

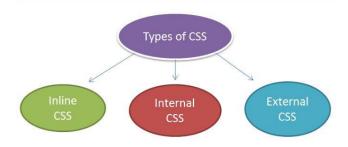
1. What is CSS

- CSS stands for Cascading Style Sheets
- CSS is the language we use to style an HTML document.
- CSS describes how HTML elements should be displayed

2. Syntax of CSS

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

3. What are the way to apply CSS / Different types of CSS



a. Inline CSS:

Uses style attribute to write

Example: This is a red paragraph.

b . Internal CSS:

Defined within the <style> tag in the <head> section of an HTML document.

Eg: <style>

```
p {
     color: green;
}
</style>
```

c . External CSS:

Written in a separate .css file linked to the HTML document.

Eg: <link rel="stylesheet" href="styles.css">

4. Different CSS Selectors

■ Universal Selector (*):

Targets all elements.

■ Element Selector:

Elements specified by their tag name.

Class Selector (.):

Targets elements with a specific class attribute.

■ ID Selector (#):

Targets an element with a specific id attribute.

```
Eg: #id-name {
          font-weight: bold;
}
```

Attribute Selector:

Targets elements with specific attributes.

```
Eg:[type="text"] {
    border: 1px solid #ccc;
}
```

Pseudo-classes:

Target elements based on their state.

Pseudo-elements:

Style specific parts of an element.

```
Eg: p::first-line {
    font-weight: bold;
}
```

5. CSS Properties

Text Properties:

- **color**: Text color.
- **font-size**: Size of the text.
- font-family: Font type.
- **text-align**: Alignment of text.
- text-decoration: Decoration of text (e.g., underline).
- line-height: Height of a line of text.

Box Model:

- Content: The actual content of the box.
- Padding: Space between the content and the border.
- Border: The border surrounding the padding.
- Margin: Space outside the border.

Background Properties:

- background-color: Background color.
- background-image: Background image.
- background-repeat: Repeat behavior of the background image.
- background-size: Size of the background image.

Layout Properties:

- **display:** Defines how an element is displayed (e.g., block, inline, flex).
- position: Specifies the positioning method (e.g., static, relative, absolute, fixed).
- top, right, bottom, left: Offset positioning.
- float: Allows elements to float to the left or right.
- clear: Controls the behavior of elements after floating elements.

6. Flexbox

Flexbox is a layout model designed to help you build flexible and responsive layouts.

Container Properties:

- display: flex;: Defines a flex container.
- flex-direction: Direction of the flex items (row, column).
- justify-content: Alignment along the main axis (e.g., center, space-between).
- align-items: Alignment along the cross axis (e.g., center, stretch).
- flex-wrap: Specifies if items should wrap (wrap, nowrap).

Item Properties:

- flex-grow: Defines the ability for a flex item to grow relative to the rest.
- flex-shrink: Defines the ability for a flex item to shrink.
- flex-basis: Defines the initial size of a flex item.
- align-self: Allows the default alignment (or the one specified by align-items) to be overridden.

7. Responsive Design

Responsive design ensures that web pages look good on all devices by using fluid grids, flexible images, and media queries.

Media Queries:

}

Used to apply styles based on the device's characteristics.

```
Example:

@media (max-width: 600px) {

.container {

flex-direction: column;
}
```