

# Converting Colors

CIELCh(65, 69.947, 83.753)

Have a look what the booklet for  
CIELCh(65, 69.947, 83.753) contains.

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# Color

**CIELCh(65, 69.612, 83.644)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C79600
RGB	199, 150, 0
RGB Percent	78%, 59%, 0%
CMY	0.2187, 0.4110, 0.9982
CMYK	0.00, 0.25, 1.00, 0.22
HSL	45°, 100%, 39%
HSV	45°, 100%, 78%
XYZ	34.5513, 34.0472, 4.7632
YIQ	147.5510, 77.3540, -36.2620

# Conversions

## Conversions Part 2

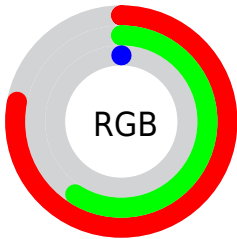
<b>Format</b>	<b>Color</b>
<b>RYB</b>	65, 199, 0
Decimal	13080064
CIELab	65.00, 7.71, 69.18
CIELCh	65, 69.612, 83.644
Yxy	34.0472, 0.4710, 0.4641
Android (android.graphics.Color)	4291270144 (0xFFC79600)
YUV	147.5510, -72.7426, 45.1208
Hunter-Lab	58.3500, 3.5846, 36.0050

# Details

The CIELCh color **65, 69.612, 83.644** 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, 92.234, 300.838**, and the grayscale version is **61, 0.008, 296.813**.

A 20% lighter version of the original color is **84, 68.674, 85.477**, and **45, 53.237, 80.705** is the 20% darker color. If you saturate the color by 10%, you get **65, 69.660, 83.606**, and if you desaturate by 10%, it is **66, 67.274, 85.476**.

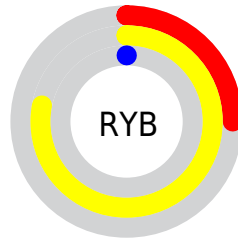
# Distribution



Red (78%)

Green (59%)

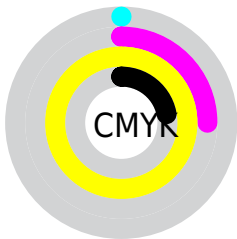
Blue (0%)



Red (25%)

Yellow (78%)

Blue (0%)

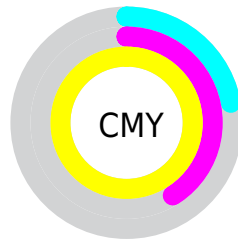


Cyan (0%)

Magenta (25%)

Yellow (100%)

Black (22%)



Cyan (22%)

Magenta (41%)

Yellow (100%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 65, 69.612, 83.644 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, 69.612, 83.644 by changing the saturation by 10% instead.



 65, 69.612, 83.644

 65, 69.612, 83.644

 100, 69.612,  
83.644

 55, 69.612, 83.644

 85, 69.612, 83.644

 45, 69.612, 83.644

 95, 69.612, 83.644

 35, 69.612, 83.644

 25, 69.612, 83.644

 15, 69.612, 83.644

 5, 69.612, 83.644

 0, 69.612, 83.644

 65, 69.612, 83.644

 65, 69.612, 83.644

 65, 69.660, 83.606

 66, 67.274, 85.476

68, 62.880, 87.093

69, 56.657, 88.555

70, 49.293, 89.936

72, 41.309, 91.272

74, 33.036, 92.576

75, 24.666, 93.851

77, 16.305, 95.093

79, 8.009, 96.291

# Harmonies

# Complementary

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



65, 69.612, 83.644



30, 92.234, 300.838

# Rectangle

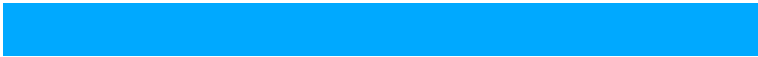
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



65, 69.612, 83.644



65, 69.612, 133.644



65, 69.612, 263.644



65, 69.612, 313.644

# Sweetspot

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



65, 69.611, 83.647



94, 30.374, 93.768



42, 74.856, 25.679



49, 20.751, 93.225



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, 69.611, 83.647



81, 83.795, 83.276



74, 83.623, 117.422



41, 4.639, 96.336



54, 60.145, 83.928



10, 15.212, 88.088





# Inverse Universe

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



30, 92.234, 300.838



39, 112.853, 301.324



26, 108.641, 307.691



39, 4.676, 278.633



24, 78.622, 300.459



3, 17.879, 284.386



# Previews

## White Background



This preview shows how the CIELCh color 65, 69.612, 83.644 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 65, 69.612, 83.644 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, 69.612, 83.644

## Background



This preview shows how black text looks on a background with the CIELCh color 65, 69.612, 83.644.



This preview shows how white text looks on a background with the CIELCh color 65, 69.612, 83.644.

# 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, 69.612, 83.644

### Protanopia

65, 67.220, 95.505

### Deuteranopia

65, 69.243, 83.201



**Tritanopia**  
65, 26.950, 10.568



# Trichromacy



**Original Color**  
65, 69.612, 83.644

**Protanomaly**  
65, 67.766, 91.093

**Deuteranomaly**  
65, 69.379, 83.223

**Tritanomaly**  
65, 38.531, 63.259

# Monochromacy



**Original Color**  
65, 69.612, 83.644

**Achromatopsia**  
61, 0.008, 296.813

**Achromatomaly**  
62, 31.457, 92.141

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 65, 69.612, 83.644 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(199, 150, 0)` looks like.

```
.text, #text, p{  
    color:rgb(199, 150, 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(199, 150, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(199, 150, 0) }
```

## Border

The CSS property to change the border of an element to CIELCh 65, 69.612, 83.644 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(199, 150, 0) }
```

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

```
.border{ border-color:rgb(199, 150, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(199, 150, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(199, 150, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(199, 150, 0);  
box-shadow:4px 4px 4px 4px rgb(199, 150,  
0) }
```

# Background

The CSS property to change the background color of an element to CIELCh 65, 69.612, 83.644 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(199, 150, 0) }
```

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

```
.background{ background-color: rgb(199,  
150, 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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