

Lab 2: Content Structuring Plus Increments

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A. Introduction (Lab Component Requirements)

Every week, you'll learn HTML, CSS, JavaScript, and Web Server configurations until the end of the trimester. The knowledge you acquire should be incrementally applied to your lab. In other words, you'll apply previous labs to your current labs to build your skills in the front end. Your work should be done individually, but I encourage you to ask for help from your classmates. You don't want to get stuck on something unable to make progress. In the real world, developers consult their co-workers (in this case, your classmates) if all fails on their research to solve their issues – debugging and troubleshooting. Nevertheless, I advise you not to copy their work. HTML goals in this lab is to do the following.

1. Access ITU Web Server
2. Put comments on all your code
3. Incorporate Attributes
4. Implement the div Element
5. Add HTML Semantics
6. Use Special Characters
7. Specify Viewport
8. Debug your HTML Code
9. Validate your HTML Code

10. Preview your code on your mobile device.

B. Confirm that you can connect to ITU Web Server remotely.

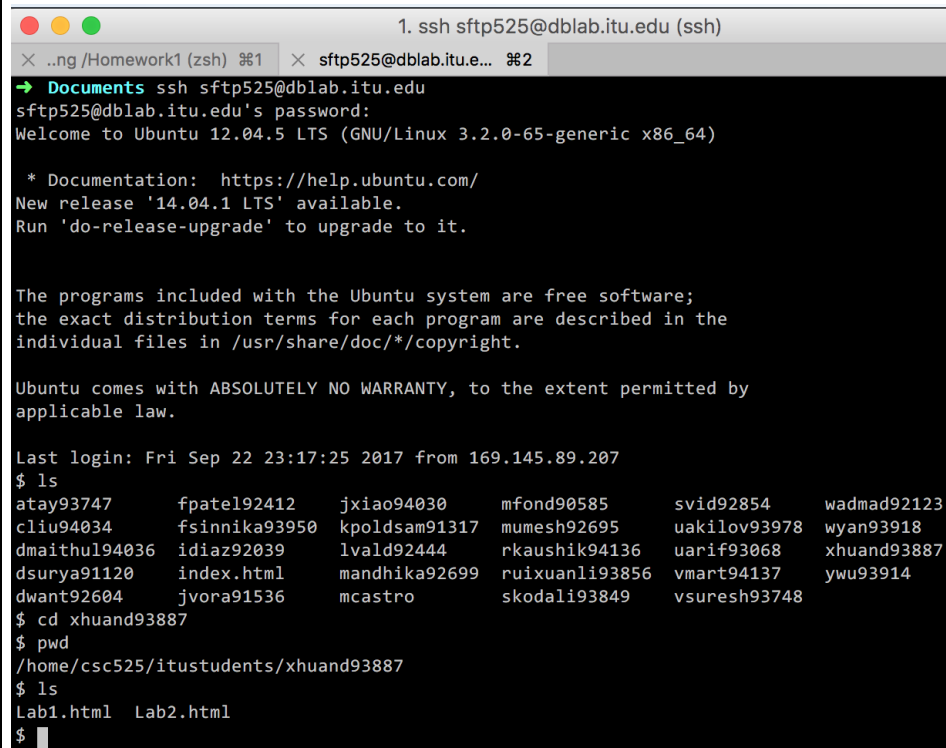
You can use any tools. Just make sure that you can upload or download the html code you want to be corrected. It was discussed in class.

1. What is the URL you're using on the remote ITU Web Server? I showed you this during class session.

This is the path to my folder on the server:

/home/csc525/itustudents/xhuand93887

You can tell from the screenshot that I connected to the server using ssh and files are copied to the folder



