

DAY 2

HTML AND CSS

INTRODUCTION



**CSS CLASS AND ITS
ATTRIBUTES**



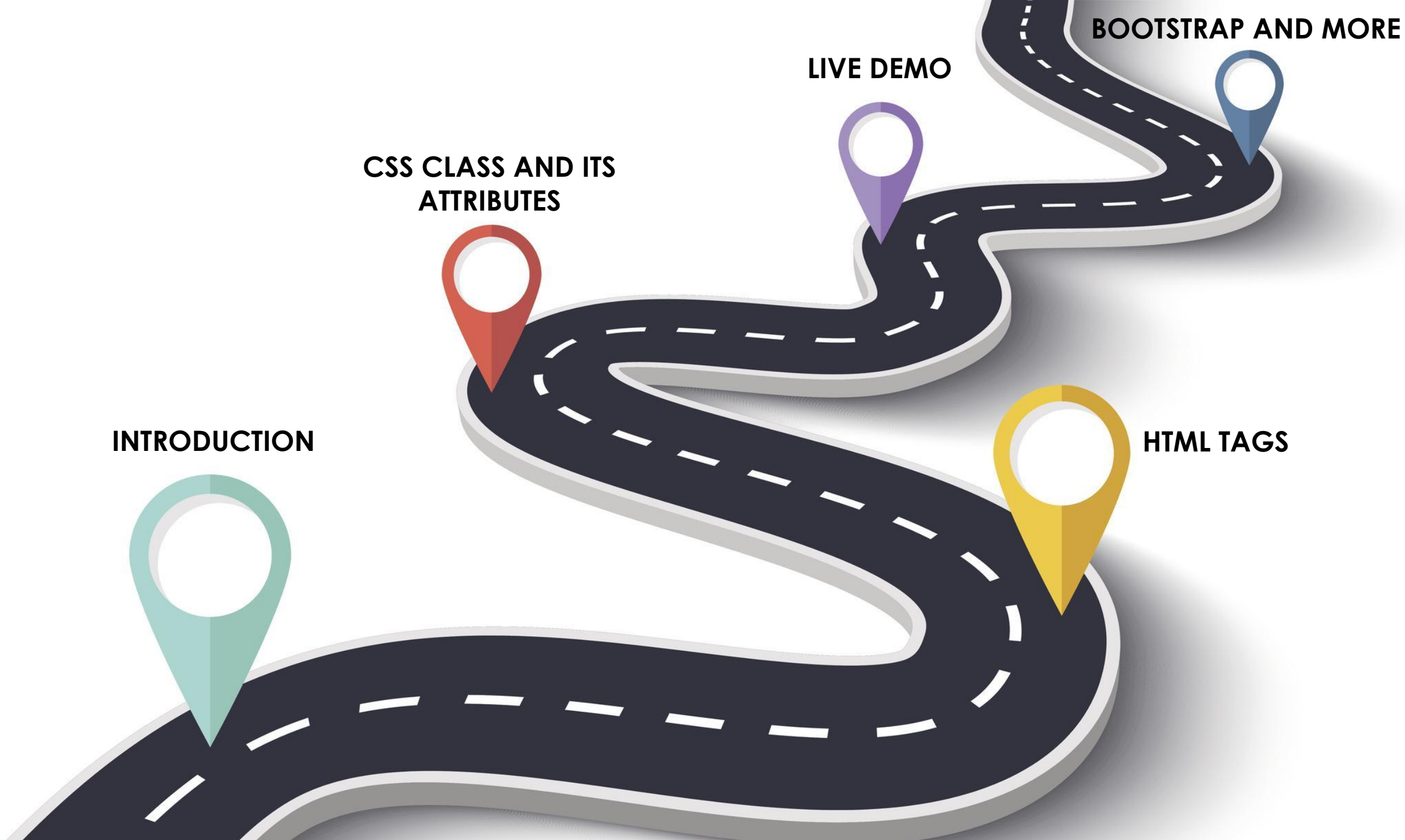
LIVE DEMO



HTML TAGS



BOOTSTRAP AND MORE



INTRODUCTION

HTML

- Static Markup Language
- Hyper Text Markup Language
- Determines the content of the page
- Consists of series of elements

CSS

- Styling Language
- Cascading Style Sheet
- Determines how contents are placed
- Controls layout of the page



HTML

- HTML is the structure of a page
- Every website have HTML
- You can view it by right clicking and selecting “View Page Source”

