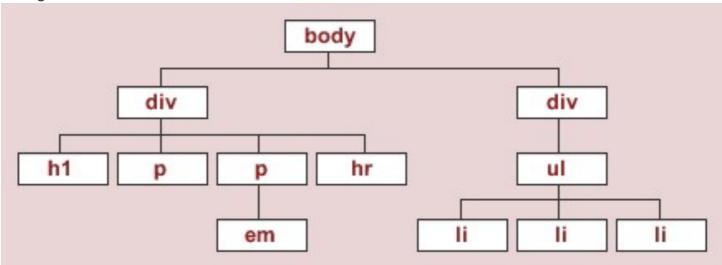
COMP5322 HW1

COMP 5322 Internet Computing and Applications: Building the HTML DOM Tree

Each HTML document can actually be referred to as a DOM tree. We describe the elements in the tree like we would describe a family tree. It is important to understand the DOM tree because CSS selectors use the DOM tree. Here, we use the sample HTML document below to show you how to build the DOM tree:

A diagram of the above HTML document tree would look like this:



Now, you are asked to create the DOM tree for the following html

- 1. Download the HTML from http://www.csszengarden.com/examples/index
- 2. Draw the DOM tree for the element of the HTML as the picture above. You can develop a program or use a DOM tree tool to draw the DOM tree. It is also okay to draw it manually. However, We strongly encourage you to develop your own program to analyse the HTML document and then output he DOM tree. The programming language is arbitrary, e.g., Python, Java, C++. Any text analysis library is allowed.

- 3. Please submit your source code (if finished by programming) and the pdf of the DOM tree via Blackboard system.
- 4. Regarding the workload, the results are marked as follows:

finished by	mark
Drawing by programming	<= 100 points
DDrawing manually	<= 85 points
Drawing by a DOM tool	<= 70 points
Not submitted	0 points

Installation

Requires:

- Python (version 3.8, 3.9, or 3.10)
- Graphviz (version 2.42 or later)
- C/C++ Compiler

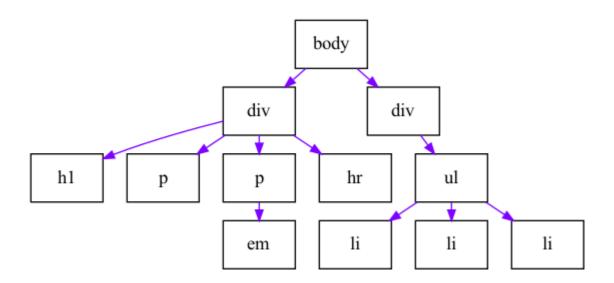
Please following the pygraphviz to install the Graphviz https://pygraphviz.github.io/documentation/stable/install.html

Usage

Output:

```
body
-> div
-> h1
-> p
-> p
-> p
-> em
-> hr
-> div
-> div
-> li
-> li
-> li
-> li
/Users/jerrykwok/dev/polyu/comp5322/hw1/6ca21cbf.png saved
```

0eefd8e3.png



Output of index.html from http://www.csszengarden.com

