Colors and backgrounds

Web development I: Front-end engineering

Color names



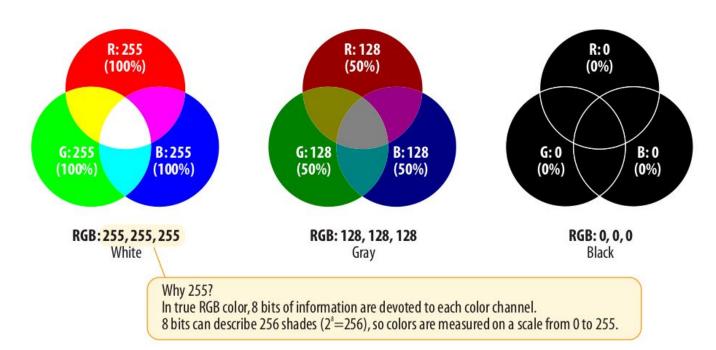
https://www.w3.org/wiki/CSS/Properties/color/keywords

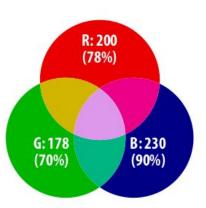
17 standard color names in CSS2.1

140 extended color names in CSS3

RGB color model



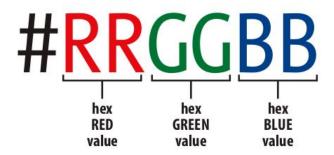


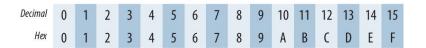


RGB: 200, 178, 230 Pleasant lavender

Hexadecimal notation









The decimal number 32 is represented as

2 0

2 sixteens and 0 ones

The decimal number 42 is represented as

RGBA colors



Playing with RGBa

Playing with RGBa

Playing with RGBa

```
h1 {color: rgba(0, 0, 0, .1);}
```

Opacity



```
h1 {color: green; background: white; opacity: .25;}
h1 {color: green; background: white; opacity: .5;}
h1 {color: green; background: white; opacity: 1;}
```

Playing with opacity

Playing with opacity

Playing with opacity

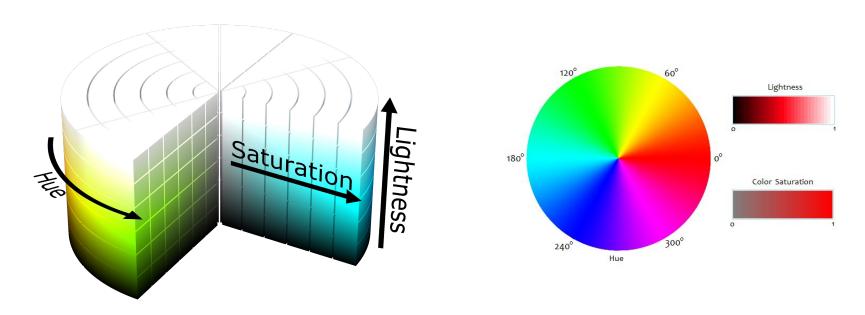
opacity: .25

opacity: .5

opacity: 1

HSL color model





https://www.w3.org/TR/css-color-3/#hsl-color

Background Images



background-image

background-repeat

background-position

<u>background-attachment</u>

background-clip

<u>background-size</u>

background-origin

<u>background</u>

URL to image file

Tile direction

Position of the origin image

Position while scrolling

How far the image should extend

Resizing properties

How to count positioning measurements

Shorthand notation

Shorthand background notation



```
body {
background-color: #d2dc9d;
background-image: url(a.png);
background-repeat: no-repeat;
background-position: right top;
background-attachment: fixed;
```

```
body {
  background: #d2dc9d url(a.png)
no-repeat right top fixed;
}
```

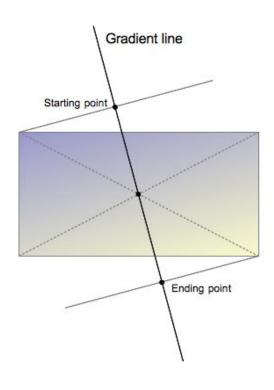
Multiple backgrounds

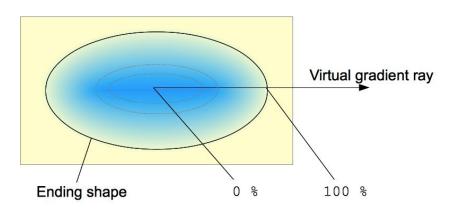


```
body {
  background-image: url(1.png), url(2.png), url(3.png);
  background-position: left top, center center, right bottom;
  background-repeat: no-repeat, no-repeat, no-repeat;
}
```

Gradients







Linear gradients



side-or-corner, angle, color-stop, color-hint

side-or-corner

angle

color-stop

color-hint

Position of the gradient line's starting point

Gradient line's angle of direction

Desired color(s)

Interpolation hint defining how the gradient progresses between adjacent colors

Radial gradients



position, end-shape, size, color-stop, color-hint

position

end-shape

size

color-stop

color-hint

Position of the gradient

Gradient ending shape

Size of the gradient's ending shape

Desired color(s)

Interpolation hint defining how the gradient

progresses between adjacent colors

Gradients



```
div {
  background: linear-gradient(90deg,
yellow, orange 25%, blue);
```

```
div {
  background: radial-gradient(circle at
center, yellow, green);
}
```

