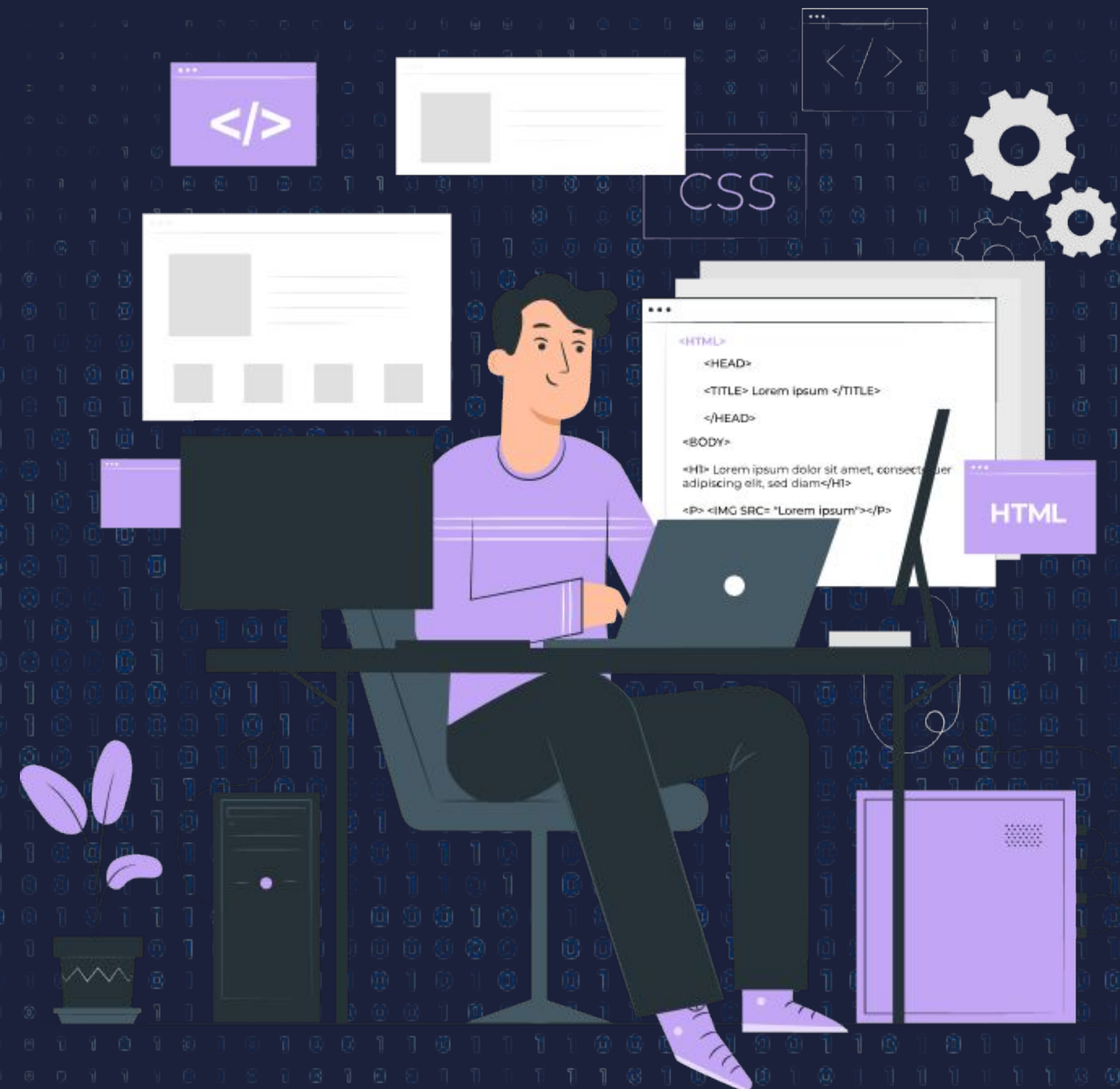




Filter





Topics Covered

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



What is a filter?

Apply various graphical effects such as colour shift or blur to an element





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.



Filter functions – Blur

Duration of the transition in seconds or milliseconds.

HTML

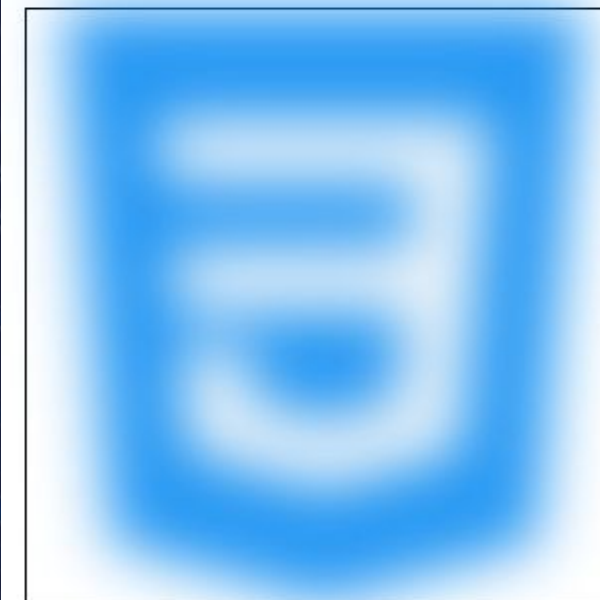
```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Filter</title>
  </head>
  <body>
    <div>
      
    </div>
  </body>
</html>
```

CSS

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

img {
  filter: blur(10px);
}
```

Output





Filter functions – Brightness

Duration of the transition in seconds or milliseconds.

HTML

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Filter</title>
  </head>
  <body>
    <div>
      
    </div>
  </body>
</html>
```

CSS

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

img {
  filter: brightness(0.4);
}
```

Output





Filter functions – Grayscale

Duration of the transition in seconds or milliseconds.

HTML

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Filter</title>
  </head>
  <body>
    <div>
      
    </div>
  </body>
</html>
```

CSS

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

img {
  filter: grayscale(0.8);
}
```

Output





Filter functions – Hue Rotate

Duration of the transition in seconds or milliseconds.

HTML

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Filter</title>
  </head>
  <body>
    <div>
      
    </div>
  </body>
</html>
```

CSS

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

img {
  filter: hue-rotate(90deg);
}
```

Output





Filter functions – Drop Shadow

Duration of the transition in seconds or milliseconds.

HTML

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Filter</title>
  </head>
  <body>
    <div>
      <h1>Filter is
Easy</h1>
    </div>
  </body>
</html>
```

CSS

```
h1 {
  color: rgb(71, 76, 167);
  filter: drop-shadow(30px 30px
0 rgb(103, 97, 97));
}
```

Output

Filter is Easy
Filter is Easy



Combining Multiple Filters

Duration of the transition in seconds or milliseconds.

HTML

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <title>Filter</title>
  </head>
  <body>
    <div>
      
    </div>
  </body>
</html>
```

CSS

```
img {
  filter: drop-shadow(30px 10px
2px #3fb1e2)
  hue-rotate(90deg)
  drop-shadow(30px 10px 2px
#3fb1e2);
}
```

Output





▶ THANK YOU ◀