

HTML Colors

HTML Colors

Welcome to the presentation on HTML colors. In this session, we will explore the fundamentals of colors in HTML and how they can be applied to enhance the visual appeal of web pages.



What are HTML Colors?

- HTML colors are used to define the color scheme of elements on a webpage.
- Colors can be applied to text, backgrounds, borders, and other elements to create visually appealing and engaging web content.



Color Representation

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Named Colors

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01

Named Colors

Named Colors

Predefined color names such as "red," "blue," or "green."

Tomato

Orange

Dodger
Blue

Violet

Gray

```
<!DOCTYPE html>
<html>
<body>
```

```
<h1 style="background-color:Tomato;">Tomato</h1>
<h1 style="background-color:Orange;">Orange</h1>
<h1 style="background-color:DodgerBlue;">DodgerBlue</h1>
<h1 style="background-color:MediumSeaGreen;">MediumSeaGreen</h1>
<h1 style="background-color:Gray;">Gray</h1>
<h1 style="background-color:SlateBlue;">SlateBlue</h1>
<h1 style="background-color:Violet;">Violet</h1>
<h1 style="background-color:LightGray;">LightGray</h1>
```

```
</body>
</html>
|
```

Tomato

Orange

DodgerBlue

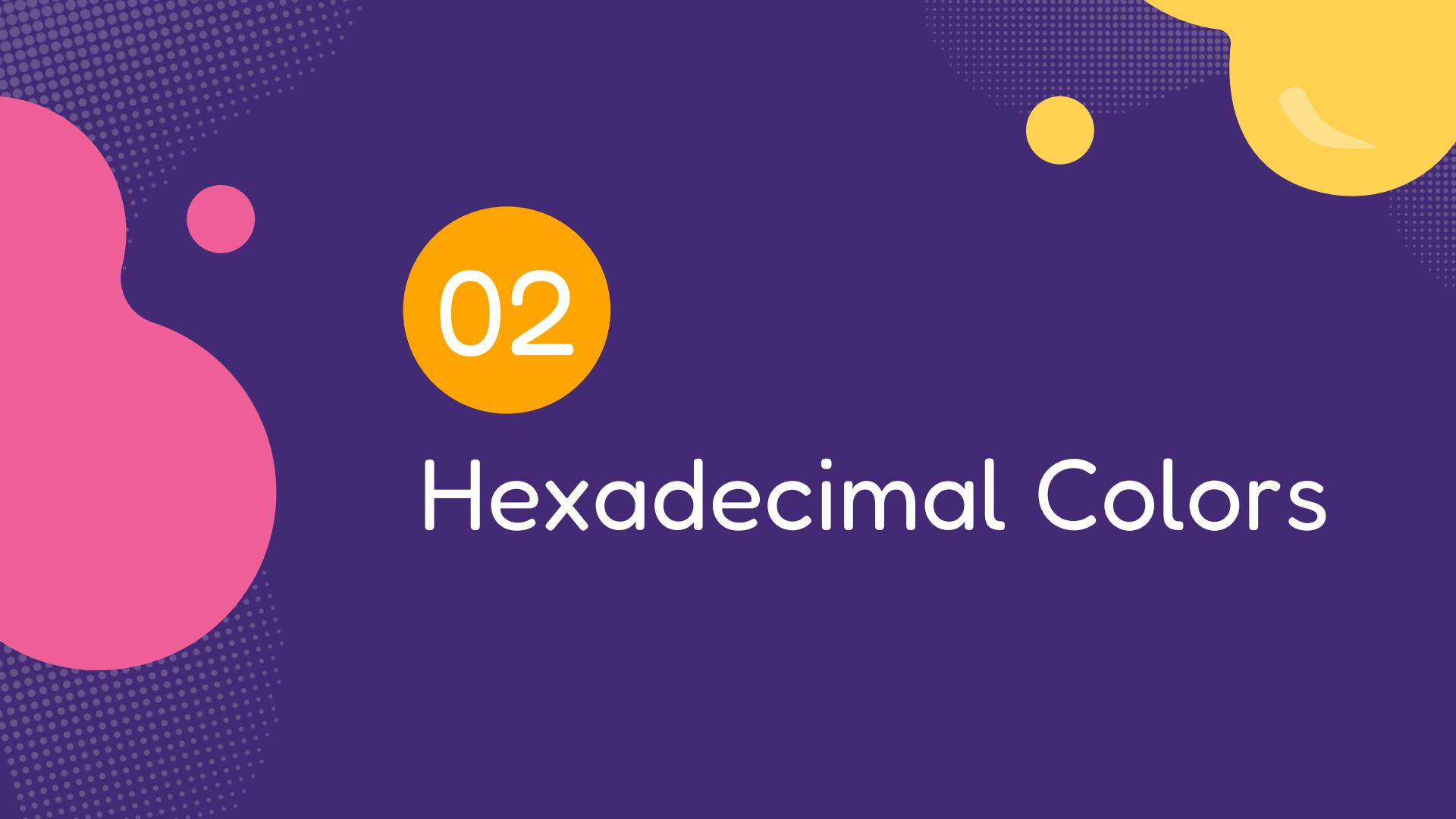
MediumSeaGreen

Gray

SlateBlue

Violet

LightGray



02

Hexadecimal Colors

HEX Color Values

In HTML, a color can be specified using a hexadecimal value in the form:

#rrggbba

Where rr (red), gg (green) and bb (blue) are hexadecimal values between 00 and ff (same as decimal 0-255).

