

# Converting Colors

CIELCh(68, 42.071, 77.990)

Have a look what the booklet for  
CIELCh(68, 42.071, 77.990) contains.

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# Color

**CIELCh(68, 42.004, 77.805)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CB9E5B
RGB	203, 158, 91
RGB Percent	80%, 62%, 36%
CMY	0.2034, 0.3799, 0.6426
CMYK	0.00, 0.22, 0.55, 0.20
HSL	36°, 52%, 58%
HSV	36°, 55%, 80%
XYZ	38.8102, 37.9720, 15.2091
YIQ	163.8170, 48.3270, -11.2970

# Conversions

## Conversions Part 2

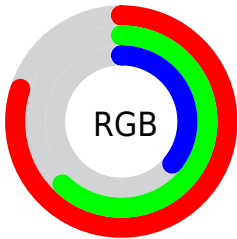
Format	Color
<b>RYB</b>	166, 203, 91
Decimal	13344347
CIELab	68.00, 8.87, 41.06
CIELCh	68, 42.004, 77.805
Yxy	37.9720, 0.4219, 0.4128
Android (android.graphics.Color)	4291534427 (0xFFCB9E5B)
YUV	163.8170, -35.8988, 34.3635
Hunter-Lab	61.6215, 4.5847, 28.5014

# Details

The CIELCh color **68, 42.004, 77.805** 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 **56, 39.568, 276.138**, and the grayscale version is **67, 0.008, 296.813**.

A 20% lighter version of the original color is **87, 40.444, 81.736**, and **48, 42.074, 77.994** is the 20% darker color. If you saturate the color by 10%, you get **66, 49.906, 76.298**, and if you desaturate by 10%, it is **70, 34.013, 79.246**.

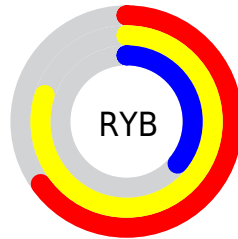
# Distribution



Red (80%)

Green (62%)

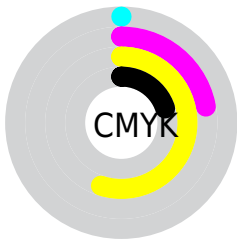
Blue (36%)



Red (65%)

Yellow (80%)

Blue (36%)

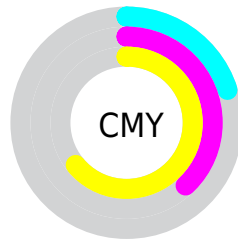


Cyan (0%)

Magenta (22%)

Yellow (55%)

Black (20%)



Cyan (20%)

Magenta (38%)

Yellow (64%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 68, 42.004, 77.805 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 68, 42.004, 77.805 by changing the saturation by 10% instead.



 68, 42.004, 77.805

 68, 42.004, 77.805

 100, 42.004,  
77.805

 58, 42.004, 77.805

 88, 42.004, 77.805

 48, 42.004, 77.805

 98, 42.004, 77.805

 38, 42.004, 77.805

 28, 42.004, 77.805

 18, 42.004, 77.805

 8, 42.004, 77.805

 0, 42.004, 77.805

 68, 42.004, 77.805

 68, 42.004, 77.805

 66, 49.906, 76.298

 70, 34.013, 79.246

64, 57.357, 74.648

73, 26.119, 80.638

61, 63.727, 72.720

75, 18.409, 81.991

59, 68.151, 70.279

78, 10.916, 83.303

59, 69.818, 68.990

80, 3.646, 84.532

83, 3.410, 265.939

86, 10.265,  
267.074

88, 16.939,  
268.205

91, 15.113,  
252.811

# Harmonies

# Complementary

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



68, 42.004, 77.805



56, 39.568, 276.138

# Rectangle

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



68, 42.004, 77.805



68, 42.004, 127.805



68, 42.004, 257.805



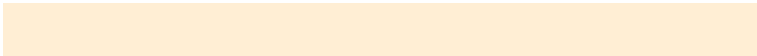
68, 42.004, 307.805

# Sweetspot

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



68, 42.004, 77.809



95, 14.787, 83.034



54, 49.492, 355.340



50, 9.922, 82.768



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



68, 42.004, 77.809



81, 60.821, 76.025



79, 56.895, 109.005



42, 4.065, 84.028



48, 59.968, 69.526



9, 14.714, 70.468



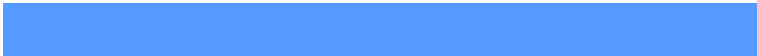


# Inverse Universe

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



56, 39.568, 276.138



64, 57.235, 279.874



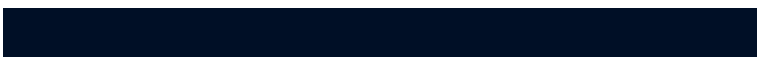
45, 66.399, 300.446



41, 4.033, 266.549



31, 62.556, 291.949



4, 16.985, 278.421



# Previews

## White Background



This preview shows how the CIELCh color 68, 42.004, 77.805 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 68, 42.004, 77.805 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

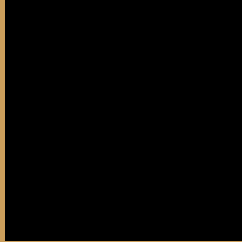
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 68, 42.004, 77.805

## Background



This preview shows how black text looks on a background with the CIELCh color 68, 42.004, 77.805.



This preview shows how white text looks on a background with the CIELCh color 68, 42.004, 77.805.

# 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


68, 42.004, 77.805

### Protanopia

68, 39.371, 95.882

### Deuteranopia

68, 42.004, 77.805



**Tritanopia**  
68, 23.940, 7.359



# Trichromacy



**Original Color**  
68, 42.004, 77.805

**Protanomaly**  
68, 39.768, 88.773

**Deuteranomaly**  
68, 42.004, 77.805

**Tritanomaly**  
68, 24.601, 43.234

# Monochromacy



**Original Color**  
68, 42.004, 77.805

**Achromatopsia**  
67, 0.008, 296.813

**Achromatomaly**  
67, 15.232, 83.349

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 68, 42.004, 77.805 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(203, 158, 91)` looks like.

```
.text, #text, p{  
    color:rgb(203, 158, 91)  
}
```

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(203, 158, 91) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(203, 158, 91) }
```

## Border

The CSS property to change the border of an element to CIELCh 68, 42.004, 77.805 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(203, 158, 91) }
```

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

```
.border{ border-color:rgb(203, 158, 91) }
```

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

Here you see how a box with a 4 pixel `rgb(203, 158, 91)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(203, 158, 91); -webkit-box-  
shadow:4px 4px 4px 4px rgb(203, 158, 91);  
box-shadow:4px 4px 4px 4px rgb(203, 158,  
91) }
```

# Background

The CSS property to change the background color of an element to CIELCh 68, 42.004, 77.805 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(203, 158, 91) }
```

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

```
.background{ background-color: rgb(203,  
158, 91) }
```

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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