

Session 2

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Today's Agenda



- Lists in HTML
- ▶ Tables in HTML
- Cascading Style Sheet (CSS)



Lists in HTML

HTML Lists



- There are many reasons we might want to add a list to our web pages.
- There are multiple types of lists in HTML:
 - Unordered lists: which are like lists of bullet points
 - Ordered lists: which use a sequence of numbers or letters instead of bullet points

List Examples



Unordered List

- The first item
- The second item
- The third item
- The fourth item

Ordered List

- The first item
- The second item.
- The third item
- The fourth item

Unordered List



- An unordered list starts with the ul> tag
- Each list item starts with the tag

```
CoffeeTeaMilk
```

Ordered Lists



- An ordered list starts with the tag
- Each list item starts with the tag
- ▶ The list items will be marked with numbers:

```
     Coffee
     Tea
     Milk
```

Ordered Lists - The Type Attribute



- A type attribute can be added to an ordered list
 - to define the type of the marker

Туре	Description	Example
type="1"	Arabic Numerical (default)	1, 2, 3, 4, 5
type="A"	Capital Letters	A, B, C, D, E
type="a"	Small Letters	a, b, c, d, e
type="I"	Large Roman Numeric	I, II, III, IV, V
type="i"	Small Roman Numeric	i, ii, iii, iv, v



Tables in HTML

Defining HTML Table



- Tables are defined with the tag
- Tables are divided into table rows with the tag
- Table rows are divided into table data with the table
- A table row can also be divided into table headings with the tag





```
>
 First Name
 Second Name
 Points
>
 Jill
 Smith
 50
>
 Eve
 Jackson
 94
```

Column Span



- To make a cell span more than one column
 - Use the colspan attribute

Name	Telephone	
Bill Gates	555 77 854	555 77 855
Mark Zuckerberg	555 78 854	555 78 855





```
>
 Name
 Telephone
Bill Gates
 555 77 854
 555 77 855
>
 Mark Zuckerberg
 555 78 854
 555 78 855
```

Row Span



- To make a cell span more than one row
 - Use the rowspan attribute

Name:	Bill Gates	Mark Zuckerberg
Telephone:	555 77 854	555 78 854
тетерионе.	555 77 855	555 78 855

Row Span



```
Name:
 Bill Gates
 Mark Zuckerberg
>
 Telephone:
 555 77 854
 555 78 854
555 77 855
 555 78 855
```

HTML Table with Caption



- To add a caption to a table
 - use the <caption> tag

Monthly savings

Month	Savings
January	\$100
February	\$50





```
<caption>Monthly savings</caption>
Month
 Savings
>
 January
 $100
February
 $50
```



Introduction to Cascading Style Sheet (CSS)

Cascading Style Sheet (CSS)



- CSS is a stylesheet language
- Describes the presentation of an HTML
- CSS describes how elements must be rendered on screen
- CSS saves a lot of work
 - It can control the layout of multiple Web pages all at once

Why Use CSS?



- CSS is used to define styles for your web pages including
 - the design
 - layout
 - variations
 - in display for different devices and screen sizes

Cascading Style Sheet (CSS)



The cascading style sheets specify rules

that how the content of elements within web document should appear.

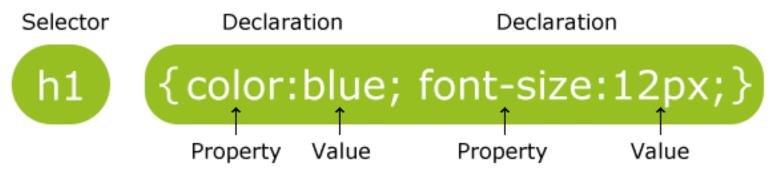
For example,

- the background of the page is a cream color,
- the contents of all elements should be displayed in gray using the Arial typeface,
- all <h1> elements should be in red using the Times New Roman typeface.

CSS Syntax



A CSS rule set consists of a selector and a declaration block:



- The selector points to the HTML element
- The declaration block contains one or more declarations
 - Each declaration includes a property name and a value

CSS Selector



 Selectors are patterns used to select the element(s) / tag(s) we want to style.

Selector	Example
.class	.intro
#id	#firstname
element	р
element, element	div, p
element element	div p

For complete list of selectors, visit following link

http://www.w3schools.com/cssref/css_selectors.asp

The element Selector



The element selector selects elements based on the element name

```
p {
    text-align: center;
    color: red;
}
```

selects all elements on a page

The id Selector



- The id selector uses the id attribute of an HTML element to select a specific element
- The id of an element should be unique within a page

```
#para1 {
    text-align: center;
    color: red;
}
```

selects a specific element, based on id, within a page

The class Selector



- The class selector selects elements with a specific class attribute
- To select elements with a specific class, write a period (.) character, followed by the name of the class

```
.center {
    text-align: center;
    color: red;
}
```

 All elements with class="center" will be red and center-aligned

Combining Selectors



We can also specify that only specific HTML elements should be affected by a class.

```
p.center {
    text-align: center;
    color: red;
}
```

Only elements with class="center" will be center-aligned

Grouping Selectors



If we have elements with the same style definitions

```
We can group the selectors
h1 {
    text-align: center;
    color: red;
                                h1, h2, p {
                                    text-align: center;
                                    color: red;
h2 {
    text-align: center;
    color: red;
    text-align: center;
    color: red;
```



Adding Style Sheet to Webpage

Ways to Insert CSS Rules



- There are three ways of inserting CSS rules:
 - Inline style
 - Internal style
 - External style sheet

1st Method: Inline Style



- An inline style may be used to apply a unique style for a single element
- To use inline styles, add the style attribute to the relevant element
- The style attribute can contain any CSS property.

```
<h1 style="color:blue; margin-left:30px;">
This is a heading.</h1>
```

2nd Method: Internal Style



- An internal style sheet may be used if one single page has a unique style
- Internal styles are defined within the <style>
 element, inside the <head> section of an HTML page





```
<head>
     <style>
           body {
                background-color: linen;
           h1 {
                color: maroon;
                margin-left: 40px;
     </style>
</head>
```



3rd Method: External Style Sheet

- An external style sheet can change the look of an entire website by changing just one file!
- Each page must include a reference to the external style sheet file inside the k> element.

3rd Method: External Style Sheet



- An external style sheet can be written in any text editor.
- The file should not contain any html tags.
- The style sheet file must be saved with a .css extension

Live demo

Multiple Style Sheets



- If some properties have been defined for the same selector (element) in different style sheets,
 - the value from the last read style sheet will be used

```
Assume that an external style sheet has the following style for the <h1> element h1 {
      color: navy;
}
```

```
Then, assume that an

internal style sheet also
has the following style for the
<h1> element
h1 {
    color: orange;
}
```

Multiple Style Sheets



If the internal style is defined after the link to the external style sheet, the <h1> elements will be "orange"

Cascading Order



- All the styles will "cascade" into a new "virtual" style sheet by the following rules,
 - where number one has the highest priority:
- 1. Inline style (inside an HTML element)
- 2. External and internal style sheets (in the head section)
- Browser default



CSS Box Model

The CSS Box Model



- All HTML elements can be considered as boxes
- In CSS, the term "box model" is used when talking about design and layout
- The CSS box model is essentially a box that wraps around every HTML element
- It consists of: margins, borders, padding, and the actual content

The CSS Box Model



