*** Web page. The transcript of the audio file is below:

Hello. Welcome to our apartment. You'll really enjoy living here. The rooms are spacious and the apartment building amenities are fantastic. We look forward to hearing from you!

- Each of the room pages should include a heading and image for each room (bedroom.html, diningroom.html, kitchen.html, livingroom.html), plus the table and contact information. An example is shown below.

Sandy and Leslie's Apartment



[Apartment](#) | [Bedroom 1](#) | [Bedroom 2](#) | [Dining Room](#) | [Kitchen](#) | [Living Room](#)

Kitchen Detail



Apartment services:

Service	Day/Hours
Gym	Monday-Friday 6am - 10pm Saturday 8am - 8pm Sunday 8am - 5pm
Pool	24/7
Laundry	24/7

Please do not allow people you do not know to use these facilities.

For more information contact: Sandy@apartment.com or (905) 555-1234

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Sandy and Leslie's Apartment

[Apartment](#)
[Bedroom 1](#)
[Bedroom 2](#)
[Dining Room](#)
[Kitchen](#)
[Living Room](#)

Survey

How did you find out about this apartment? Check any that apply:

☐ Web search ☐ Friend ☐ Newspaper

Welcome Message

▶ 0:00 / 0:13

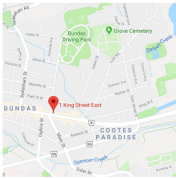
Transcript: Hello. Welcome to our apartment. You'll really enjoy living here. The rooms are spacious and the apartment building amenities are fantastic. We look forward to hearing from you!

Apartment services:

Service	Day/Hours
Gym	Monday-Friday 6am - 10pm
Pool	Saturday 8am - 8pm Sunday 8am - 5pm
Laundry	24/7


Please do not allow people you do not know to use these facilities.

Location




Gallery


Balcony




Bathroom




Bedroom




Dining Room



Kitchen



Living Room



For more information contact: SandyAndLeslie@example.com or (905) 555-1234

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Submitting the Lab

1. Upload your new files and images to the appropriate directories on the CSUNIX server.
2. Also, create a .zip file containing all of the files and folders for the lab and submit it to the dropbox on MyCanvas.

This page should be placed into a directory on csunix under the public_html/private directory called **lab06**.

Testing your Web pages

The lab Web pages you created must be HTML5 compliant. Use the validator at <http://validator.w3.org/> to test your code. Warnings are fine, errors must be fixed.

ALSO UPDATE your index.html web page as follows:

- **Lab 1 - Link to lab01/nectarine.html**
- **Lab 2 - Link to lab02/bookclub.html**
- **Lab 3 - Link to lab03/recycle.html**
- **Lab 4 - Link to lab04/outdooradventures.html**
- **Lab 5 - Link to lab05/reviews.html**
- **Lab 5 - Link to lab05/seminars.html**
- **Lab 6 - Link to lab06/apartment.html**

ALL web pages MUST be created using **NotePad++** (or another simple text editor), and include ALL of the following components:

Proper HTML structure including both the head and body sections, proper <tag> and </tag> syntax, and proper paragraphing.

1. A local **relative** hypertext link back to the index.html web page.
2. The index.html page must have a **local relative hypertext link** to each lab Web page.
3. Copying other people's work and claiming it as your own is a serious breach of ethics. If copied work is found, all parties involved will be processed through the Academic Honesty procedures as per the corresponding policy. To access the Academic Honesty Policy and other college policies, please see this link:

<https://www.mohawkcollege.ca/about-mohawk/leadership-and-administration/policies-and-procedures/corporate-policies-and/student>

You can also find these policies by searching the www.mohawkcollege.ca site using the search term "student policies".

Although helping each other to troubleshoot code is encouraged, it is expected that you actually do your own work. If you do, you will learn the material and feel better for it. Since all work submitted to your professor is assumed to be your own original work, you must include the following "Statement of Authorship" in EVERY file you submit for grading:

All labs must contain the authorship in the HTML source code.

<!-- Author: *John Doe*, 000123456 -->

Replace *John Doe* with your name and the number 000123456 with your student ID

Place this text as a comment at the top of the code for each submitted web page

Failure to include this statement means your work **may receive a deduction of a maximum of 10% of the Lab grade.**

All labs must be created this semester. A lab from a previous semester that is submitted for this semester will be graded as 0.