# Web Technologies

Week # 7: CSS Position and Styling

Spring 2023

# **Today's Objective**

- Recap
- The Box Model
- CSS Border
- CSS Margin
- CSS Padding
- CSS Position

#### The Box Model

- Box Model has:
  - Content
  - Padding
  - Border
  - Margin

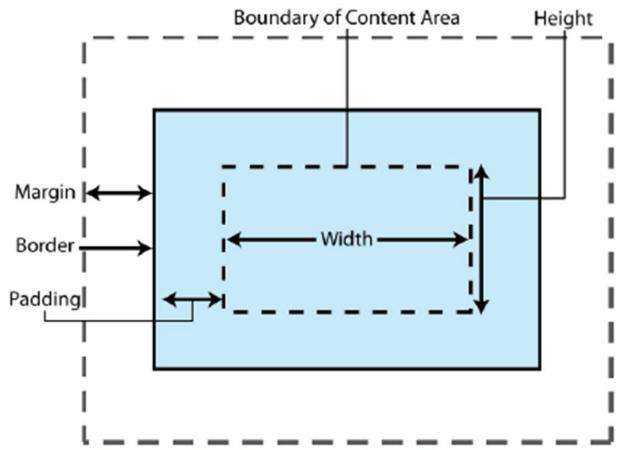


Figure 4.4 Box model diagram

### **CSS Border Properties**

- Following border properties can be applied to an element:
  - The **border-color** property is used to set the color of the border.
  - The **border-style** property is used to set the style of border.
  - The border-width property is used to set the width of border.
  - The border-top, right, bottom, left is used to set individual side style of border.
  - The border-radius property is used to make round corners of the border.
  - The border property is used to set the width, style and color of the border in one declaration.

### **CSS Margin**

- The margin property is used to make a space around the element and it is outside the border.
- The margin for each side i.e. margin-top, margin-right, margin-bottom, and margin-left can be set individually.
- The margin property can have the following values:
  - o number: value in px, pt, cm etc.
  - o percentage: value like 10%, 20% ...
  - auto: the browser calculates the margin automatically (use width)
  - o inherit: margin should be inherited from the parent
- Margin can have a shorthand property as well like:
  - o margin: 25px 50px 10px 20px margin: 10px 20px 10px
  - o margin: 40px 20px margin: 50px

## **CSS Padding**

- The padding property is used to make a space around the element's content and it is <u>inside</u> the border.
- The padding for each side i.e. padding-top, padding-right,
  padding-bottom, and padding-left can be set individually.
- The padding property can have the following values:
  - o number: value in px, pt, cm etc.
  - o percentage: value like 10%, 20% ....
  - o inherit: padding should be inherited from the parent
- box-sizing property to keep width equal to the actual width of the content
- Padding can have a shorthand property as well like:
  - o padding: 10px 30px 20px 50px padding: 10px 30px 10px
  - o padding: 60px 40px padding: 30px

### **CSS Display Property**

- The display property is used to control the content layout on the page.
- It controls if and how an element is displayed
- The possible values can be:
  - Inline show elements inline (override)
  - block show elements in block form (new line override)
  - inline-block
  - o none do not display the element and do not occupy any space as well.
    - visibility: hidden alternate to display: none but it keeps the space of element

#### **CSS Position**

- The position property specifies the positioning method for an element.
  - Where to place the element on the webpage.
- There are five different values of position element:
  - static default value of HTML elements
  - relative position relative to its normal position
  - o absolute takes the position relative to its nearest element
  - fixed fixed at relative to viewport i.e. do not change if page is scrolled or not
  - sticky this is based on scrolling, sticks to top of viewport

### Some more important Properties

- Max-Width width to adjust horizontal scroll
- Z-index stack of elements is controlled by z-index
- Overflow controls the content if it is more than available container
- Float flow the element on the page to right or left
- Opacity set the transparency of an element (images)
- CSS Gradient Set the color in gradient style (linear, circular,...)

That's all for today...!