

# Introduction to CSS



# Basics of CSS

- CSS stands for Cascading Style Sheets
- CSS describes how HTML elements are to be displayed on screen, paper, or in other media
- It can control the layout of multiple web pages all at once
- External stylesheets are stored in CSS files

# Basic Syntax:

Selector

```
h1 {  
    color: red;  
}
```

Property      Value

# Types of CSS

- **Inline CSS**
- **Internal or Embedded CSS**
- **External CSS**

# Linking CSS to HTML

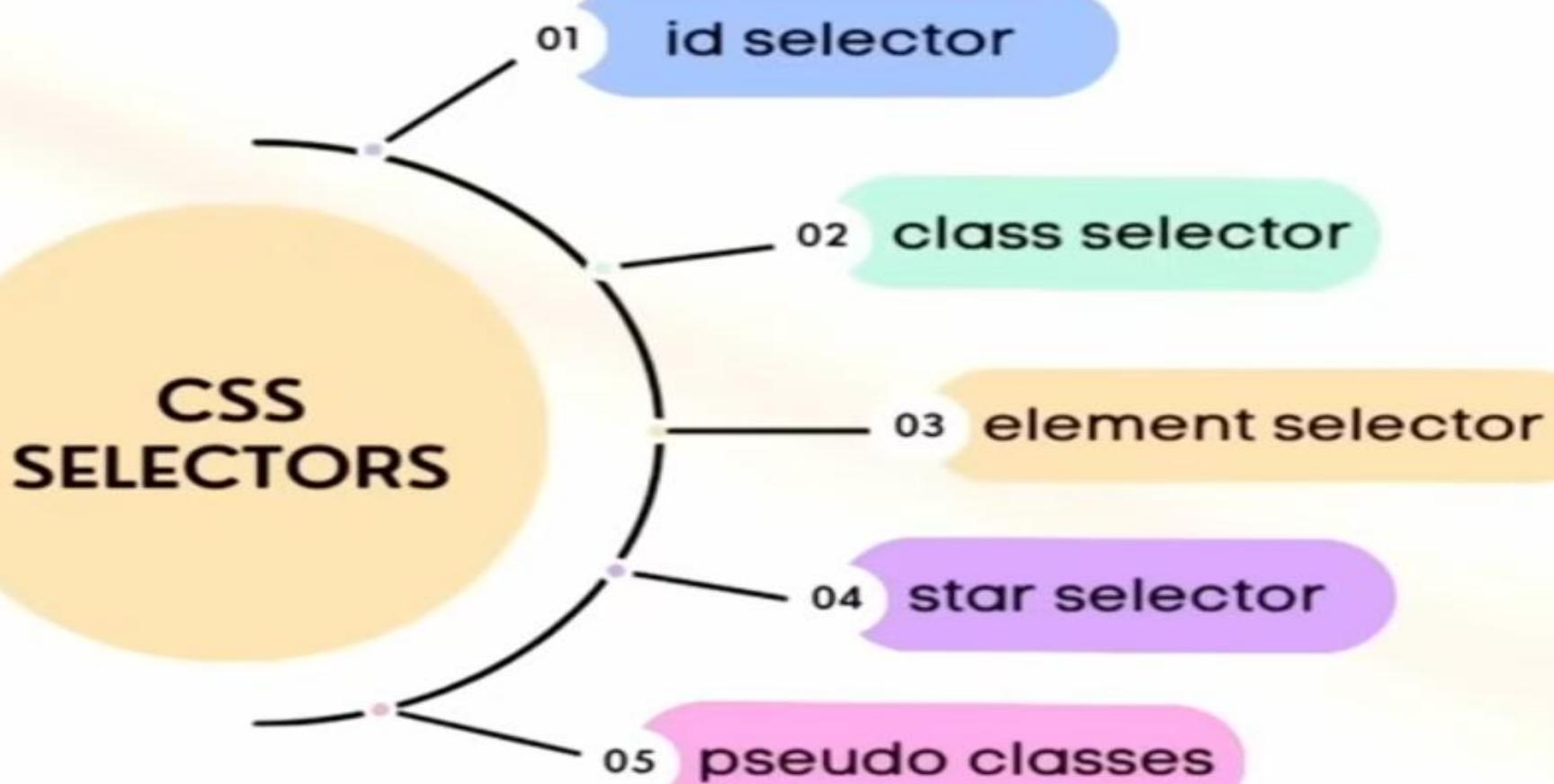
## 1. Linking External CSS (<link>):

Create a separate CSS file (e.g., "styles.css") and define your styles within it.

