**CSS Cheat Sheet**

**A. What is CSS ?**

* Cascading Style Sheets (CSS) is a style sheet language used to describe the presentation of a document written in HTML or XML.
* CSS provides a way to style HTML elements and create visually appealing web pages. CSS is widely used in web development and

is a key tool for creating responsive and dynamic web pages.

**B. Basic Syntax**

|  |  |
| --- | --- |
| CSS Selector | Description |
| \* | Selects all elements |
| element | Selects all elements of a specific type |
| .class | Selects all elements with a specific class |
| #id | Selects the element with a specific ID |
| selector1, selector2 | Selects all elements that match either selector1 or selector2 |
| selector1 selector2 | Selects all elements that match selector2 and are descendants of elements that match selector1 |
| selector1 > selector2 | Selects all elements that match selector2 and are direct children of elements that match selector1 |
| selector1 + selector2 | Selects the element that immediately follows selector1 and matches selector2 |
| selector1 ~ selector2 | Selects all elements that follow selector1 and match selector2 |

**C. CSS Style :-**

**1. Selectors**

* Universal Selector \* {}
* Type Selector h1, h2 ,h3 {}
* Child Selector ul > li {}
* Descendant Selector p a {}
* Class Selector .class {}
* ID Selector #id {}
* Adjacent Sibling Selector h1 + p {}
* General Sibling Selector h1 ~ p {}
* Attribute Selector [attribute="SomeValue"] {}

**2. Selectors & Elements**

* Mouse Over Selector a:hover {}
* Active Link Selector a:active {}
* Focus Selector input:focus {}
* Visited Links Selector a:visited {}
* Link Selector .class:link {}
* First Line Selector p::first-line {}
* First Letter Selector p::first-letter {}
* First Child Selector p:first-child {}
* Last Child Selector p:last-child {}
* Only Child Selector p:only-child {}
* :nth-child Selector p:nth-child() {}
* First Element of its Parent Selector p:first-of-type {}
* Checked elements selector input:checked {}
* Disabled elements selector input:disabled {}
* Enabled elements selector input:enabled {}
* Elements that have no Children Selector (including text nodes) p:empty {}
* Not a Specified Element Selector :not(p) {}
* Before Element .class::before {}
* After Element .class::before {}

**3. Text Styling**

**meaning of style :-**

|  |  |
| --- | --- |
| Property | Description |
| color: | Sets the color of text |
| font-size: | Sets the size of text |
| font-weight: | Sets the weight of text (e.g. bold) |
| font-style: | Sets the style of text (e.g. italic) |
| text-align: | Sets the alignment of text |
| text-decoration: | Sets the decoration of text (e.g. underline) |
| text-transform: | Sets the case of text (e.g. uppercase) |
| line-height: | Sets the height of a line of text |
| letter-spacing: | Sets the spacing between letters |
| word-spacing: | Sets the spacing between words |
| white-space: | Sets how white space is handled |
| text-shadow: | Adds a shadow to text |

**using of style :-**

* Font style font-style: normal | italic | oblique
* Font Variant font-variant: normal | small-caps
* Font Weight font-weight: normal | bold | bolder | lighter | 100 - 900
* Vertical Alignment vertical-align: baseline | 10px | sub | super | top | text-top | middle | bottom | text-bottom | initial
* Font Size font-size: 12px | 0.8em | 80%
* Text Transform text-transform: capitalise | lowercase | uppercase
* Space Between Characters letter-spacing: normal | 4px
* Line Height line-height: normal | 3em | 34%
* Horizontal Alignment text-align: left | right | center | justify
* Text Align Last text-align-last: auto | left | right | center | justify | start | end | initial | inherit
* Text Decoration text-decoration: none | underline | overline | line- through
* Indent First Line text-indent: 25px
* Font Family font-family: 'Open Sans', sans-serif
* Text Justify text-justify: auto | inter-word | inter-character | none | initial |inherit
* Text Overflow text-overflow: clip | ellipsis | string | initial | inherit
* Text Shadow text-shadow: h-shadow v-shadow blur-radius color | none | initial | inherit

**4. Position**

**meaning of style:-**

|  |  |
| --- | --- |
| Property | Description |
| position | Specifies the type of positioning used for an element |
| top | Sets the distance between the top edge of an element and the top edge of its containing element |
| bottom. | Sets the distance between the bottom edge of an element and the bottom edge of its containing element |
| left | Sets the distance between the left edge of an element and the left edge of its containing element |
| right | Sets the distance between the right edge of an element and the right edge of its containing element |
| z-index | Sets the stacking order of elements |
| float | Specifies whether or not an element should float |
| clear | Specifies which sides of an element other floating elements are not allowed |
| Position position: | static | relative | absolute | fixed | sticky |

