

# Converting Colors

CIE Lab(69.36, -19.49, -15.35)

Have a look what the booklet for  
CIELab(69.36, -19.49, -15.35)  
contains.

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# Color

**CIELab(69.45, -19.78, -15.02)**

# Conversions

## Conversions Part 1

Format	Color
Hex	68B5C4
RGB	104, 181, 196
RGB Percent	41%, 71%, 77%
CMY	0.5921, 0.2902, 0.2314
CMYK	0.47, 0.08, 0.00, 0.23
HSL	190°, 44%, 59%
HSV	190°, 47%, 77%
XYZ	32.1946, 39.9726, 58.2382
YIQ	159.6870, -50.7070, -11.6590

# Conversions

## Conversions Part 2

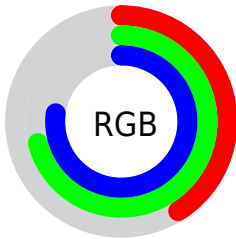
<b>Format</b>	<b>Color</b>
<b>RYB</b>	104, 146, 196
Decimal	6862276
CIELab	69.45, -19.78, -15.02
CIELCh	69, 24.836, 217.211
Yxy	39.9726, 0.2469, 0.3065
Android (android.graphics.Color)	4285052356 (0xFF68B5C4)
YUV	159.6870, 17.9023, -48.8375
Hunter-Lab	63.2239, -19.7469, -10.3578

# Details

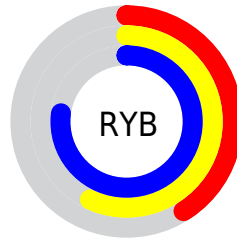
The CIELab color  $69.45, -19.78, -15.02$  is a light color, and the websafe version is hex  $66CCCC$ . A complement of this color would be  $57.97, 28.49, 21.07$ , and the grayscale version is  $65.70, 0.00, -0.01$ .

A 20% lighter version of the original color is  $89.46, -19.73, -15.23$ , and  $49.46, -19.83, -14.82$  is the 20% darker color. If you saturate the color by 10%, you get  $67.76, -22.37, -17.64$ , and if you desaturate by 10%, it is  $71.28, -16.48, -12.17$ .

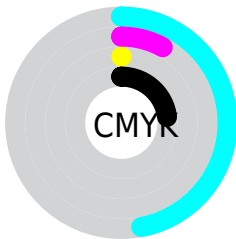
# Distribution



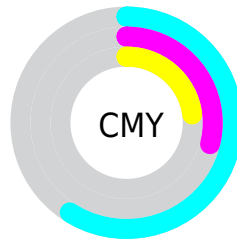
- Red (41%)
- Green (71%)
- Blue (77%)



- Red (41%)
- Yellow (57%)
- Blue (77%)



- Cyan (47%)
- Magenta (8%)
- Yellow (0%)
- Black (23%)



- Cyan (59%)
- Magenta (29%)
- Yellow (23%)

# Brightness & Saturation Gradients

These gradients show how the CIE Lab color 149.45, -19.78, -15.02 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 CIE Lab color 149.45, -19.78, -15.02 by changing the saturation by 10% instead.



149.45, -19.78,  
-15.02

149.45, -19.78,  
-15.02

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

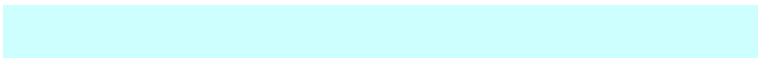
## Analogous

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



100.00, -24.64, -3.12

149.45, -19.78, -15.02



100.00, -9.62, -22.90

# Triad

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



100.00, -19.78, -15.02



100.00, 22.90, -9.62



100.00, -3.12, 24.64

# Complementary

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

149.45, -19.78, -15.02

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, 9.62, 22.90

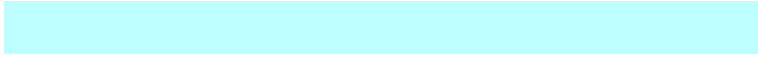
149.45, -19.78, -15.02



100.00, 24.64, 3.12

# Square

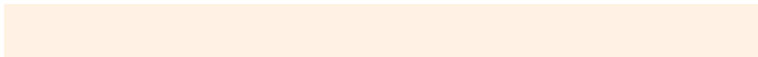
The Square scheme is like the rectangle color scheme, but the four colors are evenly spaced on the color wheel.



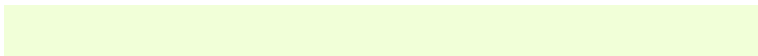
100.00, -19.78, -15.02



100.00, 15.02, -19.78



100.00, 19.78, 15.02

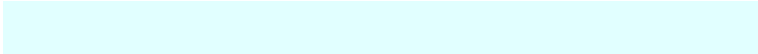


100.00, -15.02, 19.78

# Rectangle

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

149.45, -19.78, -15.02



100.00, -1.21, -24.81



100.00, 19.78, 15.02



100.00, 1.21, 24.81



# 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 149.45, -19.78, -15.02 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 149.45, -19.78, -15.02**

## **Background**



This preview shows how black text looks on a background with the CIELab color 149.45, -19.78, -15.02.



# 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



**Original Color**  
69.45, -19.78, -15.02

**Protanopia**  
69.26, 3.10, -9.97

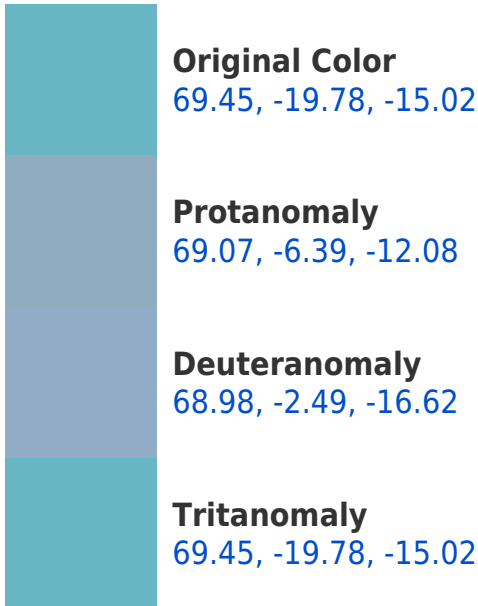
**Deuteranopia**  
69.17, 8.65, -16.71



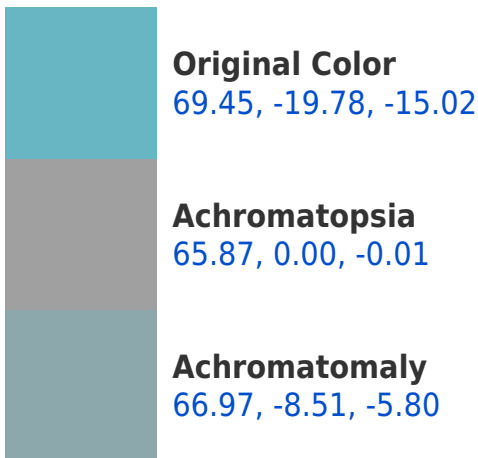


**Tritanopia**  
69.45, -19.78, -15.02

# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to CIELab 149.45, -19.78, -15.02 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 CIELab 149.45, -19.78, -15.02 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 149.45, -19.78, -15.02 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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