

# Converting Colors

CIELCh(69, 72.583, 87.404)

Have a look what the booklet for  
CIELCh(69, 72.583, 87.404) contains.

<b>CIELCh(69, 72.290, 87.322)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	11
<i><b>Previews</b></i> .....	20
<i><b>Color Blindness Simulation</b></i> .....	23
<i><b>CSS Examples</b></i> .....	26

# **Color**

**CIELCh(69, 72.290, 87.322)**

# Conversions

## Conversions Part 1

Format	Color
Hex	CDA301
RGB	205, 163, 1
RGB Percent	80%, 64%, 0%
CMY	0.1946, 0.3595, 0.9967
CMYK	0.00, 0.20, 1.00, 0.19
HSL	48°, 99%, 40%
HSV	48°, 100%, 81%
XYZ	38.4395, 39.3444, 5.5918
YIQ	157.0900, 77.0340, -41.4780

# Conversions

## Conversions Part 2

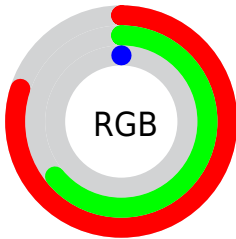
Format	Color
<a href="#">RYB</a>	<a href="#">54, 205, 1</a>
Decimal	<a href="#">13476609</a>
CIELab	<a href="#">69.00, 3.38, 72.21</a>
CIELCh	<a href="#">69, 72.290, 87.322</a>
Yxy	<a href="#">39.3444, 0.4610, 0.4719</a>
Android (android.graphics.Color)	<a href="#">4291666689 (0xFFCDA301)</a>
YUV	<a href="#">157.0900, -76.9524, 42.0171</a>
Hunter-Lab	<a href="#">62.7251, -0.3798, 38.6220</a>

# Details

The CIELCh color **69, 72.290, 87.322** 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, 99.072, 302.351**, and the grayscale version is **65, 0.008, 296.813**.

A 20% lighter version of the original color is **88, 70.813, 91.285**, and **49, 55.736, 85.349** is the 20% darker color. If you saturate the color by 10%, you get **69, 72.367, 87.262**, and if you desaturate by 10%, it is **70, 70.124, 88.867**.

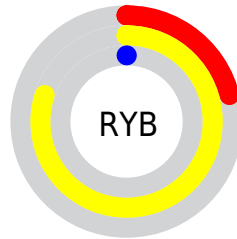
# Distribution



Red (80%)

Green (64%)

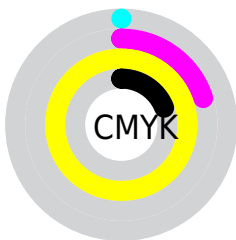
Blue (0%)



Red (21%)

Yellow (80%)

Blue (0%)

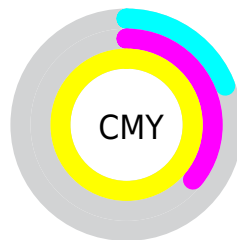


Cyan (0%)

Magenta (20%)

Yellow (100%)

Black (19%)



Cyan (19%)

Magenta (36%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 69, 72.290, 87.322 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 69, 72.290, 87.322 by changing the saturation by 10% instead.



 69, 72.290, 87.322

 69, 72.290, 87.322

 100, 72.290,  
87.322

 59, 72.290, 87.322

 89, 72.290, 87.322

 49, 72.290, 87.322

 99, 72.290, 87.322

 39, 72.290, 87.322

 29, 72.290, 87.322

 19, 72.290, 87.322

 9, 72.290, 87.322

 0, 72.290, 87.322

 69, 72.290, 87.322

 69, 72.290, 87.322

 69, 72.367, 87.262

 70, 70.124, 88.867

71, 65.781, 90.274

73, 59.487, 91.594

74, 51.922, 92.874

75, 43.626, 94.134

77, 34.955, 95.378

78, 26.122, 96.603

79, 17.251, 97.801

81, 8.410, 98.962

# Harmonies

# Complementary

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



69, 72.290, 87.322



30, 99.072, 302.351

# Rectangle

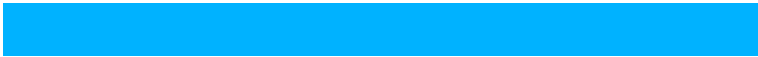
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



69, 72.290, 87.322



69, 72.290, 137.322



69, 72.290, 267.322



69, 72.290, 317.322

# Sweetspot

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



69, 72.289, 87.324



94, 31.570, 96.507



43, 78.161, 28.406



50, 21.546, 95.986



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



69, 72.289, 87.324



84, 85.095, 87.033



76, 86.339, 119.125



42, 4.945, 98.984



57, 61.791, 87.534



12, 17.417, 91.501





# Inverse Universe

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



30, 99.072, 302.351



37, 118.311, 302.765



28, 110.500, 308.054



40, 5.000, 281.211



23, 83.665, 302.039

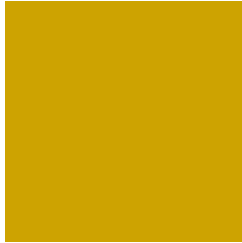


3, 20.215, 286.781



# Previews

## White Background



This preview shows how the CIELCh color 69, 72.290, 87.322 looks on a white background.

## Color Contrast Check

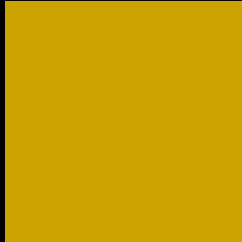
Large Text (above 18pt) WCAG AA × Fail

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 69, 72.290, 87.322 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 69, 72.290, 87.322

## Background



This preview shows how black text looks on a background with the CIELCh color 69, 72.290, 87.322.

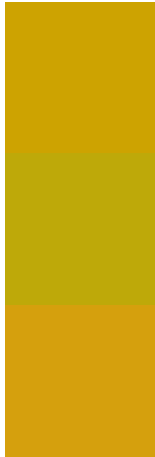


This preview shows how white text looks on a background with the CIELCh color 69, 72.290, 87.322.

# 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, 72.165, 87.309

### Protanopia

69, 70.804, 95.175

### Deuteranopia

69, 71.546, 83.045



**Tritanopia**  
69, 25.049, 8.155



# Trichromacy



**Original Color**  
69, 72.165, 87.309

**Protanomaly**  
69, 71.210, 92.167

**Deuteranomaly**  
69, 71.662, 84.587

**Tritanomaly**  
68, 37.972, 67.669

# Monochromacy



**Original Color**  
69, 72.165, 87.309

**Achromatopsia**  
65, 0.008, 296.813

**Achromatomaly**  
66, 32.972, 94.517

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 69, 72.290, 87.322 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(205, 163, 1)` looks like.

```
.text, #text, p{  
    color:rgb(205, 163, 1)  
}
```

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(205, 163, 1) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(205, 163, 1) }
```

## Border

The CSS property to change the border of an element to CIELCh 69, 72.290, 87.322 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(205, 163, 1) }
```

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

```
.border{ border-color:rgb(205, 163, 1) }
```

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

Here you see how a box with a 4 pixel `rgb(205, 163, 1)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(205, 163, 1); -webkit-box-  
shadow:4px 4px 4px 4px rgb(205, 163, 1);  
box-shadow:4px 4px 4px 4px rgb(205, 163,  
1) }
```

# Background

The CSS property to change the background color of an element to CIELCh 69, 72.290, 87.322 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(205, 163, 1) }
```

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

```
.background{ background-color: rgb(205,  
163, 1) }
```

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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