

overview

HTML and CSS basics

HTML

html elements

```
<tagname attribute="value">  
    ...Content...  
</tagname>
```

HTML document structure

- `<!DOCTYPE html>`
- `<html>`
 - `<head>`
 - `<meta charset="utf-8">`
 - `<title>`
 - `<body>`
 - content

character entities

- Some characters should be represented in code:
 - ** **; Non-Breaking Space
 - **&**; &
 - **<**; <
 - **>**; >

HTML semantic outline

- Implicit: heading element
- Explicit: section element + heading element

- Heading elements: `<h1>` to `<h6>`
- Section elements: `<section>`, `<aside>`, `<article>`

inline vs. block

- Inline elements flow like words in a sentence
- Block elements “stretch” horizontally and fill the width of the parent element

lists and nesting

```
<ol>  
  <li>Item 1</li>  
  <li>Item 2</li>  
  <li>Item 3: Sub-List  
    <ul>  
      <li>Item</li>  
      <li>Another Item</li>  
      <li>One More Item</li>  
    </ul>  
  <li>  
</ol>
```


table structure

- Table

- Caption

- Table Header

- Rows

- Cells

- Table Body

- Rows

- Cells

- Table Footer

- Rows

- Cells

<table>

<caption>

<thead>

<tr>

<td> or <th>

<tbody>

<tr>

<td> or <th>

<tfoot>

<tr>

<td> or <th>

row and column span

```
<tbody>
  <tr>
    <th rowspan="2">Product</th>
    <td colspan="2">Milk</td>
  </tr>
  <tr>
    <td>Skim</td> <td>2%</td>
  </tr>
  <tr>
    <th>Price</th>
    <td>3.00</td> <td>3.50</td>
  </tr>
</tbody>
```

Product	Milk	
	Skim	2%
Price	3.00	3.50

row and column span

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CSS

CSS rules

selector, selector

```
{ property: value;  
  property: value;}
```

CSS selectors

- Tag Selector (body, table, p, em, etc.)
- Global Selector (*)
- Class Selector (.class_name)
 - Together with the class attribute (class="class_name")
- Nested Selector (p em)
- Child Selector (p>em)

common CSS properties

- **font:** italic bold **1cm Arial;**
- **border:** 1px **solid** black;
- **margin:** **1ex;** or **margin: auto;**
- **padding:** **1ex;**
- **background:** **rgb(255,255,255);**
- **color:** **rgb(0,0,0);**
- **width:** **60%;** or **width: 600px;**