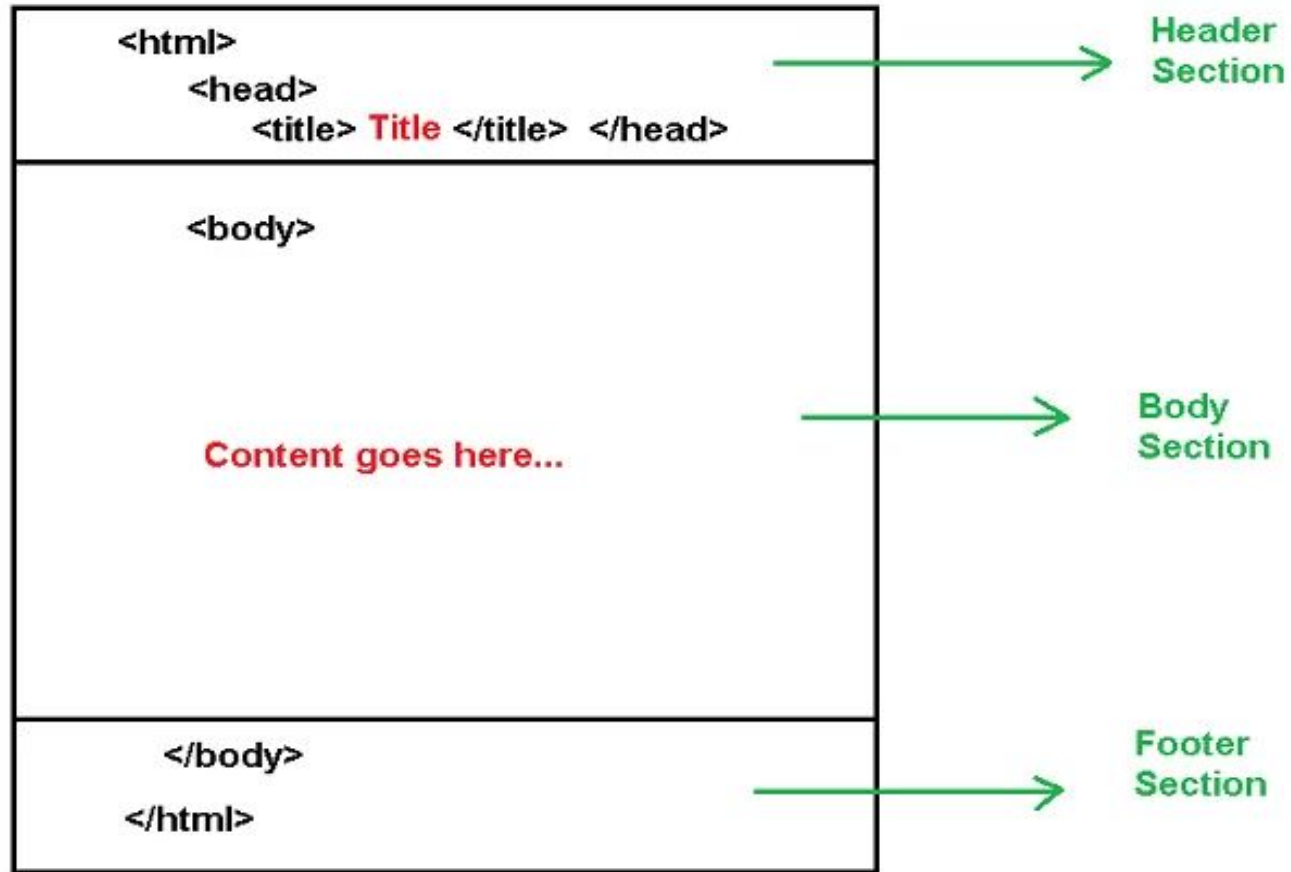


OUR GOAL

- HTML Basics
- Tagging
- Lists
- Divs and Spans
- Attributes



HTML STRUCTURE



TAGS IN HTML

- Heading Tag
 - `<h1>` , `<h2>` , `<h3>` , `<h4>` , `<h5>` , `<h6>`
- Paragraph Tag
- **Bold** text
- Text in *Italics*
- Anchor Tag



DIV AND SPAN

- Div tag
 - Block line container used to group number of HTML elements.
- Span tag
 - Inline container used to group of HTML elements.



