

css basic functions

1. Color Functions

rgb() and **rgba()**: Specify colors using red, green, and blue values, with optional alpha for transparency.

```
color: rgb(255, 0, 0);      /* Red color
*/
color: rgba(255, 0, 0, 0.5); /* Red with
50% opacity */
hsl() and hsla(): Define colors using
hue, saturation, and lightness, with
optional alpha.
```

```
color: hsl(120, 100%, 50%); /* Bright
green */
color: hsla(120, 100%, 50%, 0.3); /*
Bright green with 30% opacity */
```

2. Math Functions

`calc()`: Perform basic calculations for dynamic sizes, margins, or positions.

```
width: calc(100% - 50px); /* Width that
subtracts 50px from 100% */
margin-top: calc(1rem + 10px);
```

`min()`, `max()`, and `clamp()`:

`min()`: Chooses the smallest value.

`max()`: Chooses the largest value.

`clamp()`: Sets a value with a minimum and maximum range.

```
width: min(100%, 500px); /* Max width of
500px, but not more than 100% */
font-size: clamp(1rem, 2vw, 2rem); /*
Responsive font size between 1rem and 2rem
*/
```

3. String Functions

`attr()`: Inserts attribute values directly into CSS, mainly for content.

```
content: attr(data-label); /* Useful for  
custom data attributes */
```

4. Shape Functions

circle(), ellipse(), polygon(): Used with clip-path to create complex shapes.

```
clip-path: circle(50%); /* Circular  
clipping */  
clip-path: polygon(50% 0%, 100% 100%, 0%  
100%); /* Triangle shape */
```

5. Transform Functions

rotate(), scale(), translate(), skew(): Modify element position, size, and rotation.

```
transform: rotate(45deg);      /* Rotates
element by 45 degrees */
transform: scale(1.5);         /* Scales
element to 150% size */
transform: translate(10px, 20px); /* Moves
element 10px right and 20px down */
```

6. Gradient Functions

`linear-gradient()`, `radial-gradient()`, `conic-gradient()`: Create color gradients for backgrounds.

```
background: linear-gradient(to right, red,  
yellow);  
background: radial-gradient(circle, red,  
blue);  
background: conic-gradient(from 0deg, red,  
yellow, green);
```

7. Filter Functions

`blur()`, `brightness()`, `contrast()`, `grayscale()`, `hue-rotate()`, `invert()`, `opacity()`, `saturate()`, `sepia()`: Apply visual effects.

```
filter: blur(5px);           /* Blurs
the image by 5px */
filter: brightness(1.2);     /*
Increases brightness by 20% */
filter: grayscale(100%);     /*
Converts image to grayscale */
```

These functions are powerful tools in CSS that enable complex and dynamic styling, from adjusting colors and sizes to transforming and filtering elements.

AUNG THU OO

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Senior Developer Role

Bringing over 15 years of software industry experience, I use my full-stack skills to deliver scalable, user-friendly web and mobile applications that align with both user needs and business goals.



My Skills

- Next.js
- React.js
- Node.js
- Flutter
- Laravel

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