

CSCI 3403: Intro to Cybersecurity

Recitation Class: HTML

JAN 24 2020

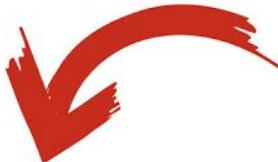
Adapted from Insoo Lee

Contents

- Introduction to Website & HTML
- How to Use HTML for Coding Website
- HTML Practice using Developer Tools



Website



- Front-end: client side of website

It includes everything
that users experience directly.

- Front-end Languages



- Back-end: server side of website

It is the part of website
that users cannot see and interact with.

- Back-end Languages



& more



HTML?

- Hypertext Markup Language

Standard markup language for documents designed
to be displayed in a web browser

- How to start HTML coding
 - Text editor (Notepad, Atom, VSCode, Sublime Text)
 - Coding site: <https://repl.it>



HTML Structure

- Tag
 - <tag> contents </tag> or <tag/>
e.g., <html> ... </html> or <input />
- Head
 - title, meta, style (CSS)
- Body
 - text, media, link, table, list, division, input



Head: Title

- Coding



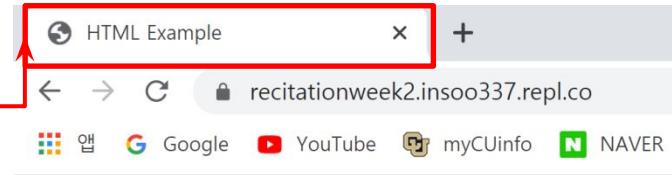
```
index.html  📁 saved
1 <html>
2   <head>
3     <title> HTML Example </title>
4   </head>
5   <body>
6   </body>
7 </html>
```

A screenshot of a code editor window titled "index.html". The code is as follows:

```
<html>
<head>
<title> HTML Example </title>
</head>
<body>
</body>
</html>
```

The line containing the title tag, "`<title> HTML Example </title>`", is highlighted with a red rectangular box.

- Result



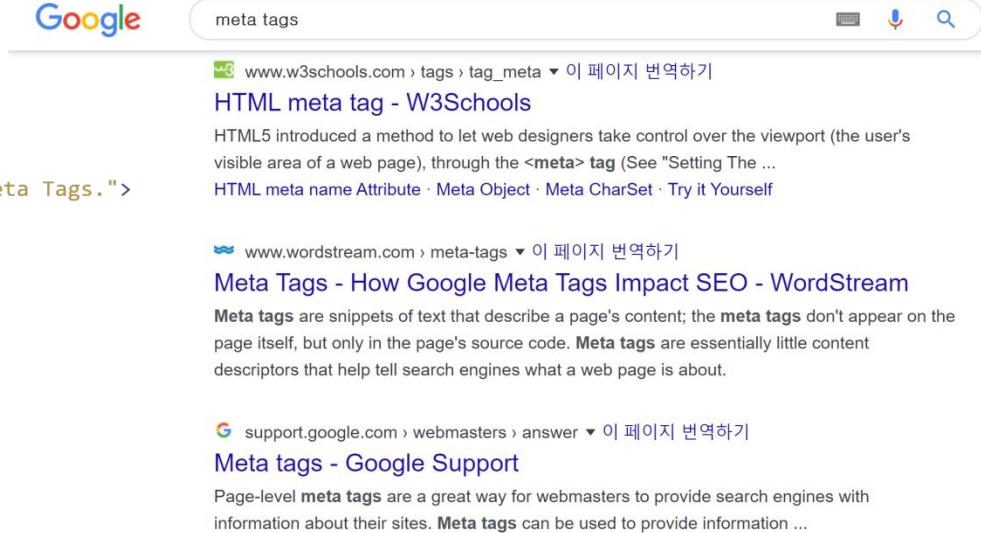
Head: Meta

- Coding



```
index.html  [ ] saved
1  <html>
2    <head>
3      <title> HTML Example </title>
4      <meta name="keywords" content="HTML, Meta Tags">
5      <meta name="description" content="Learning about Meta Tags.">
6    </head>
7    <body>
8    </body>
9  </html>
```

- Result



Google search results for "meta tags":

