Lesson:

Filter





Topics Covered

- · What is a filter?
- · Syntax of filter
- · Common Filter functions
- · Combining multiple filters

What is a filter?

The CSS property called filter is used to apply various graphical effects such as colour shift or blur to an element. Typically, filters are employed to modify how images, backgrounds, and borders are displayed.

Syntax of filter

To apply filters, we use following syntax,

```
filter : <filter-function>
```

where, filter-functions are predefined functions used to apply various visual effects to elements on a web page.

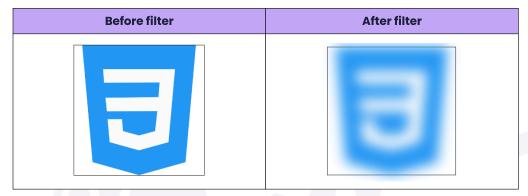
In this lecture, we will study some common filter effects through examples.

Common Filter functions

1. blur(): Applies a Gaussian blur to the input image

Syntax-

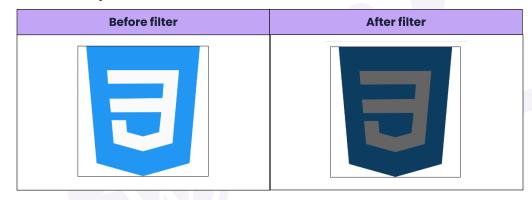
```
filter:blur(radius)
```



2. brightness(): Making the image appear brighter or darker.

Syntax-

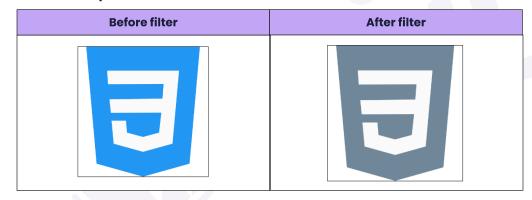
```
filter:brightness(amount)
```



3. grayscale(): Converts the input image to grayscale

Syntax-

```
filter:grayscale(amount)
```



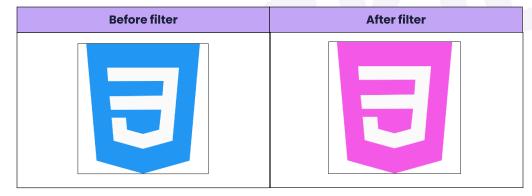
4. hue-rotate(): Rotates the hue of an element and its contents.

Syntax-

```
filter:hue-rotate(angle)
```

```
div {
    border: 1px solid black;
    width: 200px;
    height: 200px;
}

img {
    filter: hue-rotate(90deg);
}
</style>
</body>
</div>
</div>
</div>
</body>
</html>
```



5. drop-shadow(): Applies a drop shadow effect to the input image or text.

Syntax-

```
drop-shadow(offset-x offset-y blur-radius color)
```

Before filter	After filter
Filter is Easy	Filter is Easy Filter is Easy

Combining Multiple Filters

We can combine multiple filters, to give more visual effects.

Syntax-

```
filter: <filter-function-1> <filter-function-2>
```



If you have noticed, now there are two shadows, with two different colours.