The screenshot shows a terminal window titled "1. ssh sftp525@dblab.itu.edu (ssh)". The terminal output includes the SSH banner for Ubuntu 12.04.5 LTS, followed by a directory listing of the user's home directory. The listing shows a long list of files and directories, including "index.html" and "Lab1.html". The user then navigates to the directory "/home/csc525/itustudents/xhuand93887" and lists its contents, showing "Lab1.html" and "Lab2.html".

```
1. ssh sftp525@dblab.itu.edu (ssh)
X ..ng /Homework1 (zsh) %1 X sftp525@dblab.itu.e... %2
Documents ssh sftp525@dblab.itu.edu
sftp525@dblab.itu.edu's password:
Welcome to Ubuntu 12.04.5 LTS (GNU/Linux 3.2.0-65-generic x86_64)

 * Documentation:  https://help.ubuntu.com/
New release '14.04.1 LTS' available.
Run 'do-release-upgrade' to upgrade to it.

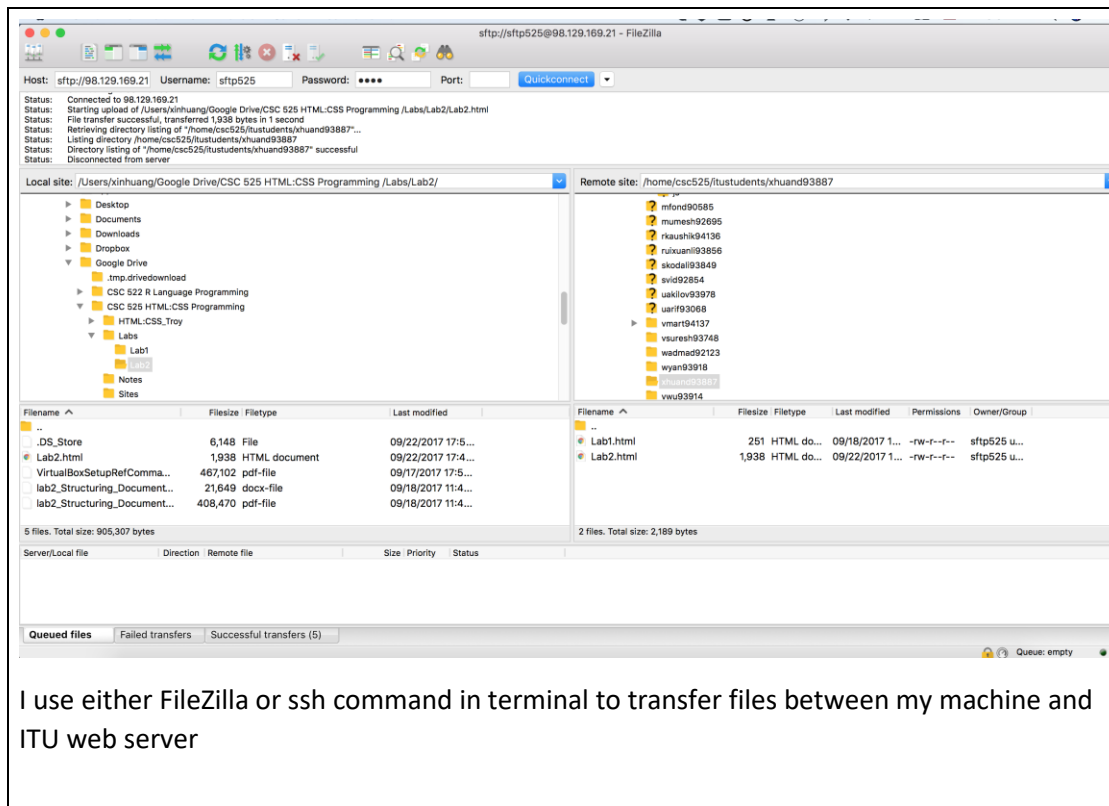
The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

Last login: Fri Sep 22 23:17:25 2017 from 169.145.89.207
$ ls
atay93747      fpatel92412    jxiao94030     mfond90585     svid92854      wadmad92123
cliu94034     fsinnika93950  kpoldsam91317  mumesh92695    uakilov93978   wyan93918
dmaithul94036 idiaz92039     lvald92444     rkaushik94136  uarif93068     xhuand93887
dsurya91120   index.html     mandhika92699  ruixuanli93856 vmart94137     ywu93914
dwant92604    jvora91536     mcastro        skodali93849   vsuresh93748
$ cd xhuand93887
$ pwd
/home/csc525/itustudents/xhuand93887
$ ls
Lab1.html  Lab2.html
$
```

2.

