Skill academy

Syntax and Selectors in CSS

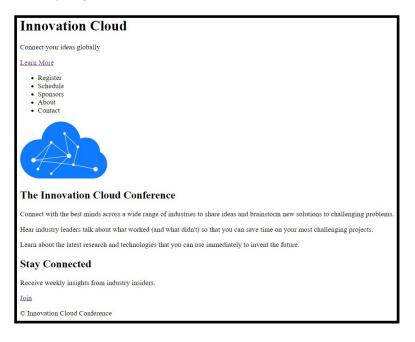
Syntax and Selectors in CSS

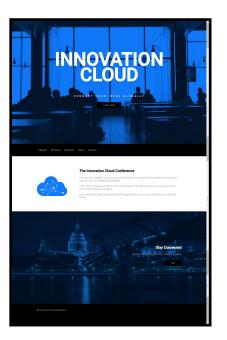
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- HTML is the fundamental structure of every web page, but it is unattractive without any color/text/structure differentiation.
- CSS can be used to style the HTML content on a web page.
- Modifying colors, font types, font sizes, images, element positioning, and more can be done with help of CSS.



Web page with and without CSS:





- There are three ways to include styles in CSS.
 - o Inline CSS.
 - Internal CSS.
 - External CSS.
- The syntax will be the same for internal and external CSS.
- But it will be different for Inline CSS.

In the internal / external CSS styles can be applied to HTML elements / id of the elements / class of the elements.

```
p {
    color: blue;
}

declaration block

p {
    color: blue;
}
```

```
p {
    color: blue;
}

property
p {
    color: blue;
}
```

```
p {
    color: blue;
}
```

In the inline CSS the styles will be applied to the elements along the open tag of the element with help of the style attribute.

```
opening tag

Hello World!
attribute

Hello World!
```

```
color: blue;'>Hello World!
property
Hello World!
property
Hello World!
```



- Internal styles can be used to style HTML but are also not best practice.
- An external stylesheet separates CSS code from HTML, by using the ".css".file extension.
- External stylesheets are the best approach when it comes to using HTML and CSS.
- External stylesheets are linked to HTML using the k > element.

- The style can be applied to HTML elements by using their tag name (h1/h6/p), id's and class names.
- Declarations are a fundamental part of CSS because they apply a style to a selected element.
- A selector is used to target the specific HTML element(s) to be styled by the declaration.

CSS Selectors - Type Selector

- Styles are applied to Tag name of the HTML element **Type selector/ Element** selector.
- Example:

```
p {
  color: blue; /* text color */
  text-align: center; /* text alignment */
  background-color: pink; /* adding
  background-color to the paragraph */
}
```

• The type selector will be applied to all the elements of the given type. The above style is applied to all elements in the HTML document.

- Style will be applied to all the elements on the page * is used to specify the universal selector.
- Example:

```
* {
    border: 1px solid red;
}
```

• The red color border will be applied to all the elements of the HTML document.

- HTML elements have class attributes, which is the most common way to select an element.
- Same class name can be used to multiple elements so the styles can be reused.
- To select a class name in the CSS. has to be prepend with the class name.

```
<h1 class="color">Styles</h1>
This code will make you understand about class selectors
```





This code will make you understand about class selectors

Same class name can be used to multiple elements, similarly multiple class names can be given to the same element.

```
<h1 class="color">Styles</h1>
This code will make you understand about class selectors
```

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

Styles

This code will make you understand about class selectors

- Id of the element is unique, similarly when unique styles have to be applied to the elements Id selectors are used.
- To select an id of an HTML element in the CSS # has to be prepend with the id of the element.

```
<h1 class="color" id="header-font">Styles</h1>
This code will make you understand about class
selectors
```

```
#header-font{
  font-family: cursive;
}
```

Styles

This code will make you understand about class selectors

By using this attribute selector we can add styles to the element that has the attribute with specified value.



To change the appearance of certain elements, in different states pseudo class method is used.

```
<a href="#">Learn more</a>
```

```
a:hover{
    color: □orange;
}
```

Learn more

Learn more

CSS supports absolute units(inches, cm, points) and relative units(%, em). The following table describes some important units involved in CSS with examples.

Unit	Description	Example
%	Defines a measurement as a percentage relative to another value, typically an enclosing element.	p {font-size: 16pt; line-height: 125%;}
cm	Defines a measurement in centimeters.	div {margin-bottom: 2cm;}

Unit	Description	Example
em	A relative measurement for the height of a font in em spaces. Because an em unit is equivalent to the size of a given font, if you assign a font to 12pt, each "em" unit would be 12pt; thus, 2em would be 24pt.	p {letter-spacing: 7em;}
ex	This value defines a measurement relative to a font's x-height. The x-height is determined by the height of the font's lowercase letter x.	p {font-size: 24pt; line-height: 3ex;}
in	Defines a measurement in inches.	p {word-spacing: .15in;}

Unit	Description	Example
mm	Defines a measurement in millimeters.	p {word-spacing: 15mm;}
рс	Defines a measurement in picas. A pica is equivalent to 12 points; thus, there are 6 picas per inch.	p {font-size: 20pc;}
pt	Defines a measurement in points. A point is defined as 1/72nd of an inch.	body {font-size: 18pt;}
рх	Defines a measurement in screen pixels.	p {padding: 25px;}