Web Client Computing

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Announcements

• The next class (March 16th Thursday) will start from 17:50 (10 minutes earlier)

Recap from the last class

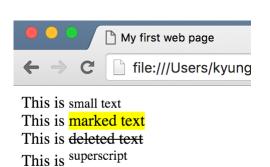
- <title>
- <small> <mark> <sup> <sub>
-
 tag
 - Empty tag needs no element and closing tag
 - Sometimes, a closing tag is inserted for backward compatibility with h XHTML
- Adding auto indentation in VIM editor
 - Open/Create .vimrc file (in your home folder)
 - vi ~/.vimrc

```
filetype plugin indent on
syntax on
set expandtab
set autoindent
set smartindent
set tabstop=2
```

Examples

```
<!DOCTYPE html>
<html>
<head>
    <title>My first web page</title>
</head>
<body>
This is <small>small text</small><br>
This is <mark>marked text</mark><br>
This is <del>deleted text</del><br>
This is <sup>superscript</sup><br>
This is <sub>subscript</sub>

</body>
</html>
```

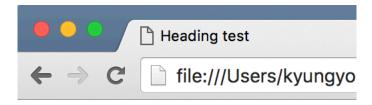


This is subscript

HTML Headings

- Organizing contents hierarchi cally
 - Recommended to use in order
 - h1, h2, h3, h4, h5, h6
 - Space is automatically added af ter heading
 - Search engine use headings to index the structure of the cont ent





h1 heading

h2 heading

h3 heading

h4 heading

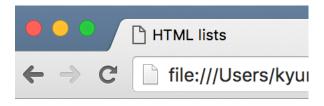
h5 heading

h6 heading

HTML Lists

- Represents a set of lists in the content
 - ul unordered list (usually expressed with bullets)
 - ol ordered list (usually expressed with incremental numbers)
 - li an element in the list

```
<!DOCTYPE html>
<html>
<head>
 <title>HTML lists</title>
</head>
<body>
 <l
  Unordered
  list
 ordered
  list
 </body>
</html>
```



- Unordered
- list
- 1. ordered
- 2. list

Lists Bullet Shape

- Unordered list style
 - list-style-type:disc entry mark with bullet (default)
 - list-style-type:circle entry mark with circle
 - list-style-type:square entry mark with square
- Ordered list attribute
 - type="1": numbered 1, 2, 3, ...
 - type = "A" or "a": numbered A, B, C, ...
 - type = "I" or "i" : number in roman number in upper or lower case

List Example

```
<!DOCTYPE html>
<html>
<head>
<title>HTML lists</title>
</head>
<body>
Coffee
 Tea
 Milk
Coffee
 Tea
  Milk
</body>
</html>
```

- Coffee
- Tea
- Milk
- A. Coffee
- B. Tea
- C. Milk

Nested Lists

Lists can be nested

```
<!DOCTYPE html>
<html>
<body>
<h2>A Nested List</h2>
<l
 Coffee
 Tea
  Black tea
  Green tea
  Milk
</body>
</html>
```

A Nested List

- Coffee
- Tea
 - Black tea
 - Green tea
- Milk

HTML Time Elements

- Express time information in the page
 - <time>2017-03</time>
 - <time>2017-03-13</time>
 - <time>18:30</time>
 - <time>18:30:12</time>
 - <time datetime="2017-03-13">My birthday</time>
- Time element does not render special. Then what is the purp ose?

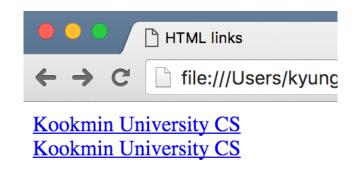
HTML – Make a Link to Other Page

- Hyper Text
 - a structured text that uses links to navigate through different pages
- WWW World Wide Web
 - Interlinked by hyper text
- Anchor tag <a> represents a link
- Destination is added as an attribute within <a> tag
 - Kookmin Univ. Computer Science

HTML Link Example

To open the link in a new window add target="_blank" attribute

```
<!DOCTYPE html>
<html>
<head>
    <title>HTML links</title>
</head>
<body>
    <a href="http://cs.kookmin.ac.kr">Kookmin University CS</a><br/>
<a href="http://cs.kookmin.ac.kr" target="_blank">Kookmin University CS</a>
</body>
</html>
```



HTML – Link within a Page

• Within a page, we can assign ID to an entry and link to it

```
<!DOCTYPE html>
<html>
<head>
<title>HTML page links</title>
</head>
<body>
This is a new paragraph
<a href="#bookmark-1">jump in a page</a>
</body>
</html>
```

Insert an Image

- Using tag. Attributes
 - src: the location of image file. Both local file system path and URL a re OK
 - width: the width of the image in a page (unit: pixel or %)
 - height: the height of the image in a page (unit: pixel or %)
 - title : a message shown when a pointer is over the image
 - alt : a message that will be shown when the image is not available
 -
- HTML Screen reader
 - A software program that read what is displayed on the screen
 - For blind people, visually impaired, learning disabled

