

# Session starting soon

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# Welcome To Day <2/>



Level up your skills during winter chillllsss

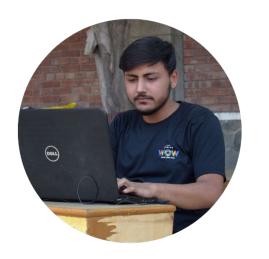
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# **About the Mentor**

<u>Sagar Kumar Jha</u> is an accomplished professional with diverse experience across high-impact organizations.

- Interned at DRDO, focusing on APK & API Security.
- Interned at the Special Protection Groups(SPG), specializing in Radar Communication Systems.
- Interned at NITI Aayog, contributing to Software Engineering projects.



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# **About the Instructor**

Divyansh Raj is a skilled professional currently serving as the Technical Lead of GDGC and an intern at Delhi Government University, showcasing his expertise in technical leadership and project execution.



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### **Connect With Us!**



Sagar Kumar Jha (Mentor)



Divyansh Raj (Instructor)



# Day 2: CSS

All about Cascading Style Sheets.



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### Let's Start!

**CSS:** Where Style Meets Structure!

CSS lets you add style(s) to websites (colors, font-size, background color etc.)

Used for positioning tags on the website.

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#### How CSS Works in the Browser:

#### HTML Parsing:

The browser parses the HTML to create the DOM (Document Object Model), which is a tree representation of the content.

#### 2. CSS Parsing:

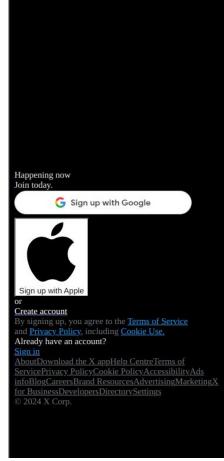
The browser parses CSS files or <style> blocks to create the CSSOM (CSS Object Model), which is a tree of styles.

#### 3. DOM + CSSOM:

The DOM and CSSOM are combined to create the Render Tree, which represents what the user will see, including styles.

#### 4. <u>Layout and Painting</u>:

The browser calculates the layout (position, size) of elements and "paints" them on the screen.



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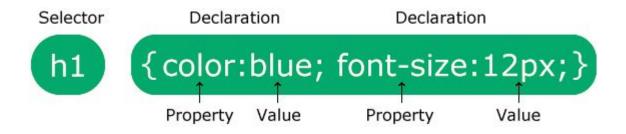
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WITHOUT CSS

### 1. CSS Basics

CSS can be added using three methods: Inline, external, and External Styles.

# 2. Syntax



- The selector points to the HTML element you want to style.
- The declaration block contains one or more declarations separated by semicolons. Each declaration includes a CSS property name and a value, separated by a colon.
- Multiple CSS declarations are separated with semicolons, and declaration blocks are surrounded by curly braces.

# 3. Important Styling Properties

- I. Border and Border-Radius
- II. Padding and Margin
- III. Box-Shadow
- IV. Typography (Font-Size and Font-Weight)
- V. Positioning in CSS
- VI. Float Property

# 4. Responsiveness

Responsiveness is how a website looks in different screen sizes

How is responsiveness achieved:

- Flex Box
- Grid
- Media Queries

### 4. Flex Box

MyWebsite Home About Services Contact Sign Up

display: flex; makes the container a flexbox.

• justify-content: space-between; distributes items across the available width with space between them.

align-items: center; aligns items vertically in the center.

# **Justify Content & Align Items**

#### 1. justify-content

- Purpose: Aligns items horizontally (along the main axis by default) inside a container.
- Common Values:
  - o flex-start: Align items to the start of the container.
  - o flex-end: Align items to the end of the container.
  - center: Center items within the container.
  - o space-between: Distribute items with space between them.
  - o space-around: Distribute items with space around them.
  - o space-evenly: Distribute items with equal space between, before, and after.

#### 2. align-items

- Purpose: Aligns items vertically (along the cross axis by default) inside a container.
- Common Values:
  - o flex-start: Align items to the top of the container.
  - o flex-end: Align items to the bottom of the container.
  - o center: Center items vertically.
  - stretch: Stretch items to fill the container (default for block-level elements).
  - baseline: Align items' baselines.

# **Justify Content & Align Items**

When you learn how to center a div:



### 5. Grid

Designed to handle the creation of 2D layouts in web development.

#### Grid Container:

- To start using Grid, set the display property of the parent container to grid or inline-grid.
- The grid container defines rows, columns, and gaps between grid items.

#### Grid Items:

- Direct children of the grid container automatically become grid items.
- You can position them explicitly using grid properties.

### 6. Media Queries

Allows developers to apply different styles to a website based on the characteristics of the device or viewport (like screen size, resolution, or orientation). This helps create responsive designs that adapt to various devices (e.g., mobile, tablet, desktop).

### **Basic Syntax**

```
@media (condition) {
   /* CSS rules */
}
```

### Max-width & Min-width

#### max-width:

- 1. max-width is used in media queries to apply styles when the screen width is less than or equal to the specified value.
- 2. It's commonly used for targeting smaller devices, such as applying styles for mobile screens.

#### min-width:

- 1. min-width is used in media queries to apply styles when the screen width is greater than or equal to the specified value.
- 2. It's useful for implementing styles for larger screens, such as tablets and desktops.

### 8. Best Practices

#### **Always Start Mobile first**

- 1. Mobile-First Approach:
- Define styles for smaller screens first, then add styles for larger screens using min-width.

- 2. Avoid Overusing Media Queries:
- Use responsive units (like em, rem, %) where possible to reduce reliance on media queries.

- 3. Test on Real Devices:
- Always test the responsiveness on different devices and screen sizes.

# 9. Ending Notes & Assignment

### Extra things you can learn:

- 1. Grid Advanced
- 2. Use of units like em, rem, %, vh, vw
- 3. Advanced Media query
- 4. PRACTICE, PRACTICE & PRACTICE

Make the navbar responsive and as useful as it can be

https://github.com/GDG-ADGIPS/GDGC-WINTER-BOOTCAMP-WEBDEV



# **Thank You!**

That's all for today!

I would love to connect with all of you guys:)

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