- [www.w3schools.com › tags › tag_meta](http://www.w3schools.com/tags/tag_meta.asp) ▾ 이 페이지 번역하기
HTML meta tag - W3Schools
HTML5 introduced a method to let web designers take control over the viewport (the user's visible area of a web page), through the `<meta>` tag (See "Setting The ...
HTML meta name Attribute · Meta Object · Meta CharSet · Try it Yourself
- [www.wordstream.com › meta-tags](http://www.wordstream.com/meta-tags.asp) ▾ 이 페이지 번역하기
Meta Tags - How Google Meta Tags Impact SEO - WordStream
Meta tags are snippets of text that describe a page's content; the **meta tags** don't appear on the page itself, but only in the page's source code. **Meta tags** are essentially little content descriptors that help tell search engines what a web page is about.
- [support.google.com › webmasters › answer](http://support.google.com/webmasters/answer/62740) ▾ 이 페이지 번역하기
Meta tags - Google Support
Page-level **meta tags** are a great way for webmasters to provide search engines with information about their sites. **Meta tags** can be used to provide information ...



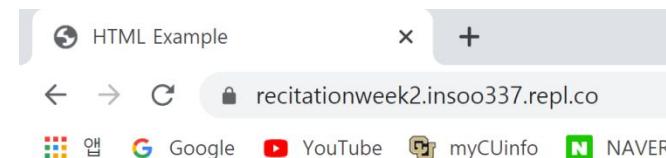
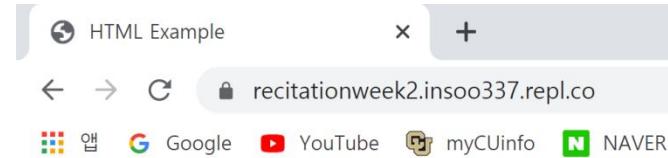
Head: Style

- Coding

```
index.html  📁 saved
1  <html>
2    <head>
3      <title> HTML Example </title>
4      <style>
5        .item{
6          color: red;
7        }
8      </style>
9      <link href="style.css" rel="stylesheet" type="text/css" />
10   </head>
11   <body>
12     <div class="item">Hello</div>
13   </body>
14 </html>
```

```
style.css  📁 saved
1  .item{
2    color: blue;
3  }
```

- Result



Body: Text

- Coding

```
index.html  📁 saved
1  <html>
2    <head>
3      <title> HTML Example </title>
4      <link href="style.css" rel="stylesheet" type="text/css" />
5    </head>
6    <body>
7      <h1> Hello! H1 </h1>
8      <h2> Hello! H2 </h2>
9      <h3> Hello! H3 </h3>
10     <h4> Hello! H4 </h4>
11     <h5> Hello! H5 </h5>
12     <h6> Hello! H6 </h6>
13
14     <b> This is bold. </b>
15     <i> This is italic. </i>
16     <p> This is paragraph. </p>
17   </body>
18 </html>
```

- Result

Hello! H1

Hello! H2

Hello! H3

Hello! H4

Hello! H5

Hello! H6

This is bold. This is italic.

This is paragraph.

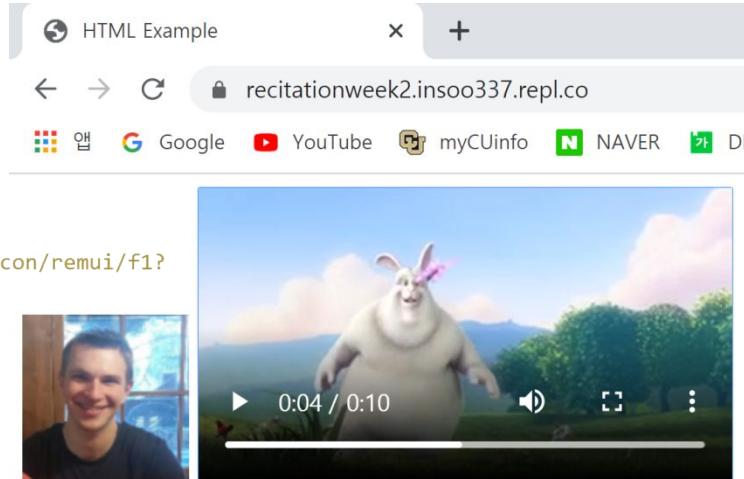


Body: Media

- Coding

```
index.html      3 saved  
1  <html>  
2    <head>  
3      <title> HTML Example </title>  
4      <link href="style.css" rel="stylesheet" type="text/css" />  
5    </head>  
6    <body>  
7        
8      <video src="https://www.w3schools.com/html/mov_bbb.mp4" controls />  
9    </body>  
10   </html>
```

