**CSS**

Cascading Style Sheets is used for giving design to the webpage or changing the layout.

CSS is a language that describes the style of an HTML document.

Style sheets enable you to build consistent, transportable, and well-defined style templates.

**Advantages of using CSS**

* **CSS saves time** − You can write CSS once and then **reuse** same sheet in multiple HTML pages. You can define a style for each HTML element and apply it to as many Web pages as you want.
* **Pages load faster** − If you are using CSS, you do not need to write HTML tag attributes every time. Just write one CSS rule of a tag and apply it to all.
* **Easy maintenance** − To make a global change, simply change the style, and all elements in all the web pages will be updated automatically.
* **Multiple Device Compatibility**
* **Global web standards** − Now HTML attributes are being deprecated and it is being recommended to use CSS. So its a good idea to start using CSS in all the HTML pages to make them compatible to future browsers.
* **Offline Browsing** − CSS can store web applications locally with the help of an offline cache. Using of this, we can view offline websites. The cache also ensures faster loading and better overall performance of the website.
* **Platform Independence** − The Script offer consistent platform independence and can support latest browsers as well.

**Type selector**

For selecting any element

universal selector “\*{ }”

Descendant Selector

Suppose you want to apply a style rule to a particular element only when it lies inside a particular element.

Can you make a class selector particular to an element type?

h1.black {

color: #000000;

}

What is a child selector?

body > p {

color: #000000;

}

This rule will render all the paragraphs in black if they are direct child of <body> element.

**What is an attribute selector?**

You can also apply styles to HTML elements with particular attributes.

input[type = "text"]{

color: #000000;

}

How to select all paragraph elements with a lang attribute?

p[lang] : Selects all paragraph elements with a lang attribute.

How to select all paragraph elements whose lang attribute has a value of exactly "fr"?

p[lang="fr"]

How to select all paragraph elements whose lang attribute contains values that are exactly "en", or begin with "en-"?

p[lang|="en"]

What is the purpose of em measurement unit?

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.

What is the purpose of pt measurement unit?

pt − Defines a measurement in points. A point is defined as 1/72nd of an inch.

What are browser safe colors?

There is the list of 216 colors which are supposed to be most safe and computer independent colors. These colors vary from hexa code 000000 to FFFFFF. These colors are safe to use because they ensure that all computers would display the colors correctly when running a 256 color palette.

Which property is used to control the scrolling of an image in the background?

The background-attachment

Which property is used to change the face of a font?

The font-family

Which property is used to create a small-caps effect?

The font-variant property is used to create a small-caps effect.

The font-style property is used to make a font italic or oblique.

Which property is used to set the color of a text?

The color property is used to set the color of a text.

Which property is used to set the text direction?

The direction property is used to set the text direction.

Which property is used to indent the text of a paragraph?

The text-indent

Which property is used to capitalize text or convert text to uppercase or lowercase letters?

The text-transform

Which property is used to control the flow and formatting of text?

The white-space

Which property of a hyperlink signifies unvisited hyperlinks?

The :link signifies unvisited hyperlinks.

Which property of a hyperlink signifies visited hyperlinks?

The :visited signifies visited hyperlinks.

Which property of a hyperlink signifies an element on which the user is currently clicking?

The :active

Which property of a table specifies whether the browser should control the appearance of the adjacent borders?

The border-collapse specifies whether the browser should control the appearance of the adjacent borders that touch each other or whether each cell should maintain its style.

Which property of a table specifies the width that should appear between table cells?

The border-spacing specifies the width that should appear between table cells.

Which property of a table specifies whether the border should be shown if a cell is empty?

The empty-cells

Which property allows you to control the shape or appearance of the marker of a list?

The list-style-type

Which property specifies whether a long point that wraps to a second line should align with the first line or start underneath the start of the marker of a list?

The list-style-position specifies

Which property specifies an image rather than a bullet point or number for the marker of a list?

The list-style-image

Which value of cursor property changes the cursor based on context area it is over?

auto

Can you set an image to be shown as cursor?

Yes! set the url as the source of a cursor image file.

**What is a sprite? How is it applied using CSS? What is the benefit?**

- A image sprite is a collection of images put into one single image.

- Using css positioning you can show and hide different parts of the sprite depending on what you need.

**What is the purpose of the z-index**

The z-index helps specify the stack order of positioned elements that may overlap one another. The z-index default value is zero, and can take on either a positive or negative number.

**disadvantages of External Style Sheets**

* The disadvantages are that it may affect loading time in some situations. It may also not be practical if there are not enough styling conditions to justify an external sheet.

**What is a Box Model?**

Every Element on a Page is a Rectangular Box and may have Width, Height, Padding, Borders, and Margins. Every section of the box model relates to a CSS property: width, height, padding, border, and margin.

**What are Pseudo-classes?**

( <https://www.w3schools.com/css/css_pseudo_classes.asp>)

A pseudo-class is used to define a special state of an element.

selector:pseudo-class {  
    property:value;  
}

**z-index:**

The z-index property specifies the stack order of an element. An element with greater stack order is always in front of an element with a lower stack order.

**Enlist Disadvantages of External Style Sheets:**  
1. It requires more data to download to import style information for each HTML document from a relative .CSS file.  
2. Rendering an HTML document is not possible if the Style Sheet is not loaded properly.  
3. For a small quantity of Style Definitions within a Single Page, it is not recommended to use an external CSS file.

**Explain Image Sprites in CSS.**  
When multiple images or a set of images is combined into a single image, it is known as an Image Sprite. It is better to use Sprite Images as loading every image on a Web page takes time and this reduces the page load time