

# Converting Colors

CIE Lab(37.94, 31.17, 2.10)

Have a look what the booklet for  
CIELab(37.94, 31.17, 2.10) contains.

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# Color

**CIE Lab(37.94, 31.17, 2.10)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	884457
RGB	136, 68, 87
RGB Percent	53%, 27%, 34%
CMY	0.4667, 0.7334, 0.6588
CMYK	0.00, 0.50, 0.36, 0.47
HSL	343°, 33%, 40%
HSV	343°, 50%, 53%
XYZ	13.9383, 10.0545, 10.2226
YIQ	90.4980, 34.4290, 20.3250

# Conversions

## Conversions Part 2

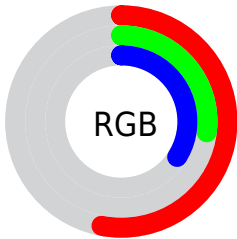
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	136, 68, 87
Decimal	8930391
CIE Lab	37.94, 31.17, 2.10
CIE LCh	38, 31.241, 3.854
Yxy	10.0545, 0.4074, 0.2939
Android (android.graphics.Color)	4287120471 (0xFF884457)
YUV	90.4980, -1.7245, 39.9053
Hunter-Lab	31.7088, 22.9735, 3.0816

# Details

The CIELab color  $[37.94, 31.17, 2.10]$  is a dark color, and the websafe version is hex  $663333$ . A complement of this color would be  $[51.97, -26.45, 3.60]$ , and the grayscale version is  $[38.44, 0.00, -0.00]$ .

A 20% lighter version of the original color is  $[57.88, 31.10, 1.83]$ , and  $[17.95, 30.94, 2.06]$  is the 20% darker color. If you saturate the color by 10%, you get  $[34.90, 37.14, 3.94]$ , and if you desaturate by 10%, it is  $[41.32, 24.84, 0.90]$ .

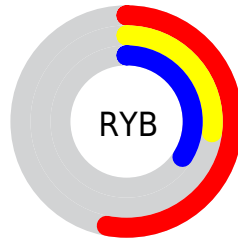
# Distribution



Red (53%)

Green (27%)

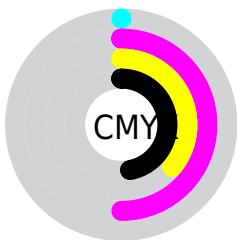
Blue (34%)



Red (53%)

Yellow (27%)

Blue (34%)

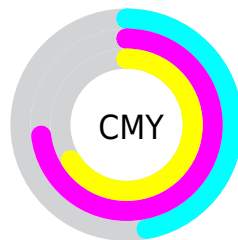


Cyan (0%)

Magenta (50%)

Yellow (36%)

Black (47%)



Cyan (47%)

Magenta (73%)

Yellow (66%)

# Brightness & Saturation Gradients

These gradients show how the CIELab color 117.94, 31.17, 2.10 changes by changing the brightness by 10 percent. The first figure shows a shift by +10% for each color and the second figure -10%.

Similar to the brightness gradients but the following saturation gradients show a change of the CIELab color 117.94, 31.17, 2.10 by changing the saturation by 10% instead.



117.94, 31.17,  
2.10

117.94, 31.17,  
2.10

93.13, 8.70, 3.16

100.00, 0.01,  
-0.01

86.41, 18.01, 6.86

79.92, 27.86,  
11.23

73.77, 38.10,  
16.47

68.10, 48.40,  
22.82

63.11, 58.24,  
30.55

59.00, 66.95,  
39.79

■ 55.95, 73.75,  
50.26

■ 54.08, 78.10,  
60.41

# Harmonies

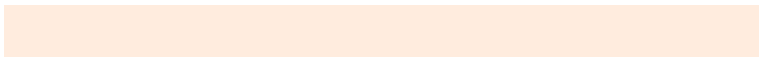
## Analogous

The Analogous color harmony consists of three colors that are next to each other on the color wheel.



100.00, 28.04, -13.77

117.94, 31.17, 2.10



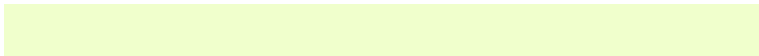
100.00, 25.94, 17.40

# Triad

The Triadic color harmony groups three colors that are evenly spaced from another and form a triangle on the color wheel.



100.00, 31.17, 2.10



100.00, -17.40, 25.94



100.00, -13.77, -28.04

# Complementary

The Complementary color scheme is a pair of colors which are on the opposite of each other on the color wheel.

