In CSS, the gradient property is used to create smooth transitions between two or more colors. Gradients can be linear, radial, or conic. Gradients are not technically colors but are generated images, meaning they can be used wherever an image is used.

1. Linear Gradient

A linear gradient transitions colors along a straight line (horizontal, vertical, diagonal).

Syntax:

background: linear-gradient(direction, color1, color2, ...);

direction: The angle (e.g., 90deg) or keywords (to right, to bottom, etc.).

color1, color2: The colors in the gradient.

Example:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Linear Gradient Example</title>

<style>

.linear-gradient {

width: 300px;

height: 200px;

background: linear-gradient(to right, red, yellow);

border: 1px solid black;

}

</style>

</head>

<body>

<div class="linear-gradient"></div>

</body>

</html>

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2. Radial Gradient

A radial gradient transitions colors outward in a circular or elliptical shape.

Syntax:

background: radial-gradient(shape size at position, color1, color2, ...);

shape size: Optional (circle or ellipse).

at position: Optional (e.g., center, top left, or specific percentages).

color1, color2: The gradient colors.

Example:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Radial Gradient Example</title>

<style>

.radial-gradient {

width: 300px;

height: 200px;

background: radial-gradient(circle, blue, green, yellow);

border: 1px solid black;

}

</style>

</head>

<body>

<div class="radial-gradient"></div>

</body>

</html>

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3. Conic Gradient

A conic gradient transitions colors around a central point in a circular fashion.

Syntax:

background: conic-gradient(from angle, color1, color2, ...);

from angle: Optional starting angle (e.g., from 90deg).

color1, color2: The gradient colors.

Example:

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>Conic Gradient Example</title>

<style>

.conic-gradient {

width: 300px;

height: 300px;

background: conic-gradient(from 0deg, red, yellow, green, blue, red);

border: 1px solid black;

border-radius: 50%;

}

</style>

</head>

<body>

<div class="conic-gradient"></div>

</body>

</html>