LISTS IN HTML

- Ordered Lists
- Unordered Lists

- | | |
|---|--|
| <ul style="list-style-type: none">• Bullet one• Bullet two<ul style="list-style-type: none">○ Sub of Bullet two○ Another sub• Bullet three• Bullet four | <ul style="list-style-type: none">1) First2) Second<ul style="list-style-type: none">a) Sub of Secondb) Another sub3) Third4) Fourth |
|---|--|



HTML TABLE

- Tables in HTML consist of several tags working together:
 - `<table>`
 - `<thead>`
 - `<th>`
 - `<tr>`
 - `<td>`



FORMS

- `<form>` tag
- `<input>` tag
 - radiobox
 - checkbox
 - text
- `<label>` tag
- `<select>` tag

First name:

Last name:

☒ HTML

☐ CSS

☐ JavaScript

☒ I have a bike

☒ I have a car

☐ I have a boat

Choose a car:

Submit



CSS

- CSS - Cascading Style Sheets
- Actual styling of the website.
- Colors, fonts, borders, etc is all defined by CSS.
- Not mandatory, but almost all sites have it.



ADDING CSS TO HTML

- Inline CSS

```
<h1 style="color:blue;">A Blue Heading</h1>
```

- Internal

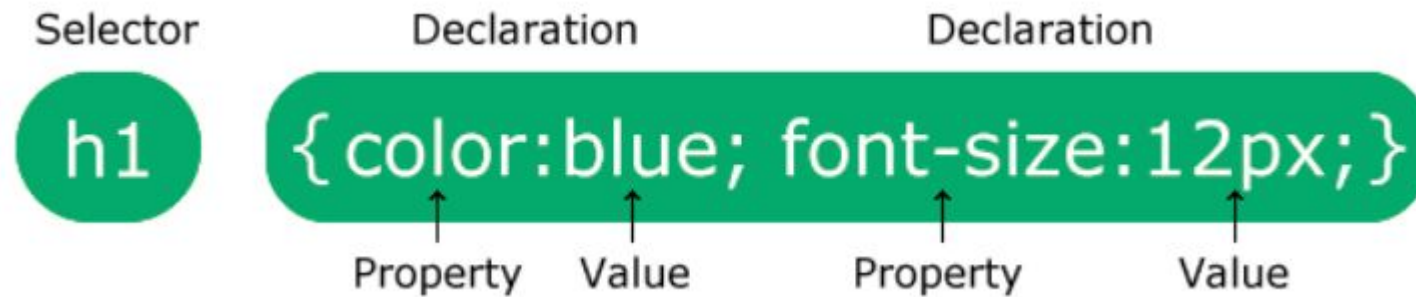
```
<style>
body {background-color: powderblue;}
h1   {color: blue;}
p    {color: red;}
</style>
```