- Result



image

video

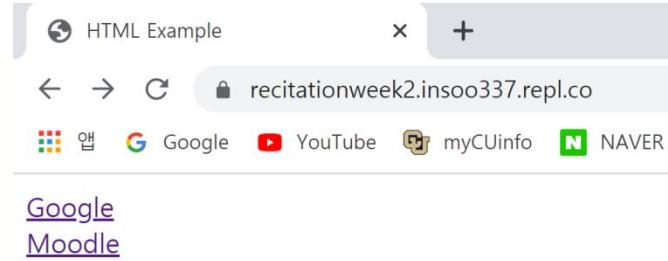


Body: Link

- Coding

```
index.html  📁 saved
1  <html>
2    <head>
3      <title> HTML Example </title>
4      <link href="style.css" rel="stylesheet" type="text/css" />
5    </head>
6    <body>
7      <a href="https://www.google.com"> Google </a>
8      <br>
9      <a href="https://moodle.cs.colorado.edu/" target="_blank"> Moodle </a>
10   </body>
11 </html>
```

- Result



Body: Table

- Coding

```
6   <body>
7     <table border="1">
8       <thead>
9         <tr>
10        <th> name </th>
11        <th> email </th>
12      </tr>
13    </thead>
14    <tbody>
15      <tr>
16        <td> Insoo Lee </td>
17        <td> insoo.lee@colorado.edu </td>
18      </tr>
19      <tr>
20        <td> Joon Lee </td>
21        <td> insoo6462@gmail.com </td>
22      </tr>
23    </tbody>
24  </table>
25</body>
26</html>
```

- Result

HTML Example

recitationweek2.insoo337.repl.co

App Google YouTube myCUinfo NAVER

name	email
Insoo Lee	insoo.lee@colorado.edu
Joon Lee	insoo6462@gmail.com



Body: List

- Coding

```
index.html   saved  
6  <body>  
7    <ol>  
8      <li> Insoo Lee </li>  
9      <li> Joon Lee </li>  
10     </ol>  
11    <ul>  
12      <li> Insoo Lee </li>  
13      <li> Joon Lee </li>  
14    </ul>  
15  </body>  
16 </html>
```

ordered lists

unordered lists

- Result

HTML Example

recitationweek2.insoo337.repl.co

앱 Google YouTube myCUinfo NAVER

1. Insoo Lee
2. Joon Lee

• Insoo Lee
• Joon Lee



Body: Division

- Coding

```
index.html    saved
6   <body>
7     <div class="d1"> DIV 1 </div>
8     <div class="d2"> DIV 2 </div>
9     <div class="d3"> DIV 3 </div>
10    <span class="s1"> SPAN 1 </span>
11    <span class="s2"> SPAN 2 </span>
12    <span class="s3"> SPAN 3 </span>
13  </body>
14 </html>

style.css    saved
1 .d1{background: red;}
2 .d2{background: yellow;}
3 .d3{background: green;}
4 .s1{background: red;}
5 .s2{background: yellow;}
6 .s3{background: blue;}
7
```

- Result



Div vs Span

DIV	SPAN
Block-level portion of document	Inline portion of document
Used to wrap sections of document	Wraps Text and Images
Used while creating css layouts in HTML	Used to stylize texts



Body: Input

- Coding

```
index.html  saved
6   <body>
7     TEXT: <input type="text" /> <br>
8     CHECKBOX: <input type="checkbox" /> <br>
9     RADIO: <input type="radio" /> <br>
10    COLOR: <input type="color" /> <br>
11    SELECTION: <select name="name">
12      <option value="Insoo"> Insoo Lee </option>
13      <option value="Joon"> Joon Lee </option>
14    </select> <br>
15    TEXT_AREA: <textarea></textarea> <br> <br>
16    This is example. <br>
17    <form>
18      <input type="email" placeholder="Email" />
19      <input type="password" placeholder="Password" />
20      <button type="submit"> LOGIN </button>
21    </form>
22  </body>
23 </html>
```

- Result

HTML Example

recitationweek2.insoo337.repl.co

앱 Google YouTube myCUinfo NAVER

TEXT:

CHECKBOX:

RADIO:

COLOR:

SELECTION:

TEXT_AREA:

This is example.

