

CSS

CSS : Cascading Styling Sheets that styles the web content. It is mark up language or style sheet language.

Selectors:

Universal(*) : Selects all elements. | **Class** : By selecting class starts with dot operator. | **Id** : By selecting ID starts with '#' symbol. **Attribute** : Property of a tag access with type[attribute]{..} in style sheet. | **Pseudo-class** : selectors in actions(:hover, :visited, :active, :disabled, :focus). | **Tag** : select a tag with an element name. | **Specificity** : Order of selecting styles by the browser (ID>Class>Tag). | **Chaining** : Combining multiple selectors (type.classname). | **Descendent Combinator** : Selecting elements that are nested within Other Html elements.

Visual Rules:

Font-family : Change the text style. | **font-size** : Change the size of text. | **font-weight** : Change the text into bold, italic, normal. **Text-align** : Align the text into center, left, right. | **color** : Change the color of the text. | **background-color** : Change the background color of text. | **Opacity** : To make elements fade into other for a nice overlay effect. | **text-transform** : To change the text into upper, lower. | **line-height** : To change the space between the lines of text. | **letter-spacing** : To change the space between the letters. | **word-spacing** : To change the space between the words of text. | **background-image** : To change the background of an element with image. | **important** : Important can be applied to specific declaration. It will override any style no matter how specific it is.

The Box Model :

height and width : Dimensions of content. | **border** : Box surrounding the content area & padding(width, color, style). | **border-radius** : Change the radius of the border(px,%). | **padding** : Space between inside of border and around the content. | **margin** : Space between outside of border and other elements. | **min-height & max-height** : height of the box model. | **min-width & max-width** : width of the box model. | **overflow** : Controls the content that spills or overflow outside of its box (hidden, scroll, visible). | **visibility** : elements can be hidden from view with the visibility property.

Display and Positioning:

position : static, relative, absolute, fixed, sticky. | **relative** : This has some offset properties(top, bottom, right, left) that will move a way from its default static position. | **absolute** : Setting into it then other elements ignore this element & act like it is not present on the page. | **fixed** : Element is fixed even page is scrolling. | **sticky** : Element sticks into specific position when user scrolls. | **z-index** : Controls the elements how far back and forward when elements are overlapped. | **inline-display** : Elements are placed in same line. | **block-display** : Elements are placed in each line like blocks. | **inline-block** : Elements are placed in same line in the form of blocks. | **float** : This is used for wrapping text around an image (left & right). | **clear** : Specifies how elements should behave when they bump into each other on each page (left, right, both, none).

Colors :

Foreground : color property used. | **Background** : background-color property used. | **Hexadecimal** : colors with hexadecimal code (#FFFFFF). | **RGB** : rgb(red, green, blue) range 0-255. | **Hue, Saturation, Lightness** : hue(120,60%70%). | **opacity and alpha** : This is for transparency -> hsla(34,100%50%,0.1) last value is opacity, range from 0 to 1 % rgba(r, g, b, a).

Flex box : It's a more efficient way to layout, align and distribute space among items in a container.

Container Properties :

display : set the value as flex then it create a flex container. | **flex-direction** : Specifies how items are placed in the flex container, defining main-axis and its direction. | **flex-wrap** : Specifies whether items are forced into a single liner or can be wrapped into multiple lines. | **justify-content** : defines how space is distributed between items in flex container along the main-axis. | **align-items** : Defines how space is distributed between items in flex container along the cross-axis. | **align-content** : Defines how space is distributed between rows in flex container along the cross-axis.

Flex Item Properties :

align-self : Allows you to override align-items on individual flex items. | **flex-basis** : Specifies the ideal size of a flex item before it's placed into a flex container. | **flex-grow** : Dictates how the unused space should be spread amongst flex items. | **flex-shrink** : Dictates how items should shrink when there isn't enough space in container. | **order** : Specifies the order used to layout items in flex container.