# CSS Background

## Topics covered:
- What is CSS Background?
- What is Background-color?
- What is Background-image?
- What is Background-repeat?
- What is Background-attachment?
- What is Background-position?
- What is Background shorthand property?
- What is Background-size?

## Topics in Detail:

## CSS Background:

To add background effects to HTML elements background property is used. The background effect may be:

1. background-color
2. background-image
3. background-repeat
4. background-attachment
5. background-position

## Background-color:

- The property background-color is used to set the background color of an HTML element.
- Syntax: **background-color**: color name;
- Example: background-color: lightblue;
- The value can be any valid color names, color codes (Hex values/rgb values)
- The transparency of the background color can be adjusted using the **opacity** property.
- The value of opacity can vary from 0.0 to 1.0.
- The lower value will have more transparency.
- Code and Style:

```html
<div class="bgcolor">
  <h1>CSS Background Color</h1>
  <p>The property background-color is used to set the background color of an
  HTML element.</p>
</div>
```

```css
.bgcolor{
  background-color: pink;
  opacity: 0.5;
}
```

- Output:

**CSS Background Color**

The property background-color is used to set the background color of an HTML element.
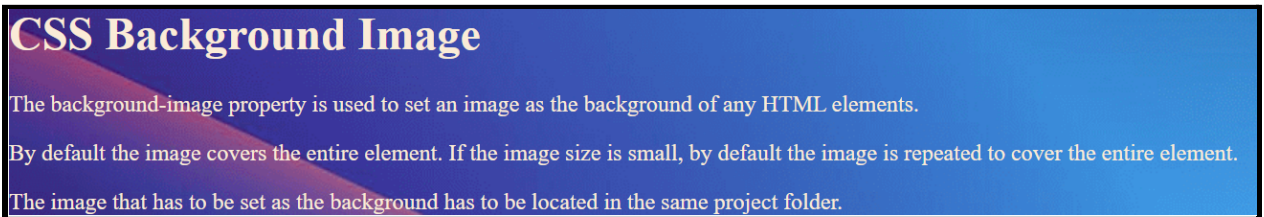
## Background-Image:

- The background-image property is used to set an image as the background of any HTML elements.
- By default the image covers the entire element. If the image size is small, by default the image is repeated to cover the entire element.
- The image that has to be set as the background has to be located in the same project folder.
- Syntax: background-image: url("image path");
- Code:

```html
<div class="bgimage">
  <h1>CSS Background Image</h1>
  <p>The background-image property is used to set an image as the background of any HTML elements.</p>
  <p>By default the image covers the entire element. If the image size is small, by default the image is
  repeated to cover the entire element.</p>
  <p>The image that has to be set as the background has to be located in the same project folder.</p>
</div>
```

- Style:

```css
.bgimage{
  background-image: url("image.png");
  color: ▢antiquewhite
}
```

- Output:



- The background image chosen should match the text color.


## Background-repeat:

- The background image property repeats the images horizontally and vertically if the image is smaller than the HTML element size. Sometimes it may look odd.
- Example:



- By using background-repeat property we can specify whether the background image should repeat horizontally/ repeat vertically/ should not repeat.
- Repeat horizontally:  `background-repeat: repeat-x;`
- Repeat vertically: `background-repeat: repeat-y;`
- Should not repeat: `background-repeat: no-repeat;`

- The position of the image can be specified with the help of background-position property.
- Example: `background-position: right top;`
- Code:

```html
<div class="bgrepeat">
  <h1>Background repeat</h1>
  <p>By using background-repeat property we can specify whether the background image should repeat
  horizontally/ repeat vertically/ should not repeat.</p>
</div>
```

- Style:

```css
.bgrepeat{
  background-image: url("image2.jpg");
  background-repeat: no-repeat;
  background-position: right top;
  color: burlywood;
}
```

- Output:

## Background repeat

By using background-repeat property we can specify whether the background image should repeat horizontally/ repeat vertically/ should not repeat.

## Background-attachment:

- The background-attachment property specifies whether the background image attached should be scrolled along with the text or it should be in fixed size.
- Example:
  - `background-attachment: fixed;`
  - `background-attachment: scroll;`

## Background-shorthand property:

- To shorten the code, all the background properties can be included in one single property background.
- The background is a shorthand property.
- Expanded code and Shorthand property:

```css
body{
  background-color: pink;
  background-image: url("image.png");
  background-repeat: no-repeat;
  background-position: right top;
}
```

```css
body{
  background: pink url("image.png") no-repeat right top;
}
```

## Background-size:

- The background-size property is used to set the size of the background image.
- Example: `background-size: 100px;`