## **Steps:**

- 1. Create a CSS File**
- 2. Create an HTML Document**
- 3. Link the CSS File**
- 4. Place HTML Content**
- 5. Save and Open**

# CSS Selectors



# CSS Selectors

- CSS selectors are patterns used to select and style HTML elements on a web page.
- They determine which elements in the HTML document will be affected by the defined styles.

1. **Element**

2. **Class**

3. **ID**

4. **Star Selector**

# Element Selector

An element selector in CSS is used to target and style all HTML elements of a specific type. It selects elements based on their HTML tag name.

```
p {  
    color: blue;  
}
```

# Class Selector

A class selector in CSS is used to target and style HTML elements that have a specific class attribute. It allows you to apply styles to one or more elements on a page that share the same class.

```
.highlight {  
    background-color: yellow;  
}
```

# ID Selector

An ID selector in CSS is used to target and style a single HTML element that has a specific ID attribute. It allows you to apply styles to a unique element on a page.

```
#header {  
    font-size: 24px;  
}
```

# Star(\*) Selector

An element selector in CSS is used to target and style all HTML elements of a specific type. It selects elements based on their HTML tag name.

color: red;

g

# Styling Text, Colors, and Backgrounds



# Text Properties

- Text-align
- Text-decoration
- Font-weight
- Font-family
- Line-height
- Text-transform

# Text-align

- **text-align : left / right / center**

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

```
.center-text {  
    text-align: right;  
}
```

```
.center-text {  
    text-align: left;  
}
```

**text-align: center;**

**text-align: right;**

**text-align: left;**

# Text-decoration

- **text-decoration** : underline / overline / line-through

This text is underlined

—————  
This text has an overline

~~This text has a line through~~

This text blinks

```
a:hover {  
    text-decoration: underline;  
}
```

# Font-weight

- **font-weight**: normal / bold / bolder / lighter
- **font-weight**: 100-900

normal

bold

bolder.

lighter.

```
strong {  
    font-weight: bold;  
}
```

# Font-family

- **font-family : arial**
- **font-family : arial, roboto**

serif

sans-serif

cursive

**fantasy**

monospace

```
body {  
    font-family: Arial, sans-serif;  
}
```

# Background Properties

- Background color property
- Background Image Property
- Background- Repeat Property
- Background size property
- Background position property
- Background shorthand property

# Background position property

- background-position: left/top/center/bottom/right;



# Background shorthand property

```
background: [background-color] [background-image] [background-repeat]  
          [background-attachment] [background-position];
```

- background: #00AABB url('background-image.jpg') no-repeat center center;

# Units, Position & Display properties



# Units in CSS

- CSS has several different units for expressing a length.
- Many CSS properties take "length" values, such as width, margin, padding, font-size, etc.
- Length is a number followed by a length unit, such as 10px, 2em, etc.