**using of style:-**

* Position Properties top | right | bottom | left
* Float Element float: left | right | none
* Clear Floating Elements clear: none | left | right | both
* Z Index z-index: 3 | auto | inherit

**5. Background**

**meaning of style:-**

|  |  |
| --- | --- |
| Property | Description |
| background-color | Sets the color of an element’s background |
| background-image | Sets an image as an element’s background |
| background-repeat | Sets how an element’s background image is repeated |
| background-position | Sets the position of an element’s background image |
| background-size | Sets the size of an element’s background image |
| Background attachment | Sets whether an element’s background image scrolls with the page or is fixed |

**using of style:-**

* Background Image background-image: url()
* Background Repeat background-repeat: repeat-x | repeat-y | repeat | space | round | no-repeat
* Background Color background-color: #2AA9E0
* Background Position background-position: top | right | bottom | left | center
* Background Attachment background-attachment: scroll | fixed | local | initial | inherit

**6. Box properties**

**meaning of style :-**

|  |  |
| --- | --- |
| Property | Description |
| width | Sets the width of an element |
| height | Sets the height of an element |
| margin | Sets the margin of an element |
| margin-top | Sets the top margin of an element |
| margin-right | Sets the right margin of an element |
| margin-bottom | Sets the bottom margin of an element |
| margin-left | Sets the left margin of an element |
| padding | Sets the padding of an element |
| padding-top | Sets the top padding of an element |
| padding-right | Sets the right padding of an element |
| padding-bottom | Sets the bottom padding of an element |
| padding-left | Sets the left padding of an element |
| border | Sets the border of an element |
| border-top | Sets the top border of an element |
| border-right | Sets the right border of an element |
| border-bottom | Sets the bottom border of an element |
| border-left | Sets the left border of an element |
| border-width | Sets the width of a border |
| border-style | Sets the style of a border |
| border-color | Sets the color of a border |
| border-radius | Sets the radius of a border |
| box-sizing | Sets the box model for an element |
| overflow | Sets how content that overflows an element is handled |
| display | Sets the display style of an element |
| visibility | Sets the visibility of an element |

**using of style :-**

* Box Sizing box-sizing: border-box | content-box
* Margin margin: 2px 4px 6px 8px | 0 auto
* Padding padding: 2px 4px 6px 8px
* Border Color border-color: #2AA9E0
* Border Style border-style: none | hidden | dotted | dashed | solid | double | groove | ridge | inset | outset
* Border Width border-width: 10px

**7. List Styling**

* List Type list-style-type: disc | circle | square | none
* List Position list-style-position: inside | outside
* List Image list-style-image: url()

**8. Flexbox**

**meaning of style:-**

|  |  |
| --- | --- |
| **Property** | **Description** |
| display: flex | Sets an element as a flex container |
| flex-direction | Sets the direction of the flex container |
| justify-content | Sets the alignment of flex items along the main axis |
| align-items | Sets the alignment of flex items along the cross axis |
| flex-wrap | Sets whether flex items should wrap |
| align-content | Sets the alignment of flex lines along the cross axis |
| flex | Sets the flexible size of a flex item |
| order | Sets the order of a flex item |
| align-self | Sets the alignment of a single flex item along the cross axis |

**using of style:-**

* display:flex
* Flex Direction flex-direction: row | row-reverse | column | column-reverse
* Flex Wrap flex-wrap: nowrap | wrap | wrap-reverse
* Justify Content justify-content: flex-start | flex-end | center | space-between | space-around | space-evenly
* Align Items align-items: flex-start | flex-end | center | baseline | stretch
* Align Content align-content: flex-start | flex-end | center | space-between | space-around | stretch
* Order order: 0
* Flex Grow flex-grow: 0
* Flex Shrink flex-shrink: 1
* Flex Basis flex-basis: 3px | auto
* Align Self align-self: auto | flex-start | flex-end | center | baseline | stretch

