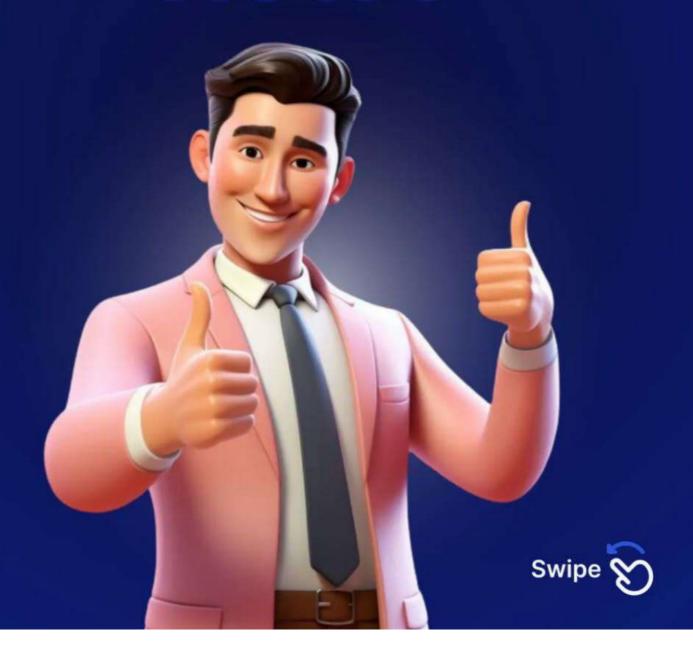




# CSS Notes







#### 1. Introduction to CSS

#### What is CSS?

CSS (Cascading Style Sheets) is used to style and layout web pages.

#### **How CSS Works**

It controls the look and feel by applying styles to HTML elements.

## 2. Basic Syntax

#### **CSS Rule Structure**

```
selector {
  property: value;
}
```

Selector targets the HTML element.

Property and Value define the style (e.g., color: red;).









### 3. CSS Selectors

#### **Basic Selectors**

Target elements in various ways

```
/* Tag selector */
p { color: blue; }

/* Class selector */
.class-name { color: green; }

/* ID selector */
#id-name { color: purple; }
```

## 4. Typography

### Fonts and Text Styling

```
body { font-family: Arial, sans-serif; font-size: 16px; }
p { font-weight: bold; text-align: center; color: navy; }
#id-name { color: purple; }
```









## 5. Colors and Backgrounds

#### Colors

Set text, background, and border colors.

```
body { color: #333; background-color: #f0f0f0; }
```

### **Background Images**

```
body {
  background-image: url("image.jpg"); background-size: cover;
}
```









#### 6. Box Model

#### **Box Model Basics**

Every element has a content area, padding, border, and margin

```
div {
   width: 200px;
   padding: 10px;
   border: 1px solid black;
   margin: 20px;
}
```

## 7. CSS Layouts

#### **Flexbox**

Simplifies layout alignment and distribution

```
.container {
   display: flex;
   justify-content: center; /* horizontal alignment */
   align-items: center; /* vertical alignment */
}
```









#### Grid

For creating complex, two-dimensional layouts

```
.grid-container {
   display: grid;
   grid-template-columns: 1fr 1fr 1fr; /* 3 columns */
   gap: 10px;
}
```

## 8. Positioning

### **Position Property**

Controls how elements are positioned on the page.

```
.absolute-box {
   position: absolute; top: 50px; left: 100px;
}
.fixed-header {
   position: fixed; top: 0;
}
```









## 9. Responsive Design Media Queries

Make layouts responsive across devices

```
@media (max-width: 600px) {
  body { font-size: 14px; }
}
```

## 10. CSS Transitions & Animations Transitions

Smoothly change properties over time

```
button {
  transition: background-color 0.3s;
}
button:hover { background-color: blue; }
```









#### **Animations**

Create animations with @keyframes.

```
@keyframes slide {
   from { left: 0; }
   to { left: 100px; }
}
```

## 11. Advanced Selectors & Pseudo-Classes

```
a:hover { color: red; } /* When mouse hovers over */
input:focus { border-color: green; } /* On input focus */
```



