

# Converting Colors

CIELCh(65, 67.301, 67.336)

Have a look what the booklet for  
CIELCh(65, 67.301, 67.336) contains.

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# **Color**

**CIELCh(65, 67.202, 67.476)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E08A27
RGB	224, 138, 39
RGB Percent	88%, 54%, 15%
CMY	0.1228, 0.4598, 0.8482
CMYK	0.00, 0.38, 0.83, 0.12
HSL	32°, 75%, 51%
HSV	32°, 83%, 88%
XYZ	40.0598, 34.0472, 6.3549
YIQ	152.4280, 83.0350, -12.5570

# Conversions

## Conversions Part 2

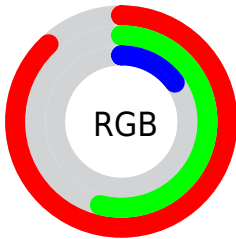
Format	Color
R <sub>Y</sub> B	200, 224, 39
Decimal	14715431
CIE Lab	65.00, 25.74, 62.08
CIE LCh	65, 67.202, 67.476
Yxy	34.0472, 0.4979, 0.4231
Android (android.graphics.Color)	4292905511 (0xFFE08A27)
YUV	152.4280, -55.9200, 62.7686
Hunter-Lab	58.3500, 20.4356, 34.3877

# Details

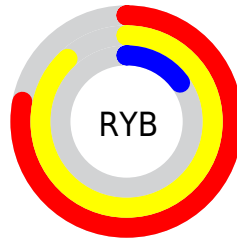
The CIELCh color **65, 67.202, 67.476** is a dark color, and the websafe version is hex **FF9933**. The color can be described as middle washed orange. A complement of this color would be **52, 58.412, 280.442**, and the grayscale version is **63, 0.008, 296.813**.

A 20% lighter version of the original color is **82, 58.822, 77.576**, and **45, 60.022, 64.352** is the 20% darker color. If you saturate the color by 10%, you get **63, 73.220, 65.150**, and if you desaturate by 10%, it is **68, 59.439, 69.278**.

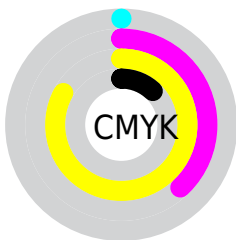
# Distribution



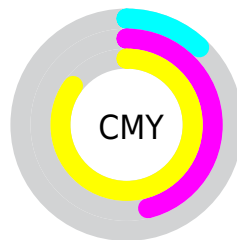
- Red (88%)
- Green (54%)
- Blue (15%)



- Red (78%)
- Yellow (88%)
- Blue (15%)



- Cyan (0%)
- Magenta (38%)
- Yellow (83%)
- Black (12%)



- Cyan (12%)
- Magenta (46%)
- Yellow (85%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 65, 67.202, 67.476 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 CIELCh color 65, 67.202, 67.476 by changing the saturation by 10% instead.



65, 67.202, 67.476

65, 67.202, 67.476

100, 67.202,  
67.476

55, 67.202, 67.476

85, 67.202, 67.476

45, 67.202, 67.476

95, 67.202, 67.476

35, 67.202, 67.476

25, 67.202, 67.476

15, 67.202, 67.476

5, 67.202, 67.476

0, 67.202, 67.476

65, 67.202, 67.476

65, 67.202, 67.476

63, 73.220, 65.150

68, 59.439, 69.278

61, 76.350, 63.086

70, 50.892, 70.815

73, 42.154, 72.233

76, 33.531, 73.598

79, 25.166, 74.934

82, 17.110, 76.244

85, 9.374, 77.518

88, 1.943, 78.629

91, 5.205, 260.116

# Harmonies

# Complementary

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



65, 67.202, 67.476



52, 58.412, 280.442

# Rectangle

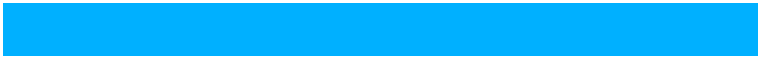
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



65, 67.202, 67.476



65, 67.202, 117.476



65, 67.202, 247.476



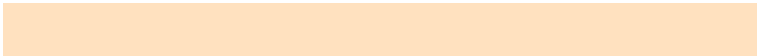
65, 67.202, 297.476

# Sweetspot

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



65, 67.200, 67.479



91, 21.071, 75.920



50, 72.636, 358.828



47, 14.482, 75.457



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



65, 67.200, 67.479



69, 83.956, 63.080



86, 82.654, 105.088



46, 4.176, 77.917



49, 63.655, 63.727



12, 19.707, 64.238





# Inverse Universe

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



52, 58.412, 280.442



53, 78.214, 287.844



33, 108.923, 304.672



45, 4.106, 260.463



36, 58.417, 287.186



7, 20.108, 278.091



# Previews

## White Background



This preview shows how the CIELCh color 65, 67.202, 67.476 looks on a 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 CIELCh color 65, 67.202, 67.476 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](#).

# CIELCh 65, 67.202, 67.476

## Background



This preview shows how black text looks on a background with the CIELCh color 65, 67.202, 67.476.



This preview shows how white text looks on a background with the CIELCh color 65, 67.202, 67.476.

# 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**

65, 67.202, 67.476

**Protanopia**

65, 58.811, 95.827

**Deuteranopia**

65, 63.347, 82.494



**Tritanopia**  
65, 41.200, 17.283



# Trichromacy



**Original Color**  
65, 67.202, 67.476

**Protanomaly**  
65, 59.703, 84.409

**Deuteranomaly**  
65, 64.248, 76.990

**Tritanomaly**  
65, 46.306, 43.550

# Monochromacy



**Original Color**  
65, 67.202, 67.476

**Achromatopsia**  
63, 0.008, 296.813

**Achromatomaly**  
63, 24.302, 74.542

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 65, 67.202, 67.476 is called "color". The color property can be set on classes, ids or directly on the HTML element.

This example shows how text in the color `rgb(224, 138, 39)` looks like.

```
.text, #text, p{  
    color:rgb(224, 138, 39)  
}
```

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(224, 138, 39) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(224, 138, 39) }
```

## Border

The CSS property to change the border of an element to CIELCh 65, 67.202, 67.476 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(224, 138, 39) }
```

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

```
.border{ border-color:rgb(224, 138, 39) }
```

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

Here you see how a box with a 4 pixel `rgb(224, 138, 39)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(224, 138, 39); -webkit-box-  
shadow:4px 4px 4px 4px rgb(224, 138, 39);  
box-shadow:4px 4px 4px 4px rgb(224, 138,  
39) }
```

# Background

The CSS property to change the background color of an element to CIELCh 65, 67.202, 67.476 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(224, 138, 39) }
```

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

```
.background{ background-color: rgb(224,  
138, 39) }
```

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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