

# Converting Colors

CIELCh(67, 42.850, 78.700)

Have a look what the booklet for  
CIELCh(67, 42.850, 78.700) contains.

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# **Color**

**CIELCh(67, 42.802, 78.735)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C89C57
RGB	200, 156, 87
RGB Percent	78%, 61%, 34%
CMY	0.2167, 0.3891, 0.6596
CMYK	0.00, 0.22, 0.57, 0.22
HSL	37°, 51%, 56%
HSV	37°, 57%, 78%
XYZ	37.3163, 36.6320, 14.0754
YIQ	161.2900, 48.3730, -12.1310

# Conversions

## Conversions Part 2

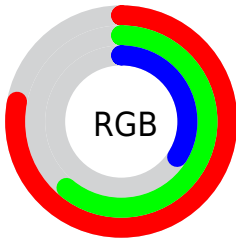
Format	Color
<a href="#">RYB</a>	<a href="#">159, 200, 87</a>
Decimal	<a href="#">13147223</a>
CIELab	<a href="#">67.00, 8.36, 41.98</a>
CIElCh	<a href="#">67, 42.802, 78.735</a>
Yxy	<a href="#">36.6320, 0.4239, 0.4162</a>
Android (android.graphics.Color)	<a href="#">4291337303</a> ( <a href="#">0xFFC89C57</a> )
YUV	<a href="#">161.2900, -36.6250, 33.9487</a>
Hunter-Lab	<a href="#">60.5244, 4.1365, 28.5787</a>

# Details

The CIELCh color **67, 42.802, 78.735** is a dark color, and the websafe version is hex **CC9966**. The color can be described as middle muted orange. A complement of this color would be **54, 40.774, 277.615**, and the grayscale version is **66, 0.008, 296.813**.

A 20% lighter version of the original color is **87, 42.077, 80.603**, and **47, 42.780, 78.813** is the 20% darker color. If you saturate the color by 10%, you get **65, 50.534, 77.212**, and if you desaturate by 10%, it is **69, 34.916, 80.187**.

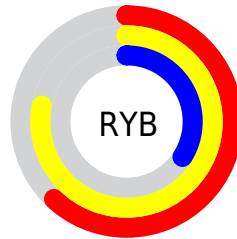
# Distribution



Red (78%)

Green (61%)

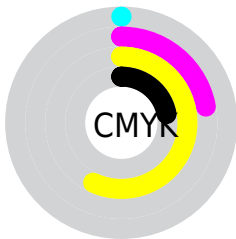
Blue (34%)



Red (62%)

Yellow (78%)

Blue (34%)

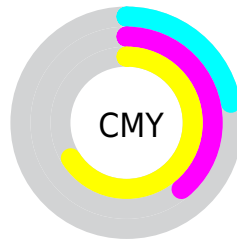


Cyan (0%)

Magenta (22%)

Yellow (57%)

Black (22%)



Cyan (22%)

Magenta (39%)

Yellow (66%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 67, 42.802, 78.735 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 67, 42.802, 78.735 by changing the saturation by 10% instead.