Email Password LOGIN



HTML Practice

- Fake News

Tuesday, January 21, 2020

The New York Times

World U.S. Politics N.Y. Business Opinion Tech Science Health Sports



Your Tuesday Briefing
Here's what you need to know.



Listen to 'The Daily'
Lessons from the last impeachment trial.

Matthew Niemiec is selected for Turing Award 2020

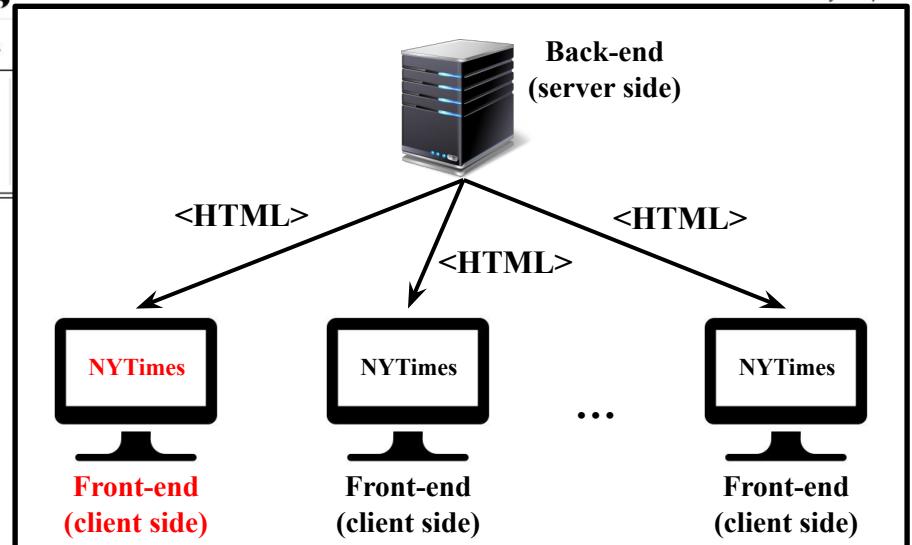
- Senators will begin with what is expected to be a contentious debate over procedures governing the trial of President Trump.
- The debate will most likely culminate in a party-line vote to adopt Republicans' preferred approach.



3h ago 49 comments



University of Colorado **Boulder**



Developer Tools: F12

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32°F 51° 34°

Your Tuesday Briefing Here's what you need to know.

Listen to 'The Daily' Lessons from the last impeachment trial.

In the 'Cooking' Newsletter Cook and practice love in celebration of Martin Luther King's Birthday.



Impeachment Trial to Begin in Earnest With Debate Over Rules

- Senators will begin with what is expected to be a contentious debate over procedures governing the trial of President Trump.
- The debate will most likely culminate in a party-line vote to adopt Republicans' preferred approach.

3h ago 92 comments

McConnell Impeachment Rules Modify Clinton Precedent

Mitch McConnell, the Senate

Analysis: 'This Argument Is Constitutional Nonsense,' Scholar Says

The legal case increasingly emphasized by

Representatives Hakeem Jeffries and Adam B. Schiff, two of the House impeachment managers, visited the Senate side of the Capitol on Monday. Erin Schaff/The New York Times

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Styles Computed Event Listeners ▲ 40

Filter :hover .cls + element.style { padding-top: 0px; }

body { global-42db-8fe.css:313 overflow-x: hidden; }

html, body { main { height: 100%; margin: 0; } }

body { global-42db-8fe.css:140 color: #333; background-color: white; }

body { global-42db-8fe.css:112 line-height: 1; }

html, body, div, span, applet, object, iframe, h1, h2, h3, h4, h5, p, blockquote, pre, a, abbr, acronym, address, b, big, code, del, dfn, em, img, ins, kbd, q, s, samp, small, strike, strong, sub, sup, tt, var, b, u, i, center, dl, dt, dd, ol, ul, li, table, caption, tbody, legend, tr, td, footer, tfoot, thead, th, td

NYTimes.com: All the code that's fit to print!() We're hiring: <https://nytimes.wd5.myworkdayjobs.com/Tech>

VM53:2 pubads_im01_2020011301.js:6

CSCI 3403: Intro to Cybersecurity (Spring 2020)

Additional links to get started

- <https://www.w3schools.com/html/>
- <https://html.com/cheat-sheet/>
- <https://developer.mozilla.org/en-US/docs/Learn/HTML>

