

SureshTechs

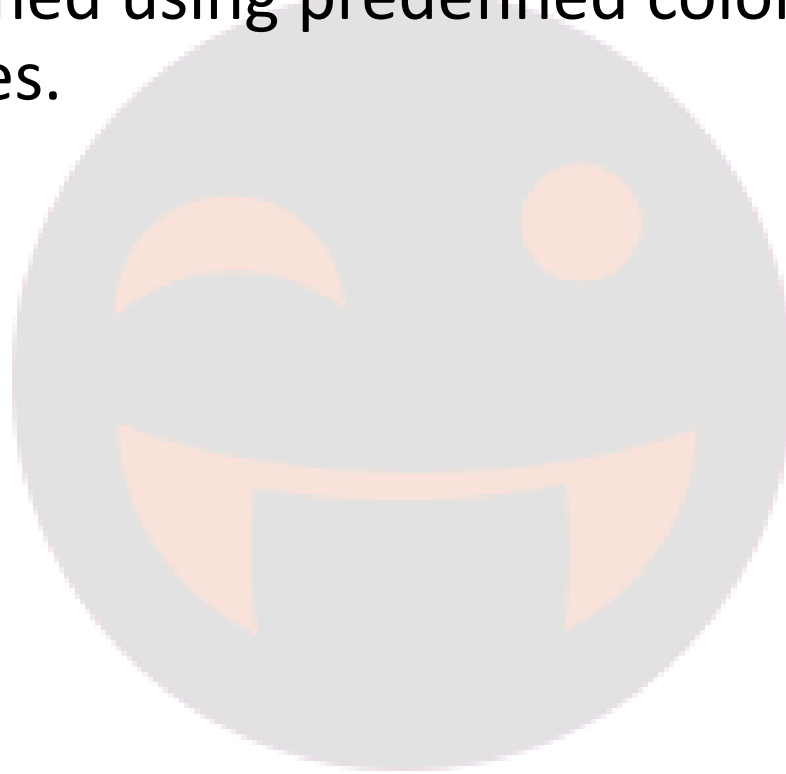


HTML

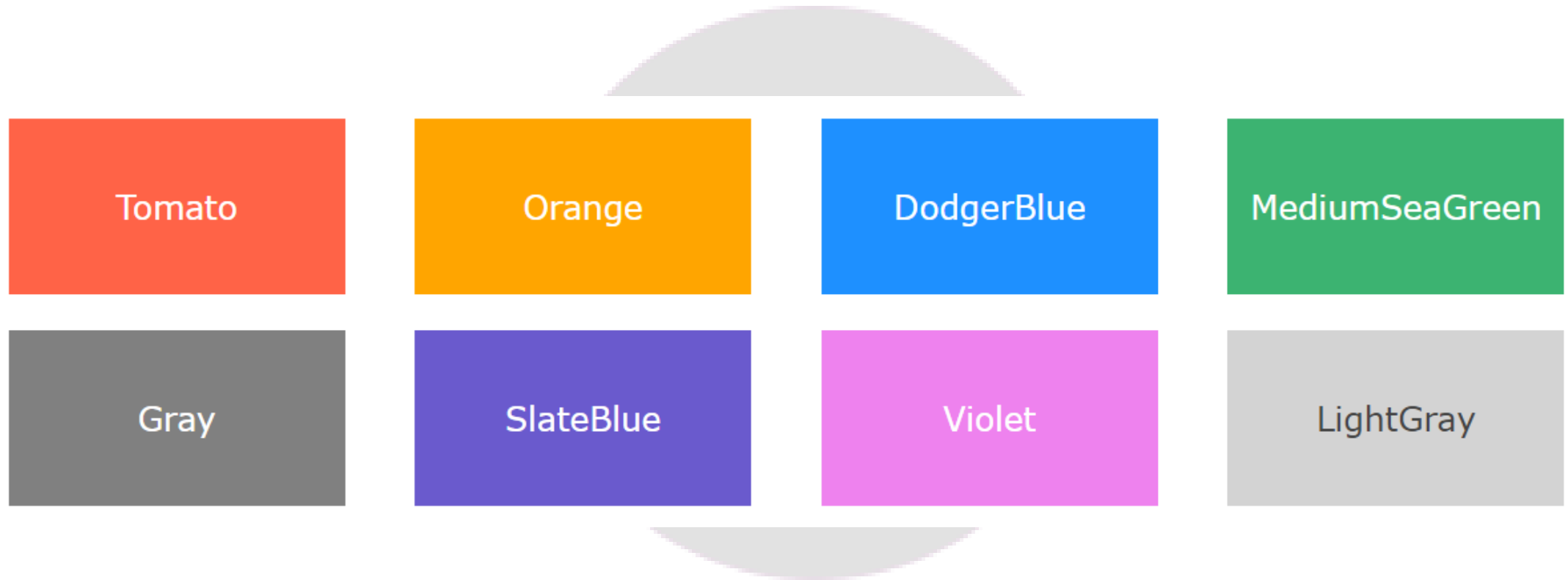
COLORS

How to use colors?