HTML Image Example

```
<!DOCTYPE html>
<html>
<head>
    <title>My first web page</title>
</head>
<body>
    <img src="http://www.kookmin.ac.kr/images/common/footer_logo.gif" width="150" height="50" title="KMU Logo"></br>
    <img src="foo.bar.invalid.address" width="150" height="50" alt="KMU Logo"><br>
    <img src="http://www.kookmin.ac.kr/images/common/footer_logo.gif" width="20%" height="auto"></body>
</html>
~
```



HTML Image Map

- A image map with clickable areas
- img tag usemap attribute is matched with the map tag name
- map tag contains multiple area tags
 - coords
 - rect: coordinate of rectangle
 - circle: center coordinate and radius

```
<!DOCTYPE html>
<html>
<head>
 <title>My first web page</title>
</head>
<body>
 <img src="planets.gif" alt="Planets" usemap="#planetmap">
 <map name="planetmap">
   <area shape="rect" coords="0,0,82,126" alt="Sun" href="#sun">
   <area shape="circle" coords="90,58,3" alt="Mercury" href="#mercury">
   <area shape="circle" coords="124,58,8" alt="Venus" href="#venus">
 </map>
 </body>
</html>
```

HTML5 Video Tag

- Used to add a video into a web pag
 e
- Under the video tag, nest source tag with src specifying the movie location
 - controls show control bar
 - loop loop when the file play is over
 - autoplay automatically start the rendering when the page is ready
 - <source> tag contains type to specify t he video type

HTML5 Audio Tag

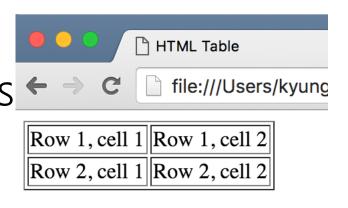
- Very similar to <video> tag
- Audio type
 - MP3 audio/mpeg
 - Ogg audio/ogg
 - Wav audio/wav

HTML5 Embed Tag

- Adding contents that are not supported with <audio>
 - The embedded file type has to be defined in the type attribute
 - Flash: appliction/x-shockwave-flash, PDF: application/pdf
 - Application media type list http://www.iana.org/assignments/media-types/media-types/media-types/media-types/media-types/media-types/media-types.xhtml#application
 - Be cautios for the copyright.

HTML Tables

- defines a table
 - Attribute border decides whether the border is d
- defines each row Table Row
- defines each column with a row Tabl
 - Data should be written in this field
- Table border attribute
 - Defines border style
 - Styling better to use CS



```
<!DOCTYPE html>
<html>
<head>
 <title>HTML Table</title>
</head>
<body>
 Row 1, cell 1
  Row 1, cell 2
 Row 2, cell 1
  Row 2, cell 2
 </body>
</html>
```

HTML Table Heading

- Use Table Heading with <th
 - > tag
 - Bold and centered
- padding attribute a style a ttribute to specify the space between table cell and the data within the cell
- Caption tag immediately aft er the table tag

```
<!DOCTYPE html>
<html>
<head>
<title>HTML Table</title>
</head>
<body>
<caption>Points of employee</caption>
Firstname
 Lastname
 Points
Eve
 Jackson
 94
</body>
</html>
```

Points of employee

Firstname	Lastname	Points	
Eve	Jackson	94	

Table Cells that Span Many Columns

 colspan tag to make cell to merge multiple columns

Name	Telephone			
Bill Gates	555 77 854	555 77 855		

```
<!DOCTYPE html>
<html>
<head>
 <title>HTML Table</title>
</head>
<body>
Name
  Telephone
 Bill Gates
  555 77 854
  555 77 855
 </body>
</html>
```

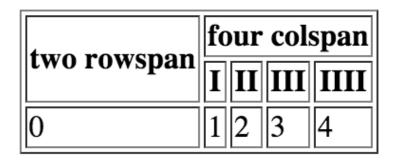
Table Cells that Span Many Rows

 rowspan tag to make a cell to merge multiple r ows

Name:	Bill Gates
Telephone:	555 77 854
	555 77 855

```
<!DOCTYPE html>
<html>
<head>
 <title>HTML Table</title>
</head>
<body>
Name:
  Bill Gates
 Telephone:
  555 77 854
 555 77 855
 </body>
</html>
```

Table Rowspan and Co Ispan In One Place



```
<!DOCTYPE html>
<html>
<head>
<title>HTML Table</title>
</head>
<body>
two rowspan
 four colspan
I
 II
 III
 IIII
0
 1
 2
 3
 4
</body>
</html>
```

How To Make This?

2 and 2		four colspan			
		first col	second col	third col	fourth col
two rowspan	Third row	1	2	3	4
	Fourth row	5	6	7	8

References

- http://www.w3schools.com/html/ HTML tutorial
- http://www.htmldog.com/guides/html/
- http://fromyou.tistory.com/581