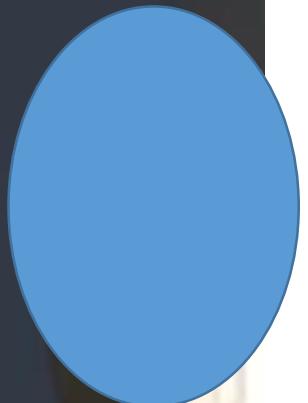
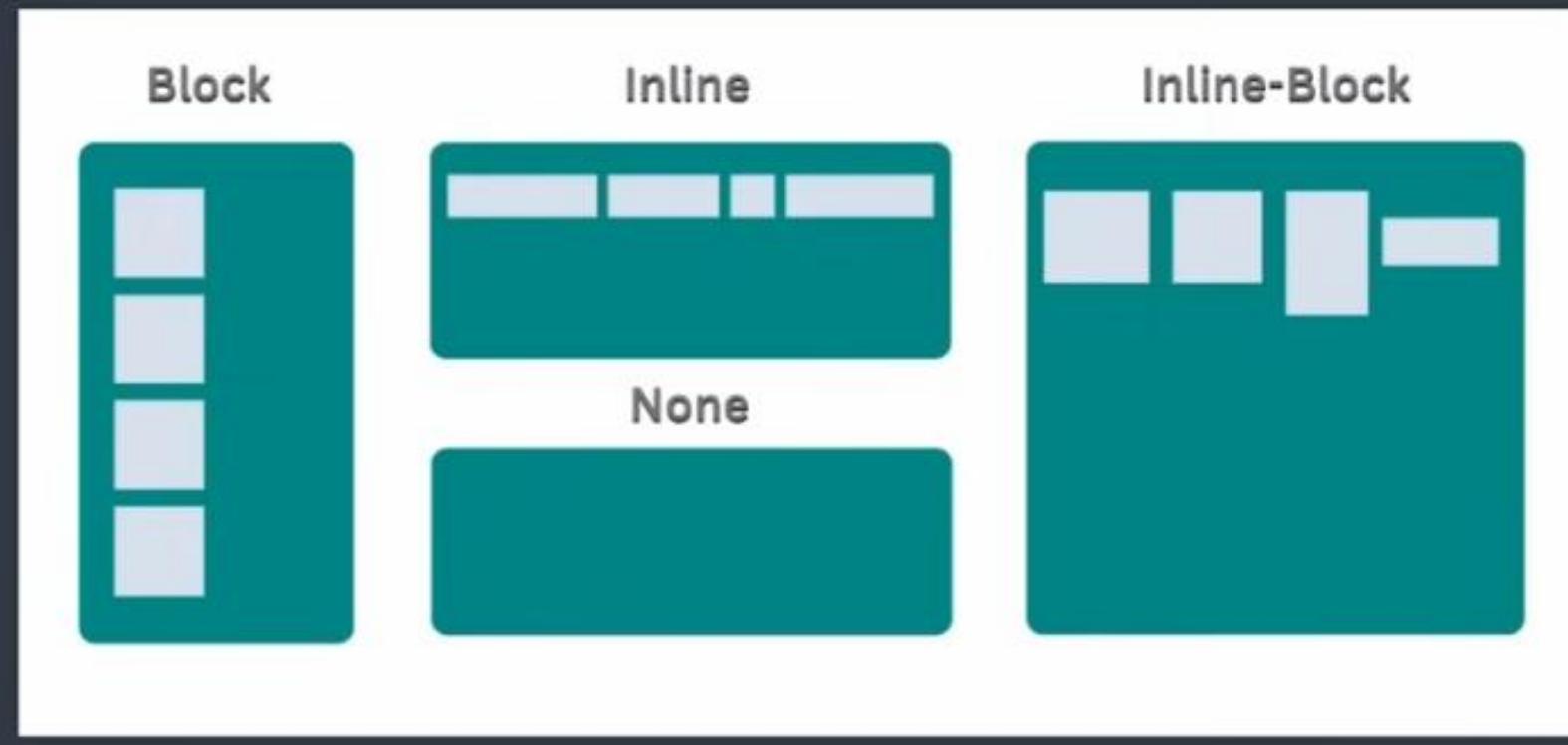
## 6

## CSS Units

Unit	Meaning
px	Fixed size
%	Relative
em	Parent based
rem	Root based
vh	Viewport height
vw	Viewport width

# CSS Display Property

- The display property specifies the display behavior (the type of rendering box) of an element.