#ff0000

#00ff00

#000000

#ffffff

???

```
<!DOCTYPE html>
<html>
<body>

<h1 style="background-color:#ff0000;">#ff0000</h1>
<h1 style="background-color:#0000ff;">#0000ff</h1>
<h1 style="background-color:#3cb371;">#3cb371</h1>
<h1 style="background-color:#ee82ee;">#ee82ee</h1>
<h1 style="background-color:#ffa500;">#ffa500</h1>
<h1 style="background-color:#6a5acd;">#6a5acd</h1>

</body>
</html>
```

#ff0000

#0000ff

#3cb371

#ee82ee

#ffa500

#6a5acd



03

RGB Colors

RGB Colors

In HTML, a color can be specified as an RGB value, using this formula:

`rgb(red, green, blue)`

Each parameter (red, green, and blue) defines the intensity of the color with a value between 0 and 255.

This means that there are $256 \times 256 \times 256 = 16777216$ possible colors!

(255, 0, 0)

(0, 255, 0)

(0, 0, 0)

(255, 255,
255)

???

```
<!DOCTYPE html>
<html>
<body>

<h1 style="background-color:rgb(255, 0, 0);">rgb(255, 0, 0)</h1>
<h1 style="background-color:rgb(0, 0, 255);">rgb(0, 0, 255)</h1>
<h1 style="background-color:rgb(60, 179, 113);">rgb(60, 179, 113)</h1>
<h1 style="background-color:rgb(238, 130, 238);">rgb(238, 130, 238)</h1>
<h1 style="background-color:rgb(255, 165, 0);">rgb(255, 165, 0)</h1>
<h1 style="background-color:rgb(106, 90, 205);">rgb(106, 90, 205)</h1>

</body>
</html>
```

rgb(255, 0, 0)

rgb(0, 0, 255)

rgb(60, 179, 113)

rgb(238, 130, 238)

rgb(255, 165, 0)

rgb(106, 90, 205)



04

RGBA Colors

RGBA Colors

RGBA color values are an extension of RGB color values with an Alpha channel - which specifies the opacity for a color.

An RGBA color value is specified with:

`rgba(red, green, blue, alpha)`

The alpha parameter is a number between 0.0 (fully transparent) and 1.0 (not transparent at all)

(255, 0,
0,1)

(255, 0,
0,0.8)

(255, 0,
0,0.6)

(255, 0,
0,0.4)

???

```
<!DOCTYPE html>
<html>
<body>

<h1 style="background-color:rgba(255, 99, 71, 0);">rgba(255, 99, 71, 0)</h1>
<h1 style="background-color:rgba(255, 99, 71, 0.2);">rgba(255, 99, 71, 0.2)</h1>
<h1 style="background-color:rgba(255, 99, 71, 0.4);">rgba(255, 99, 71, 0.4)</h1>
<h1 style="background-color:rgba(255, 99, 71, 0.6);">rgba(255, 99, 71, 0.6)</h1>
<h1 style="background-color:rgba(255, 99, 71, 0.8);">rgba(255, 99, 71, 0.8)</h1>
<h1 style="background-color:rgba(255, 99, 71, 1);">rgba(255, 99, 71, 1)</h1>

</body>
</html>
```

rgba(255, 99, 71, 0)

rgba(255, 99, 71, 0.2)

rgba(255, 99, 71, 0.4)

rgba(255, 99, 71, 0.6)

rgba(255, 99, 71, 0.8)

rgba(255, 99, 71, 1)



05

HSL Colors

HSL Colors

In HTML, a color can be specified using hue, saturation, and lightness (HSL) in the form:

hsl(hue, saturation, lightness)

Hue is a degree on the color wheel from 0 to 360. 0 is red, 120 is green, and 240 is blue.

Saturation is a percentage value. 0% means a shade of gray, and 100% is the full color.

Lightness is also a percentage value. 0% is black, and 100% is white.

```
<!DOCTYPE html>
<html>
<body>
<h1 style="background-color:hsl(0, 100%, 50%);">hsl(0, 100%, 50%)</h1>
<h1 style="background-color:hsl(240, 100%, 50%);">hsl(240, 100%, 50%)</h1>
<h1 style="background-color:hsl(147, 50%, 47%);">hsl(147, 50%, 47%)</h1>
<h1 style="background-color:hsl(300, 76%, 72%);">hsl(300, 76%, 72%)</h1>
<h1 style="background-color:hsl(39, 100%, 50%);">hsl(39, 100%, 50%)</h1>
<h1 style="background-color:hsl(248, 53%, 58%);">hsl(248, 53%, 58%)</h1>
</body>
</html>
```

hsl(0, 100%, 50%)

hsl(240, 100%, 50%)

hsl(147, 50%, 47%)

hsl(300, 76%, 72%)

hsl(39, 100%, 50%)

hsl(248, 53%, 58%)

Try

Demo

Thank YOU

by Hamza