- External

```
<link rel="stylesheet" href="styles.css">
```

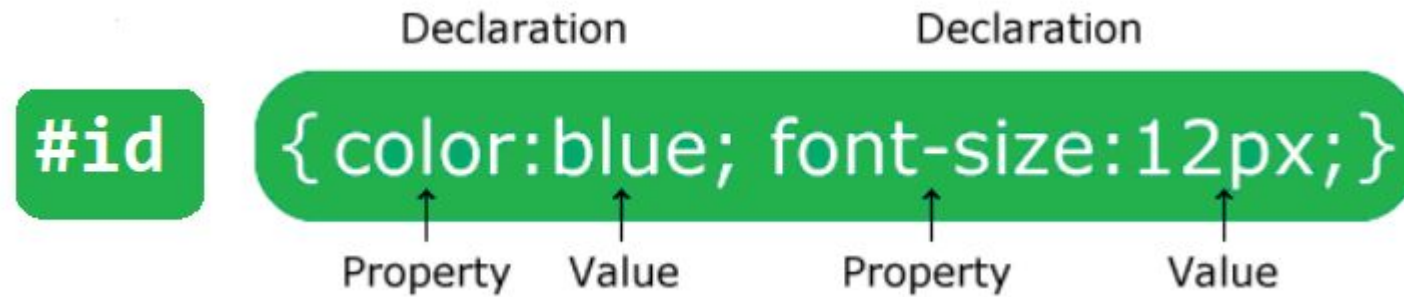


CSS SYNTAX



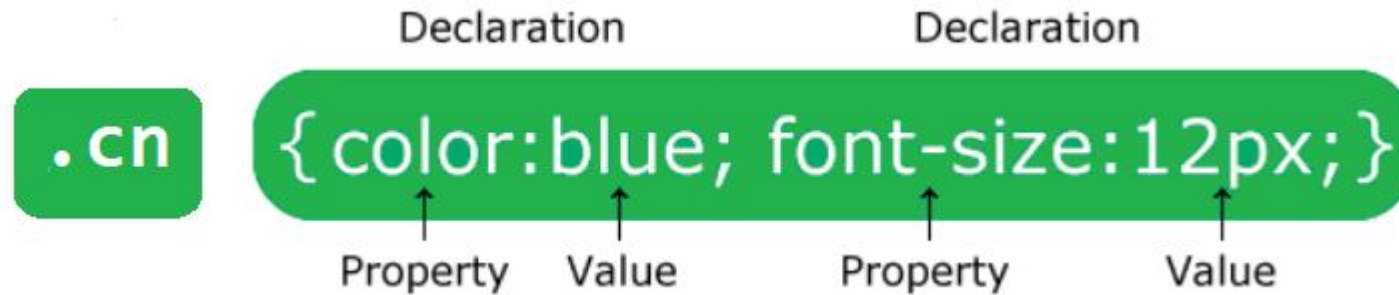
- Selector is used to select the HTML element you want to style
- One or more declarations can be added in curly braces '{ }' and separated by semicolon ';'.

CSS SELECTOR



- ‘#’ ID for selecting HTML element with that ID.

CSS CLASS



- above syntax creates class in CSS
- ‘.’ is used in front of class to declare it as class.

CSS BASIC PROPERTIES: TEXT

Property	Description	Values
color	Sets the color of a text	RGB, hex, keyword
line-height	Sets the distance between lines	normal, <i>number</i> , <i>length</i> , %
letter-spacing	Increase or decrease the space between characters	normal, <i>length</i>
text-align	Aligns the text in an element	left, right, center, justify
text-decoration	Adds decoration to text	none, underline, overline, line-through
text-indent	Indents the first line of text in an element	<i>length</i> , %
text-transform	Controls the letters in an element	none, capitalize, uppercase, lowercase

