Lab 1: Web Programming - CSci130

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You can use the specification of HTML5 https://www.w3.org/TR/html5/ to get examples about the different tags.

Please keep the different documents that you are creating during the lab sessions as they can be used to assess your participation to the course.

Goals: To create documents with HTML5 and to get familiarized with the HTML5 tags.

The goal of this lab session is to create documents with HTML5 and to focus on the semantic of the document by using appropriate tags for the different elements. Through the practice and the use of HTML5 tags you will remember how to use them. Everything can be implemented with a text editor such as notepad++.

Warning: Avoid to just do some copy/pasting from some other websites. It will be counter productive for your performance in the midterms and during the final. I know you can copy/paste/quora/stackoverflow but you need to be proficient in your craft and during job interviews.

Exercise 0. Multimedia

Create an HTML5 webpage that contains the following elements:

- A video from youtube
- An audio file that can be played by the user
- An image where, you display a image with a low resolution on the page, and clicking on the image will load the whole image which will be displayed in a separate page.

Exercise 1. Link between pages and inside pages

Create a set of 5 web pages (one file per page) that are linked to each other, so you can reach each page from all the other pages with a list of items (ul and li tags). In addition, each page contains an article that has 5 sections, and you can reach the **top** and the **bottom** of the page from each section using links. Each page has a header and footer. The footer includes some information about the author (copyright, name, …) and date of the creation of the page (use the appropriate HTML5 tags for these elements)

- **Step 1**: Represent the organization of the pages on paper with the different links.
- **Step 2:** Create each webpage by giving them appropriate names.
  - o Start with the first page, as all the pages will be very similar
- **Step 3**: Add some content in the sections (such as large images) to verify that the links are working (if there is not enough content the scrollbars will not appear and you cannot verify that you can jump from one section to another section within the page).

Exercise 2. Basketball

We consider the Fresno State Men Basketball team: https://gobulldogs.com/sports/mens-basketball/roster

We want to create an HTML5 page containing a table containing the information relative to the players, where:

- Column 1: First Name
- Column 2: Last Name
- Column 3: Number
- Column 4: Position
- Column 5: Height
- Column 6: Picture

Use a TBODY, THEAD, and TFOOT

Exercise 3. Your homepage

Create a webpage that contains your CV with your picture.

Include the following elements:

- A title, with name, address, email
  - Use appropriate HTML5 tags for sending an email.
- A picture
- A list of your semesters at Fresno State
  - In each item, create a list of the course you have taken for a given semester
  - For each course, describe in a one sentence in a paragraph <p> the skills you obtained from that course.
- A section containing your hobbies
- A list containing references (fake or real, it doesn't matter)
- A table that gives for each day of the week (column) and different time slots (rows), your schedule for this Fall 2020 semester.

Remark: at this stage, there are no effects for the presentation but you must organize the page as rigorously as possible to avoid artefacts once a style will be added for each element.