Lesson:

More on CSS function







List of Concepts Involved:

- · Introduction to CSS function
- attr()
- calc()
- max()
- min()
- var()

Introduction to CSS function

CSS functions are statements that invoke special data processing or calculations to return a CSS value for a CSS property. CSS value function represents more complex data types and they make take some input arguments to calculate the return value.

attr()

attr() function is a function that is used to retrieve the value of an attribute from an HTML element and use it as a property value within the CSS styling.

Syntax of attr() function

```
Unset property: attr(attribute_name)
```

Example of attr() function

index.html

style.css

```
Unset
p::after {
      content: attr(blood-group);
      color: red;
    }
/* This will result, any  element with a "blood-group" attribute to display its value in red text after the paragraph's original content.*/
```

Browser output

My Blood Group is A+



calc()

call() CSS function is a function that You can utilize to execute calculations while defining values for CSS properties.

Syntax of cal() function

```
Unset property: calc(expression)
```

The expression can be any simple expression combining the following operators, using standard operator precedence rules:

- + Addition.
- - Subtraction.
- * Multiplication
- / Division

Example of cal() function in CSS

```
Unset

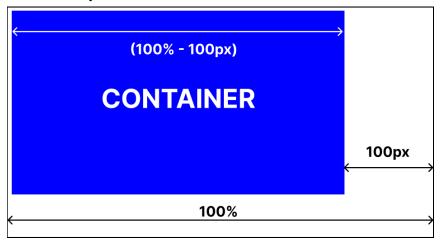
<style>
    #container {
        width: calc(100% - 100px);
        height: 50vh;
        background-color: blue;
    }

</style>
<body>
    <div id="container"></div>
</body>
```

In the above example, we have set the width of the container by calculating using the cal() function as follows, width = calc(100% - 100px)

It means, the final width will be the total width available - 100px

Browser output:-





max()

The max() function in CSS is a function that can be used to set the largest value from a list of commaseparated expressions as the value of a CSS property value.

Syntax of max() function in CSS

```
Unset properties: max(value1, value2)
```

Example max() function in CSS

index.html

Example max() function in CSS

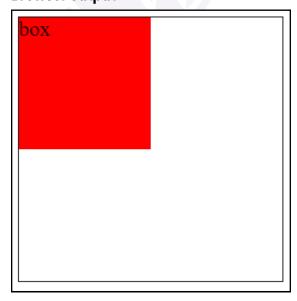
index.html

```
Unset
.container {
    width: 200px;
    height: 200px;
    border: 1px solid;
}

div {
    background: red;
    height: 100px;
    width: max(50%, 100px);
}

/* In this example, the width of the div element will be always of maximum with 50% or 100px of width with respect to the parent container */
```

Browser output -





min()

The min() function in CSS is a function that can be used to set the smallest value from a list of commaseparated expressions as the value of a CSS property value.

Syntax of min() function in CSS

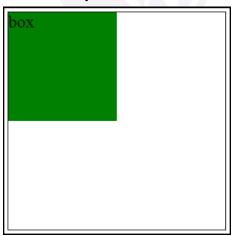
```
Unset properties: min(value1, value2)
```

Example of min() CSS function

index.html

Style.css

Browser output -



Note - both the **max()** and **min()** function in CSS behaviour can be understood more by resizing the browser output screen



var()

The var() function in CSS is a function that is used to define and use custom CSS variables, also known as CSS custom properties, CSS variables allow us to store and reuse values throughout the stylesheet, making it easier to maintain and update styles throughout the project.

Syntax of var() function in CSS

```
Unset
// firstly var CSS properties value declaration in the root
i.e
:root {
    --variable-name: CSS properties;
}
// use the custom CSS properties with the var() function
i.e
selector {
    CSS properties: var(--variable-name)
}
```

Example of var() function in CSS

index.html

style.css

```
Unset
:root {
    --red: #b00;
    --blue: #4679bd;
    --grey: #ddd;
}
.container {
    color: var(--red);
    background: var(--grey);
    border: 1px solid var(--red);
}
```

Browser output -

Custom properties Demo