# CSS Display Property

`display: inline / block / inline-block / none`

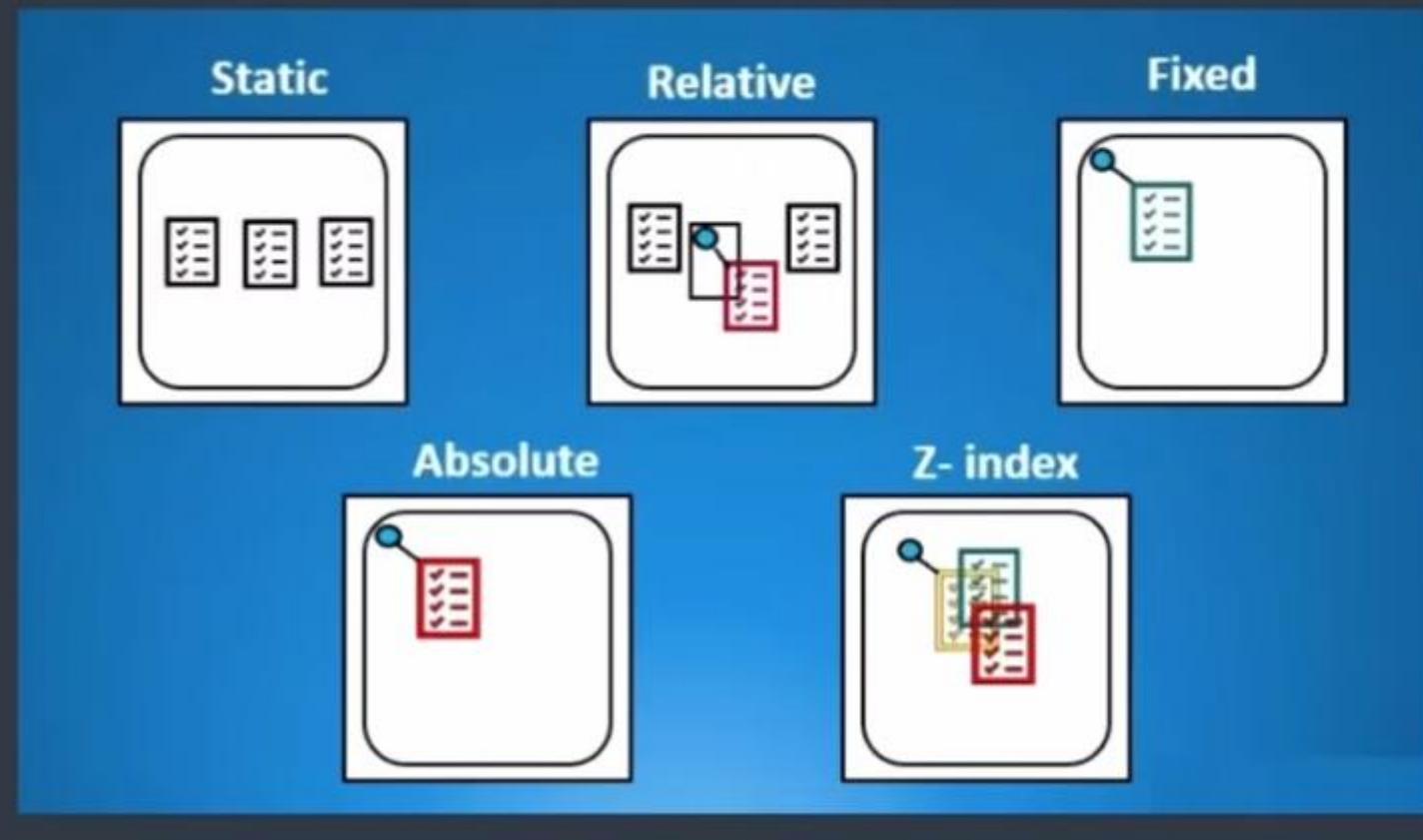
- **inline** - Takes only the space required by the element. (no margin/ padding)
- **block** - Takes full space available in width.
- **inline-block** - Similar to inline but we can set margin & padding.
- **none** - To remove element from document flow.

# CSS Position Property

- The position CSS property sets how an element is positioned in a document.