**9. CSS Grid**

**meaning of style :-**

|  |  |
| --- | --- |
| Property | Description |
| display: grid | Sets an element as a grid container |
| grid-template-columns | Sets the width of each column in the grid |
| grid-template-rows | Sets the height of each row in the grid |
| grid-template-areas | Sets the position of grid items using named grid areas |
| grid-column-gap | Sets the gap between columns in the grid |
| grid-row-gap | Sets the gap between rows in the grid |
| grid-gap | Sets the gap between rows and columns in the grid |
| grid-auto-columns | Sets the width of columns that aren’t explicitly sized in the grid |
| grid-auto-rows | Sets the height of rows that aren’t explicitly sized in the grid |
| grid-auto-flow | Sets the flow of grid items that aren’t explicitly placed in the grid |
| grid-row-start | Sets the starting row position of a grid item |
| grid-row-end | Sets the ending row position of a grid item |
| grid-column-start | Sets the starting column position of a grid item |
| grid-column-end | Sets the ending column position of a grid item |
| grid-area | Sets the grid item’s position using the grid-row-start, grid-row-end, grid-column-start, and grid-column-end properties |

**using of style:-**

* display: grid
* Grid Template Columns grid-template-columns: 40px 50px auto 50px 40px
* Grid Template Rows grid-template-rows: 25% 100px auto
* Grid Template Areas grid-template-areas: "a b c" | none
* Grid Template grid-template: "a a a" 20% "b b b" auto | 100px 1fr / 50px 1fr
* Grid Column Gap grid-column-gap: 10px
* Grid Row Gap grid-row-gap: 10px
* Justify Items justify-items: start | end | center | stretch
* Align Items align-items: start | end | center | stretch
* Justify Content justify-content: flex-start | flex-end | center | space-between | space-around | space-evenly
* Align Content align-content: flex-start | flex-end | center | space-between | space-around | stretch
* Grid Auto Columns grid-auto-columns: 100px | max-content | min-content
* Grid Auto Rows grid-auto-rows: 100px | max-content | min-content
* Grid Auto Flow grid-auto-flow: row | column | row dense | column dense
* Grid Column Start grid-column-start: 2 | areaname | span 2 | span areaname | auto
* Grid Column End grid-column-end: 2 | areaname | span 2 | span areaname | auto
* Grid Row Start grid-row-start: 2 | areaname | span 2 | span areaname | auto
* Grid Row End grid-row-end: 2 | areaname | span 2 | span areaname | auto
* Grid Column grid-column: 3 / span 2
* Grid Row grid-row: 3 / span 2
* Justify Self justify-self: start | end | center | stretch
* Align Self align-self: start | end | center | stretch

**10. Dynamic Content**

* CSS Variable --variable-name: value
* Variable Usage var(--variable-name)
* Counter Reset counter-reset: name-of-counter
* Counter Increment counter-increment: name-of-counter
* Counter Dynamic Value content: counter(name-of-counter)
* Attribute Dynamic Value content: attr(name-of-attribute)

**11. Transform Properties**

|  |  |
| --- | --- |
| Property | Description |
| transform | Applies a 2D or 3D transformation to an element |
| transform-origin | Sets the origin point of a transformation |
| rotate | Rotates an element around a fixed point |
| scale | Increases or decreases the size of an element |
| translate | Moves an element along the horizontal and/or vertical axis |
| skew | Skews an element along the horizontal and/or vertical axis |

**12. Pseudo-class and Pseudo-element Properties**

|  |  |
| --- | --- |
| **Property** | **Description** |
| :active | Sets the styles for an element when it is being activated |
| :hover | Sets the styles for an element when it is being hovered |
| :focus | Sets the styles for an element when it has focus |
| :visited | Sets the styles for a visited link |
| :before | Inserts content before the content of an element |
| :after | Inserts content after the content of an element |

**13. Responsive Design Properties**

|  |  |
| --- | --- |
| Property | Description |
| @media | Sets styles for different screen sizes |
| max-width | Sets the maximum width of an element |
| min-width | Sets the minimum width of an element |
| width | Sets the width of an element |
| height | Sets the height of an element |
| max-height | Sets the maximum height of an element |
| min-height | Sets the minimum height of an element |
| viewport units | Sets sizes relative to the viewport |

**14. Animation and Transition Properties**

|  |  |
| --- | --- |
| Property | Description |
| animation-name | Sets the name of an animation |
| animation-duration | Sets the length of an animation |
| animation-timing-function | Sets the timing of an animation |
| animation-delay | Sets the delay before an animation starts |
| animation-iteration-count | Sets the number of times an animation should repeat |
| animation-direction | Sets the direction of an animation |
| animation-fill-mode | Sets what styles are applied to an element before and after an animation |
| animation-play-state | Sets whether an animation is running or paused |
| transition-property | Sets the CSS property to which a transition should be applied |
| transition-duration | Sets the length of a transition |
| transition-timing-function | Sets the timing of a transition |
| transition-delay | Sets the delay before a transition starts |