

# Converting Colors

CIELCh(68, 71.669, 86.283)

Have a look what the booklet for  
CIELCh(68, 71.669, 86.283) contains.

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# **Color**

**CIELCh(68, 71.701, 86.370)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CCA000
RGB	204, 160, 0
RGB Percent	80%, 63%, 0%
CMY	0.2001, 0.3726, 1.0000
CMYK	0.00, 0.22, 1.00, 0.20
HSL	47°, 100%, 40%
HSV	47°, 100%, 80%
XYZ	37.4659, 37.9720, 5.3537
YIQ	154.9160, 77.5840, -40.4320

# Conversions

## Conversions Part 2

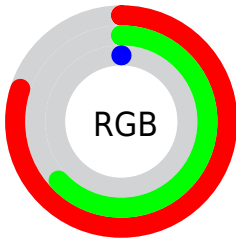
<b>Format</b>	<b>Color</b>
<b>RYB</b>	56, 204, 0
Decimal	13410304
CIELab	68.00, 4.54, 71.56
CIELCh	68, 71.701, 86.370
Yxy	37.9720, 0.4637, 0.4700
Android (android.graphics.Color)	4291600384 (0xFFCCA000)
YUV	154.9160, -76.3736, 43.0467
Hunter-Lab	61.6215, 0.6906, 37.9838

# Details

The CIELCh color **68, 71.701, 86.370** is a dark color, and the websafe version is hex **CC9900**. The color can be described as dark washed orange. A complement of this color would be **30, 97.786, 302.091**, and the grayscale version is **64, 0.008, 296.813**.

A 20% lighter version of the original color is **87, 70.174, 89.678**, and **48, 55.165, 84.000** is the 20% darker color. If you saturate the color by 10%, you get **68, 71.698, 86.372**, and if you desaturate by 10%, it is **69, 69.539, 87.990**.

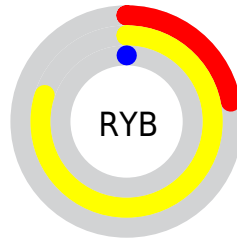
# Distribution



Red (80%)

Green (63%)

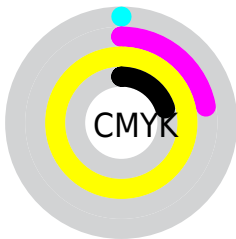
Blue (0%)



Red (22%)

Yellow (80%)

Blue (0%)

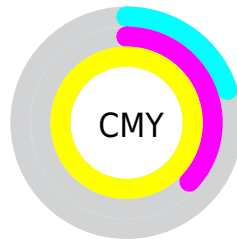


Cyan (0%)

Magenta (22%)

Yellow (100%)

Black (20%)



Cyan (20%)

Magenta (37%)

Yellow (100%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 68, 71.701, 86.370 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, 71.701, 86.370 by changing the saturation by 10% instead.



 68, 71.701, 86.370

 68, 71.701, 86.370

 100, 71.701,  
86.370

 58, 71.701, 86.370

 88, 71.701, 86.370

 48, 71.701, 86.370

 98, 71.701, 86.370

 38, 71.701, 86.370

 28, 71.701, 86.370

 18, 71.701, 86.370

 8, 71.701, 86.370

 0, 71.701, 86.370

 68, 71.701, 86.370

 68, 71.701, 86.370

 68, 71.698, 86.372

 69, 69.539, 87.990

70, 65.270, 89.455

72, 59.051, 90.814

73, 51.570, 92.122

74, 43.368, 93.402

76, 34.803, 94.662

77, 26.085, 95.901

79, 17.338, 97.112

80, 8.628, 98.284

# Harmonies

# Complementary

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



68, 71.701, 86.370



30, 97.786, 302.091

# Rectangle

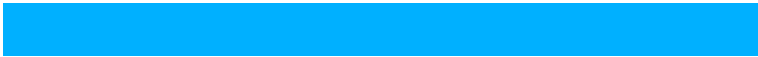
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



68, 71.701, 86.370



68, 71.701, 136.370



68, 71.701, 266.370



68, 71.701, 316.370

# Sweetspot

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



68, 71.698, 86.372



94, 31.269, 95.853



43, 77.963, 28.582



50, 21.345, 95.327



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, 71.698, 86.372



83, 84.736, 86.121



76, 86.005, 119.156



42, 4.893, 98.352



56, 61.528, 86.653



12, 17.228, 90.611





# Inverse Universe

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



30, 97.786, 302.091



38, 117.022, 302.436



27, 110.145, 308.058



40, 4.943, 280.598



24, 82.702, 301.684



3, 20.057, 286.454



# Previews

## White Background



This preview shows how the CIELCh color 68, 71.701, 86.370 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 68, 71.701, 86.370 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, 71.701, 86.370

## Background



This preview shows how black text looks on a background with the CIELCh color 68, 71.701, 86.370.



This preview shows how white text looks on a background with the CIELCh color 68, 71.701, 86.370.

# 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, 71.701, 86.370

### Protanopia

68, 69.732, 95.046

### Deuteranopia

68, 70.798, 82.745



**Tritanopia**  
68, 25.529, 8.473



# Trichromacy



**Original Color**  
68, 71.701, 86.370

**Protanomaly**  
68, 70.282, 91.989

**Deuteranomaly**  
68, 71.068, 83.962

**Tritanomaly**  
67, 38.006, 66.679

# Monochromacy



**Original Color**  
68, 71.701, 86.370

**Achromatopsia**  
64, 0.008, 296.813

**Achromatomaly**  
65, 32.520, 94.339

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 68, 71.701, 86.370 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(204, 160, 0)` looks like.

```
.text, #text, p{  
    color:rgb(204, 160, 0)  
}
```

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(204, 160, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 160, 0) }
```

## Border

The CSS property to change the border of an element to CIELCh 68, 71.701, 86.370 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(204, 160, 0) }
```

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

```
.border{ border-color:rgb(204, 160, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(204, 160, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 160, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 160, 0);  
box-shadow:4px 4px 4px 4px rgb(204, 160,  
0) }
```

# Background

The CSS property to change the background color of an element to CIELCh 68, 71.701, 86.370 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 160, 0) }
```

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

```
.background{ background-color: rgb(204,  
160, 0) }
```

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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