2. Cut and paste the method of tools/ways how you do it. I prefer you using AptanaStudio for everyone to use. Show that you can connect and SFTP your work to the remote server (ITU Web Server)



- 3.

C. Create an HTML website with the following elements.

Don't worry about the layout and structure of your code for now. We'll use CSS how to layout and structure code. Your job here is that you know how to use the HTML code we learned so far. There should not be an error.

1. <html>
2. Document type
3. <body>
4. <head>
5. <div>

Check the example of what I did during class. Create a menu container.

6. Include all the special characters you learn.
7. Viewport
8. Put a comment on all your code of what it does.

```
<!DOCTYPE html>
<html>
  <!--Define the head of this html file-->
  <head>
    <title>CSC 525 Lab1 From Xin Huang</title>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
  </head>
  <body>
    <header>
      <h1 style="text-align: center;">CSC 525 - HTML & CSS Programming</h1>
    </header>

    <!--create a navigate bar using div element-->
    <div class="navbar" style="color:red;text-align:center">
      <a href="#Home">Home</a>
      <a href="#Labs">Labs</a>
      <a href="#Assignments">Assignments</a>
      <a href="Contact">Contact</a>
    </div>

    <!--create another left menu bar-->
    <div class="navbar">
      <ul>
        <li><a href="#">Lab1</a></li>
        <li><a href="#">Lab2</a></li>
      </ul>
    </div>

    <!-- divide another section and set the color to green-->
    <div style="color:green">
      <!--Section semantic tag -->
      <section>
        <h3>Mathematical Symbols</h3>
        <ul>
          <li>&forall;</li>
          <li>&exist;</li>
          <li>&sum;</li>
          <li>&ni;</li>
        </ul>

        <h3>Greek Letters</h3>
        <ul>
          <li>&Alpha;</li>
          <li>&Beta;</li>
          <li>&Delta;</li>
        </ul>

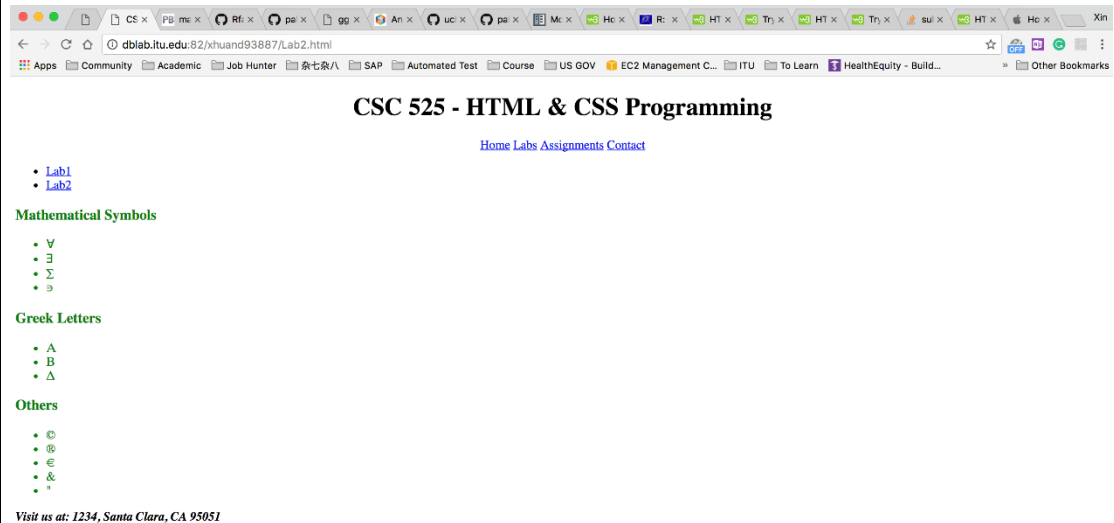
        <h3>Others</h3>
        <ul>
          <li>&copy;</li>
          <li>&reg;</li>
          <li>&euro;</li>
          <li>&amp;</li>
          <li>&quot;</li>
        </ul>
      </section>
    </div>
```

```

        <!-- footer tag-->
        <footer>
            <address><b>Visit us at: 1234, Santa Clara, CA 95051</b></address>
        </footer>
    </body>
</html>

```

Access the file on ITU server via browser



D. Web Page Validator

1. Select a Web page of your choice, and validate it using the "validate by URI" tab of <http://validator.w3.org/>. Cut and paste of the sample error captured.

