SRC: INTRO TO WEB DEVELOPMENT

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Frontend vs Backend Development

Working with how website looks, how can we interact with it.

UI/UX, appearance

How the site works, interaction of website with server.

Saving submitted form data on server side

What's the Difference?

HTML
Hypertext Markup Language

Create the structure
· Controls the layout of the content
· Provides structure for the web page design
· The fundamental building block of any web page

CSS
Cascading Style Sheet

Stylize the website
· Applies style to the web page elements
· Targets various screen sizes to make web pages responsive
· Primarily handles the "look and feel" of a web page

Javascript

Increase interactivity
· Adds interactivity to a web page
· Handles complex functions and features
· Programmatic code which enhances functionality

CSS : Casacading Style Sheet

1. You can add CSS to your webpage by:-

- Making a separate CSS file and linking it to the HTML file, or
- Adding CSS content using the style attribute/tag.

```
<link rel="stylesheet" type="text/css"
 href="./index.css">
```

```
<h1 style="font-weight: bold; font-size: 42px;">
  I will be bold and 42 pixels!
</h1>

<p style="color: blue;">I will be blue!</p>
```

2. If you wish to add some style/effect to a certain element in the HTML file, you need to tag that element before applying changes to it.

There are different ways to tag an element like:
- Using Universal Selector. {Not used commonly}(*)
- Using element selector. For eg:- button, img, h1 etc.
- Using id and class tags.(#id {...}, .class {....})

3. Order of specificity: Inline styles>ID>class>element.

CSS Selector

① Element

```
div{
    height: ;
    background-color: ;
}
```

③ ID

```
#element-id{
    height: ;
    background-color: ;
}
```

② Class

```
.element-class{
    height: ;
    background-color: ;
}
```

④ Inline Style

```
<h1 style="font-weight: bold; font-size: 42px;">
    I will be bold and 42 pixels!
</h1>

<p style="color: blue;">I will be blue!</p>
```

SELECTORS
CASCADE
SPECIFICITY
INHERITANCE
IMPORT
ATTRIBUTE SELECTORS
PSEUDO-CLASSES
PSEUDO-ELEMENTS
COLORS
UNITS
URL
CALC
Z-INDEX
CSS GRID
FLEXBOX

BACKGROUNDS
COMMENTS
CUSTOM PROPERTIES
FONTS
TYPOGRAPHY
BOX MODEL
BORDER
PADDING
MARGIN
BOX SIZING
DISPLAY
POSITIONING
FLOATING AND CLEARING
TABLES

CENTERING
LISTS
MEDIA QUERIES AND
RESPONSIVE DESIGN
FEATURE QUERIES
FILTERS
TRANSFORMS
TRANSITIONS
ANIMATIONS
NORMALIZING CSS
ERROR HANDLING
VENDOR PREFIXES
CSS FOR PRINT
WRAPPING UP

CSS

TailwindCSS

Flex

Codepen