■ 67, 42.802, 78.735

■ 67, 42.802, 78.735

■ 100, 42.802,  
78.735

■ 57, 42.802, 78.735

■ 87, 42.802, 78.735

■ 47, 42.802, 78.735

■ 97, 42.802, 78.735

■ 37, 42.802, 78.735

■ 27, 42.802, 78.735

■ 17, 42.802, 78.735

■ 7, 42.802, 78.735

■ 0, 42.802, 78.735

■ 67, 42.802, 78.735

■ 67, 42.802, 78.735

■ 65, 50.534, 77.212

■ 69, 34.916, 80.187

63, 57.717, 75.535

72, 27.083, 81.585

61, 63.691, 73.565

74, 19.404, 82.944

59, 67.654, 71.083

76, 11.922, 84.262

58, 68.814, 70.197

79, 4.647, 85.511

81, 2.425, 266.930

84, 9.306, 268.039

87, 16.011,  
269.172

89, 17.221,  
261.766

# Harmonies

# Complementary

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



67, 42.802, 78.735



54, 40.774, 277.615

# Rectangle

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



67, 42.802, 78.735



67, 42.802, 128.735



67, 42.802, 258.735



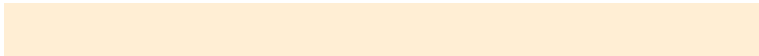
67, 42.802, 308.735

# Sweetspot

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



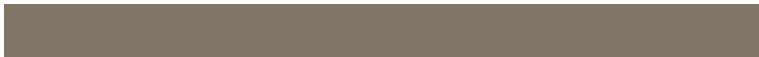
67, 42.802, 78.739



95, 14.944, 84.172



53, 49.647, 356.775



50, 10.026, 83.907



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



67, 42.802, 78.739



81, 62.918, 76.822



78, 57.451, 109.706



41, 4.027, 85.170



48, 59.188, 70.724



8, 13.407, 71.752





# Inverse Universe

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



54, 40.774, 277.615



62, 60.199, 281.616



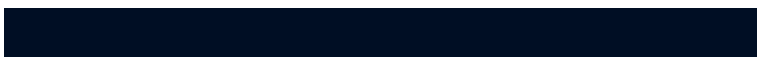
44, 67.300, 301.072



40, 4.000, 267.675



30, 63.153, 292.772



4, 15.801, 278.094



# Previews

## White Background



This preview shows how the CIELCh color 67, 42.802, 78.735 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 CIE LCh color 67, 42.802, 78.735 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

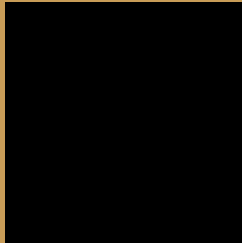
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**CIELCh 67, 42.802, 78.735**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 67, 42.802, 78.735.



This preview shows how white text looks on a background with the CIELCh color 67, 42.802, 78.735.

# 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**

67, 42.802, 78.735

**Protanopia**

67, 40.562, 95.301

**Deuteranopia**

67, 42.802, 78.735

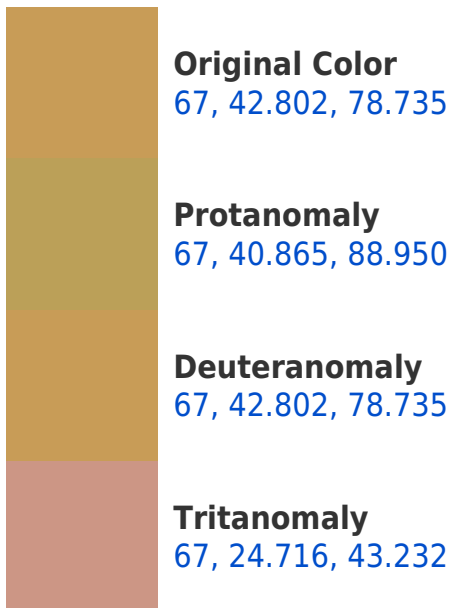


# Tritanopia

67, 24.111, 6.135



# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 67, 42.802, 78.735 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(200, 156, 87)` looks like.

```
.text, #text, p{  
    color:rgb(200, 156, 87)  
}
```

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(200, 156, 87) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(200, 156, 87) }
```

## Border

The CSS property to change the border of an element to CIELCh 67, 42.802, 78.735 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(200, 156, 87) }
```

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

```
.border{ border-color:rgb(200, 156, 87) }
```

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

Here you see how a box with a 4 pixel `rgb(200, 156, 87)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(200, 156, 87); -webkit-box-  
shadow:4px 4px 4px 4px rgb(200, 156, 87);  
box-shadow:4px 4px 4px 4px rgb(200, 156,  
87) }
```

# Background

The CSS property to change the background color of an element to CIELCh 67, 42.802, 78.735 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(200, 156, 87) }
```

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

```
.background{ background-color: rgb(200,  
156, 87) }
```

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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