117.94, 31.17, 2.10

100.00, 0.01, -0.01

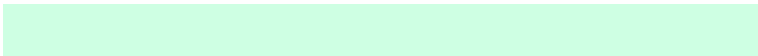
# Split Complementary

Split-complementary colors differ from the complementary color scheme. The scheme consists of three colors, the original color and two neighbors of the complement color.



100.00, -25.94, -17.40

117.94, 31.17, 2.10



100.00, -28.04, 13.77

# Square

The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



100.00, 31.17, 2.10



100.00, -2.10, 31.17



100.00, -31.17, -2.10



100.00, 2.10, -31.17

# Rectangle

The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.

117.94, 31.17, 2.10



100.00, 18.43, 25.23



100.00, -31.17, -2.10



100.00, -18.43, -25.23



# Sweetspot

The Sweet Spot groups the original color and five complimentary colors.

100.00, 0.01, -0.01



53.39, 0.00, -0.01



0.00, 0.00, 0.00

# Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.

100.00, 0.01, -0.01



53.39, 0.00, -0.01



39.76, 64.52, 54.14



9.65, 29.68, 15.24

# Inverse Universe

The Inverse Universe completely reimagines the original color for something new.

100.00, 0.01, -0.01



53.39, 0.00, -0.01



70.28, -38.73, -11.39



23.69, -17.82, -5.24

# Previews

## White Background

### Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIE Lab color 117.94, 31.17, 2.10 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELab 117.94, 31.17, 2.10

## Background

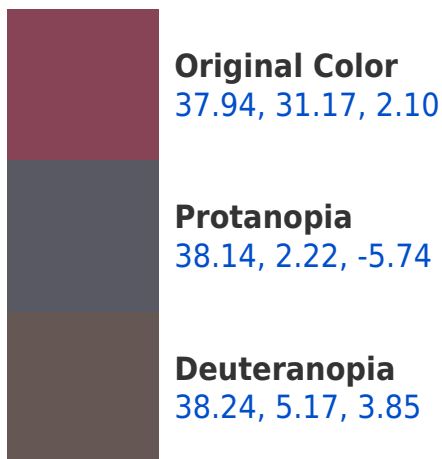


This preview shows how black text looks on a background with the CIELab color 117.94, 31.17, 2.10.

# Color Blindness Simulation

Color vision deficiency is a very complex topic, and I could not describe the different causes any better than Wikipedia does, so if you want to learn more, you should check out their [article about color blindness](#).

## Dichromacy





**Tritanopia**  
37.91, 28.18, 9.59



# Trichromacy



**Original Color**  
37.94, 31.17, 2.10

**Protanomaly**  
37.44, 12.98, -4.12

**Deuteranomaly**  
37.79, 15.07, 2.76

**Tritanomaly**  
37.79, 29.22, 6.90

# Monochromacy



**Original Color**  
37.94, 31.17, 2.10

**Achromatopsia**  
38.24, 0.00, -0.00

**Achromatomaly**  
37.63, 11.64, -0.07

# CSS Examples

## Text

The CSS property to change the color of the text to CIE Lab 117.94, 31.17, 2.10 is called "color". The color property can be set on classes, ids or directly on the HTML element.

```
.text, #text, p{  
    color:rgb(255, 255, 255)  
}
```

If you want to add a text shadow in that color use the text-shadow property, you can generate a text shadow directly with our [CSS Text Shadow Generator](#).

Here you see how black text with a 4 pixel rgb(255, 255, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 255, 255) }
```

## Border

The CSS property to change the border of an element to CIE Lab 117.94, 31.17, 2.10 is called "border". The border property can be set on classes, ids or directly on the HTML element.

This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(255, 255, 255) }
```

If only the border color should be changed use the property `border-color`.

```
.border{ border-color:rgb(255, 255, 255) }
```

If you want to add a box shadow in that color use:

Here you see how a box with a 4 pixel `rgb(255, 255, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 255, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 255, 255);  
box-shadow:4px 4px 4px 4px rgb(255, 255,  
255) }
```

# Background

The CSS property to change the background color of an element to CIE Lab 117.94, 31.17, 2.10 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 255, 255) }
```

If only the background color should be changed can be used:

```
.background{ background-color: rgb(255,  
255, 255) }
```

This example shows the color as background, it is applied via the CSS property "background".

To optimize and compress your CSS code, you can use our [online CSS compressor and optimizer](#) based on csstidy. If you want to create a linear or radial gradient as background or border, check our [CSS Gradient Generator](#).

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