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INTRODUCTION TO CSS

1. What is Css ? (fundamentals & purpose)

Css stands for Cascading style Sheets

Why Css

- HTML defines the structure & content of a webpage (headings, pargraphs, lists etc.).
- Css defines the visual presentation - how those elements look: colors, size, fonts, layout, spacing.
- without Css, pages would look plain & unstyled (like old 90s websites)

Key Ideas

Css helps separate content (HTML) from presentation (CSS) - this makes code easier to maintain & websites more scalable

2) Inline Css

Inline Css is when you apply style directly inside an HTML tag using Style attribute

```
<h1 style = "color : blue ; font-size : 36 px ; ">Hello World</h1
```

* Pros

- Quick changes to a single element
- Useful for testing or small tweaks

* Cons

- Hard to reuse style
- Becomes messy in large projects
- Not recommended for real projects

3 Internal Css

Internal Css is written inside a <style> block in the HTML <head>

```
<head>
  <style>
    h1 {
      colors : green;
      text-align : center;
    }
  </style>
</head>
```

When to use

- Small pages
- When external stylesheet isn't needed
- useful for simple prototypes

⚠ Downside

Still not as reusable as an external file - better for one-page projects

4) External Css

Css is written in a separate .Css file & linked to the HTML

<link rel="stylesheet" href="style.css" >

Advantages

- One stylesheet can style an entire website.
- Keeps CSS & HTML cleanly separated.
- Best practice for real projects.

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5 How to Debug CSS

Important debugging tips

- Use the browser's Dev tools (right click + inspect)
- Check if
  - Css file is linked correctly.
  - CSS selectors match the HTML elements.
  - There are typos in property names or values
- Use comments to temporariely disable rules without deleting them

```
/* color: red; */
```

Understanding the Cascade

- Rules can be overridden by:
  - Later rules in the stylesheet
  - Inline styles
  - More specific selectors.

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6 The Anatomy of CSS syntax

CSS rules follow a set pattern

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

→ Selector:
Selects which HTML element(s) to style

→ Property
Aspect of styling color, font-style or margin

→ Value
what the property is set to "red", 24px ; 10px

7 Css Selectors (Targetting Elements)

Selectors determine which part of the HTML the styles apply to

- Element selector:
  Targets HTML tags directly.

```
p {
    color : purple;
}
```

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- Class selector:
Targets elements with a class (prefixed with .);

```
.highlighter {
    background : yellow;
}
```

- Combining selectors
You can target multiple selectors at once.

```
h1, h2, p {
    font-family : Arial;
}
```

8 Classes Vs IDs

→ Class (.)

- Can be used on many elements

```
<p class = "important">...</p>

.important { font-weight : bold; }
```

→ Id (#)

Must be unique per page

welcome

#main-title { font-size: 48px; }

* when to use what

- Class → reusable styles for multiple elements
- ID → unique styling when a single element must be targeted.

⇒ Big pictures - Css Rules & style priorities.

Specificity Hierarchy

More specific selectors override less specific ones.

1. Inline style (most specific)
2. ID selectors
3. Class, attributes selectors.
4. Elements selectors (least specific)

So!

```
#title { color: red; }
.title { color: blue; }
```

→ title will be red due to higher specificity

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* Summary of key Concepts

Concepts	Purpose
Inline Css	Quick one-off style
Internal Css	Style within a page
External Css	Best practices for reusable & scalable styles.
selectors	Target elements to apply styles
Class	Reusable style rule
ID	Unique style rule
Debugging	fix & verify CSS behavior

Next steps

1. Build a small HTML Page
2. Styles heading, paragraphs, & lists with:
   - inline styles
   - Internal Styles
   - External Stylesheet
3. Practice applying classes Vs. IDs
4. Use Dev tools to experiment with selectors & properties