- HTML colors are specified using predefined color names, or RGB, HEX, HSL, RGBA, HSLA values.



Predefined colors



140 colors

- https://www.w3schools.com/colors/colors_names.asp



RGB Value

- **`rgb(red, green, blue)`**
- Each parameter (red, green, and blue) defines the intensity of the color between 0 and 255.
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- To display black, set all color parameters to 0, like this: `rgb(0, 0, 0)`.
- To display white, set all color parameters to 255, like this: `rgb(255, 255, 255)`.

Shades of gray in rgb

- Shades of gray are often defined using equal values for all the 3 light sources:

`rgb(0, 0, 0)`

`rgb(60, 60, 60)`

`rgb(120, 120, 120)`

`rgb(180, 180, 180)`

`rgb(240, 240, 240)`

`rgb(255, 255, 255)`

RGBA Value

- 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):

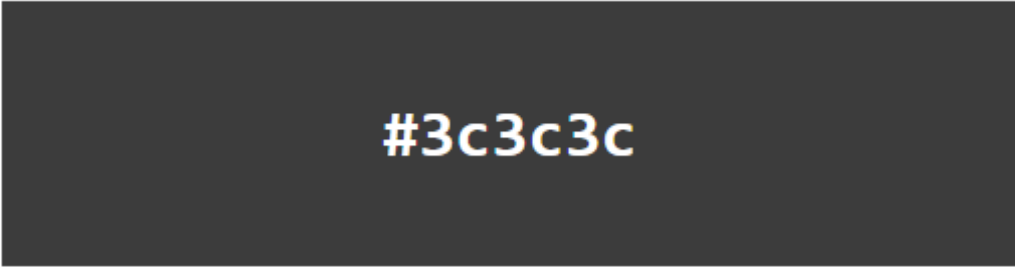
HEX Value

- In HTML, a color can be specified using a hexadecimal value in the form:
- **#rrggbb**
- Where rr (red), gg (green) and bb (blue) are hexadecimal values between 00 and ff (same as decimal 0-255).
- For example, #ff0000 is displayed as red, because red is set to its highest value (ff) and the others are set to the lowest value (00).

Shades of gray in hex



#000000



#3c3c3c



#787878



#b4b4b4



#f0f0f0

#ffffff

HSL Value

- ***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 can be described as the intensity of a color. Saturation is a percentage value, 0% complete gray, 50% is 50% gray, but you can still see the color. and 100% is the full color.
- The lightness of a color can be described as how much light you want to give the color, where 0% means no light (black), 50% means 50% light (neither dark nor light) 100% means full lightness (white).

Shades of gray in HSL

`hsl(0, 0%, 0%)`

`hsl(0, 0%, 24%)`

`hsl(0, 0%, 47%)`

`hsl(0, 0%, 71%)`

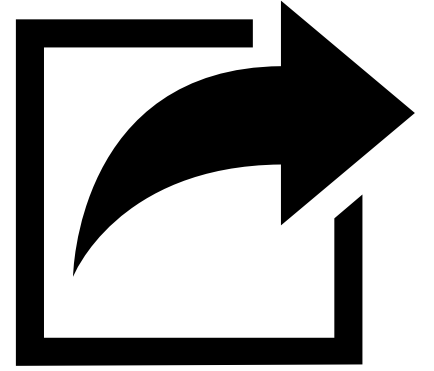
`hsl(0, 0%, 94%)`

`hsl(0, 0%, 100%)`

HSLA Value

- HSLA color values are an extension of HSL color values with an alpha channel - which specifies the opacity for a color.
- An HSLA color value is specified with:
- ***hsla(hue, saturation, lightness, alpha)***
- The alpha parameter is a number between 0.0 (fully transparent) and 1.0 (not transparent at all):

Thank you



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