**position : static / relative / absolute / fixed**

# CSS Position Property



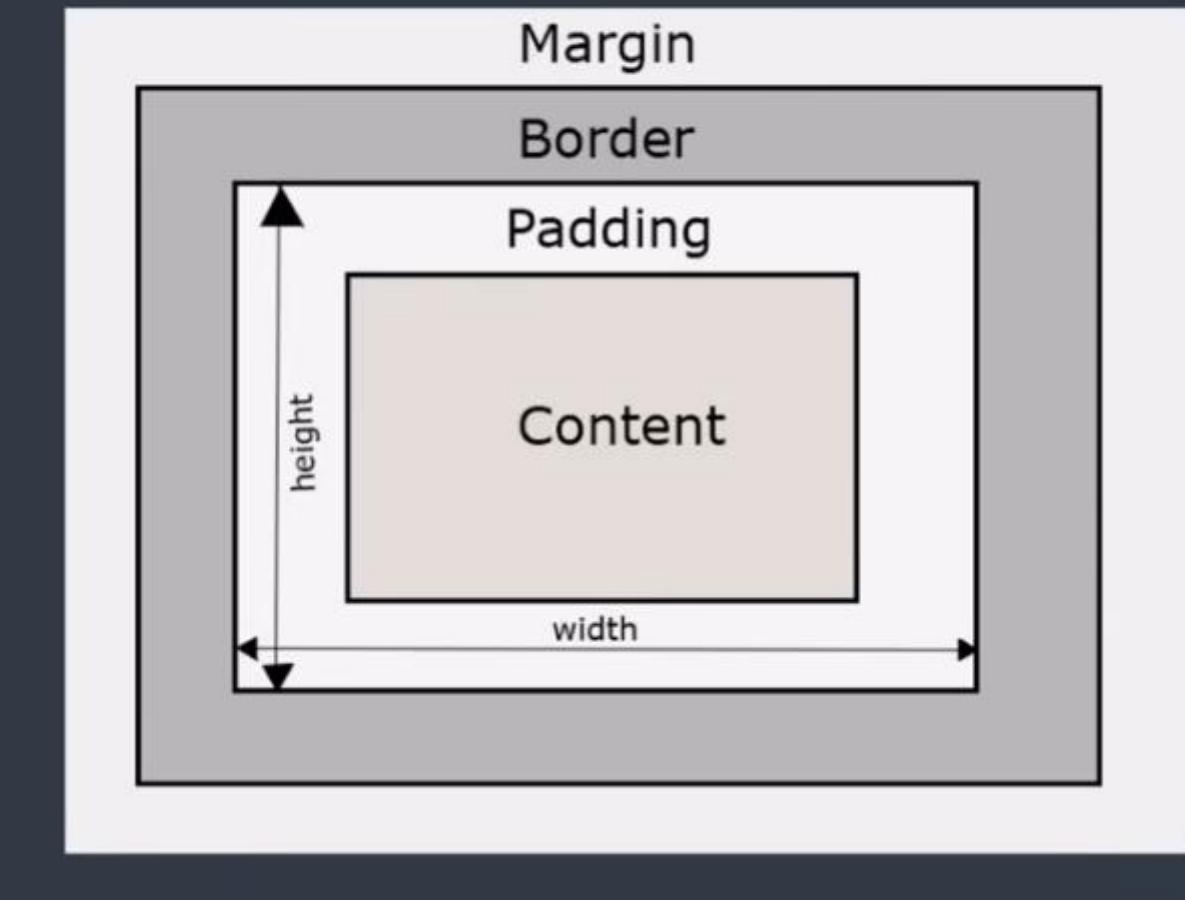
# Position

- **static** - default position (The top, right, bottom, left, and z-index properties have no effect)
- **relative** - element is relative to itself. (The top, right, bottom, left, and z-index will work)
- **absolute** - positioned relative to its closest positioned ancestor. (removed from the flow)
- **fixed** - positioned relative to browser. (removed from flow)
- **sticky** - positioned based on user's scroll position

# CSS Box Model

- Height
- Width
- Border
- Padding
- Margin
- Content

# CSS Box Model



# CSS Box Model

input

```
div {  
    height: 100px;  
    width: 320px;  
    padding: 10px;  
    border: 5px solid gray;  
    margin: 0;  
}
```

output

You are now seeing this box of heiht 100px, width 320px, padding of 10x, border of 5px, margin as 0