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for <https://www.youtube.com/>

Checker Input

Show ☐ source ☐ outline ☐ image report

Check by

<https://www.youtube.com/>

Use the Message Filtering button below to hide/show particular messages, and to see total counts of errors and warnings.

Message Filtering

1. **Error** Attribute `name` not allowed on element `style` at this point.

From line 1, column 69, to line 1, column 94

`<us"><head><style name="www-robot">xfont-`

Attributes for element `style`

Global attributes

media — Applicable media

nonce — Cryptographic nonce used in Content Security Policy checks [CSP]

type — Type of embedded resource

Also, the `title` attribute has special semantics on this element: Alternative style sheet set name.

The website I chose is: <https://www.youtube.com/>
and here is the sample of error

2. Now, validate your code from section C you just created. There should not be an error.

Nu Html Checker

This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change

Showing results for <http://dblab.itu.edu:82/xhuand93887/Lab2.html>

Checker Input

Show ☐ source ☐ outline ☐ image report

Check by

<http://dblab.itu.edu:82/xhuand93887/Lab2.html>

Use the Message Filtering button below to hide/show particular messages, and to see total counts of errors and warnings.

Message Filtering

1. **Error** End tag `div` seen, but there were open elements.

From line 57, column 9, to line 57, column 14

`</div>`

2. **Error** Unclosed element `section`.

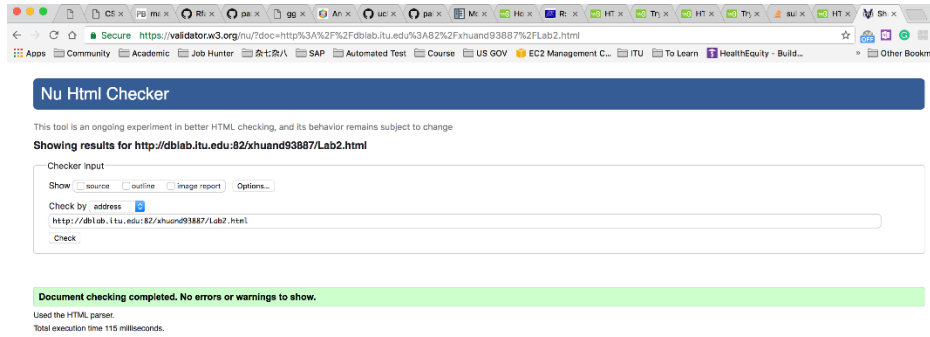
From line 33, column 13, to line 33, column 21

`<section>`

I verified my html and this was the error found.

E. Debugging:

What are the errors you see? Correct the errors. You may test this on your different browsers and see what it looks like.



The screenshot shows a web browser window with the Nu Html Checker interface. The browser's address bar displays a secure connection to a URL from validator.w3.org. The page title is "Nu Html Checker". Below the title, a message states: "This tool is an ongoing experiment in better HTML checking, and its behavior remains subject to change." The main heading reads "Showing results for http://dliblab.itu.edu:82/xhuand93887/Lab2.html". Under the "Checker input" section, there are tabs for "source", "outline", and "image report", with "source" selected. Below these tabs, it says "Check by address" with a dropdown arrow, followed by the URL "http://dliblab.itu.edu:82/xhuand93887/Lab2.html" in a text input field. A "Check" button is located at the bottom of this section. At the bottom of the page, a green banner displays the message "Document checking completed. No errors or warnings to show." Below this banner, small text indicates "Used the HTML parser." and "Total execution time 115 milliseconds."

I fixed the bug and there is no bug now.