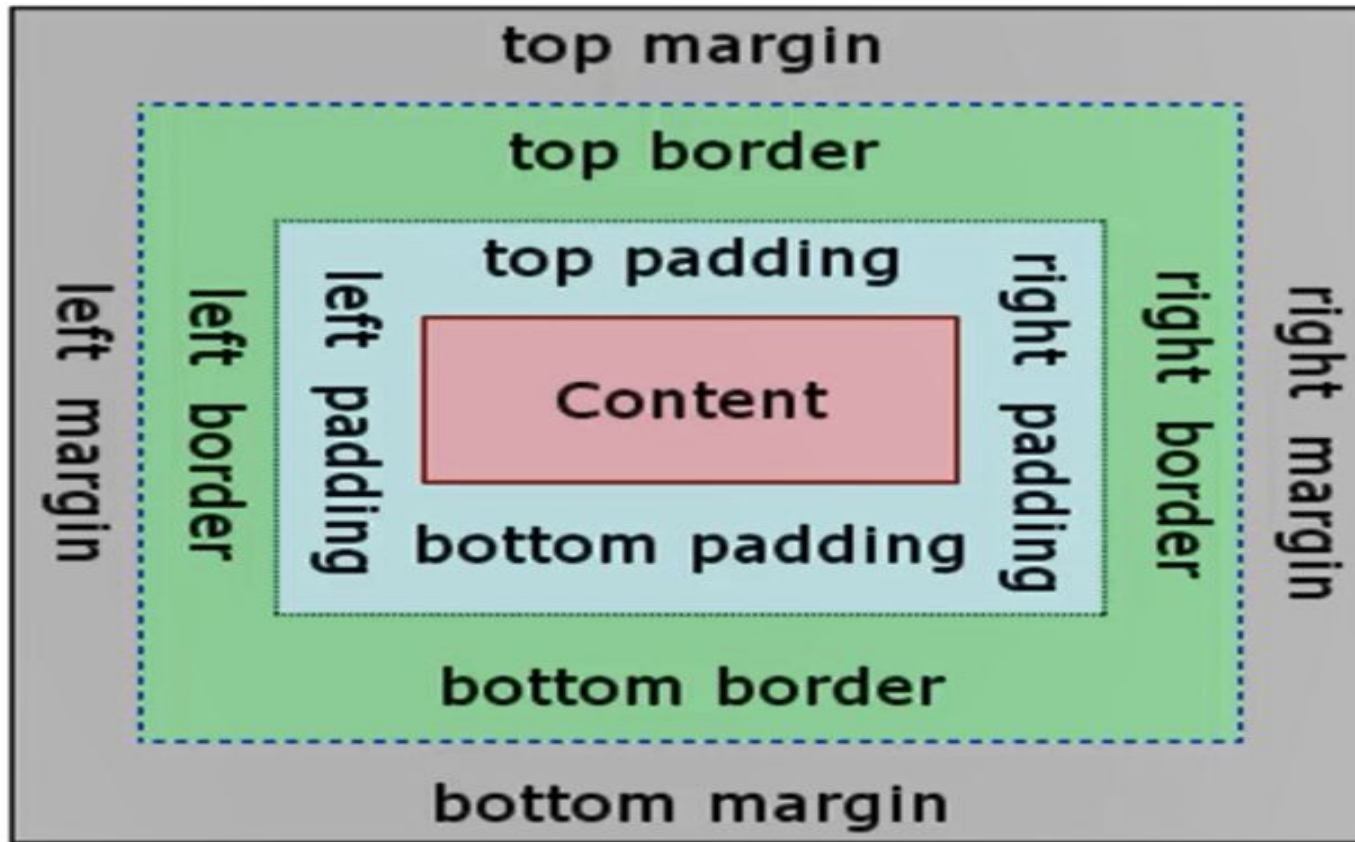
CSS BASIC PROPERTIES: FONT

Property	Description	Values
font	Sets all the font properties in one declaration	<i>font-style, font-variant, font-weight, font-size/line-height, font-family, caption, icon, menu, message-box, small-caption, status-bar, inherit</i>
font-family	Specifies the font family for text	<i>family-name, generic-family, inherit</i>
font-size	Specifies the font size of text	<i>xx-small, x-small, small, medium, large, x-large, xx-large, smaller, larger, length, %, inherit</i>
font-style	Specifies the font style for text	<i>normal, italic, oblique, inherit</i>
font-variant	Specifies whether or not a text should be displayed in a small-caps font	<i>normal, small-caps, inherit</i>
font-weight	Specifies the weight of a font	<i>normal, bold, bolder, lighter, 100, 200, 300, 400, 500, 600, 700, 800, 900, inherit</i> Careful, many of these are not supported!

CSS BASIC PROPERTIES: OTHERS

Property	Description	Values
<code>border-radius</code>	A shorthand property for the four <i>border-*-radius</i> properties	number,length, %
<code>background-color</code>	Specifies the background color of an element	predefined, rgb,hex
<code>border-color</code>	Sets the color of the four borders	predefined, rgb,hex
<code>border-style</code>	Sets the style of the four borders	dashed, dotted, solid, double, etc
<code>border-width</code>	Sets the width of the four borders	number,length, %
<code>background-image</code>	Specifies one or more background images for an element	url of image
<code>overflow</code>	Specifies what happens if content overflows an element's box	scroll, hidden, auto, visible

BOX MODEL



CSS COLORS

- Predefined Colors
 - Teal, Magenta, Red, Blue, Green
- RGB
 - `rgba(red,blue,green,alpha)`
 - ranges from 0 to 255, determines the amount of color.
 - alpha denotes opacity of the color.
- HEX
 - `#rrggbb`
 - ranges from 00 to FF.
 - r, g, b denotes red, blue and green respectively.



CSS FLEXBOX

- Required for responsive designs on the variable sizes of the screen.
- flex property
 - auto, initial, none
 - flex-grow | flex-shrink | flex-basis
 - flex-grow: relative size of item with other
 - flex-shrink: shrink size relative to other item
 - flex-basis: initial length of the item
- flex-direction



auto

auto

auto

auto

initial

initial

auto

auto

none

initial

none

none

4

2

1

BOOTSTRAP AND MORE

- CSS Framework for building responsive designs instantly.
- Usually added to HTML as:

Inside <head></head>

<link

href="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/css/bootstrap.min.css" rel="stylesheet"

integrity="sha384-EVSTQN3/azprG1Anm3QDgpJLIm9Nao0Yz1ztcQTwFspd3yD65VohhpuuCOmLASjC" crossorigin="anonymous">

Inside <body></body>

<script

src="https://cdn.jsdelivr.net/npm/bootstrap@5.0.2/dist/js/bootstrap.bundle.min.js"

integrity="sha384-MrcW6ZMFYlzcLA8Nl+NtUVF0sA7MsXsP1UyJoMp4YLEuNSfAP+JcXn/tWtIaxVXM"

crossorigin="anonymous"></script>



BOOTSTRAP AND MORE

- Source file can be downloaded and edited as it is an open source framework.

<https://getbootstrap.com/docs/5.0/getting-started/download/>

- Presents different prebuilt classes that can be used instantly for designing our HTML.
- Similarly, we have Tailwind CSS, Material UI and many more similar to bootstrap that can be used in our website to make it crisply good.



REFERENCES

- <http://web.simmons.edu/~grabiner/comm244/weekthree/css-basic-properties.html>
- https://www.w3schools.com/css/css3_flexbox_responsive.asp
- <https://developer.mozilla.org/en-US/docs/Web/CSS/flex#flex-basis>



THANK YOU

