

# Converting Colors

CIELCh(69, 74.671, 78.470)

Have a look what the booklet for  
CIELCh(69, 74.671, 78.470) contains.

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**Color**

**CIELCh(69, 74.809, 78.394)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DF9C00
RGB	223, 156, 0
RGB Percent	87%, 61%, 0%
CMY	0.1265, 0.3891, 1.0000
CMYK	0.00, 0.30, 1.00, 0.13
HSL	42°, 100%, 44%
HSV	42°, 100%, 87%
XYZ	42.1960, 39.3444, 5.3541
YIQ	158.2490, 90.0080, -34.3120

# Conversions

## Conversions Part 2

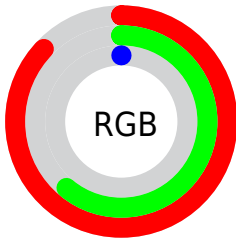
Format	Color
R <sub>Y</sub> B	96, 223, 0
Decimal	14654464
CIE Lab	69.00, 15.05, 73.28
CIE LCh	69, 74.809, 78.394
Yxy	39.3444, 0.4856, 0.4528
Android (android.graphics.Color)	4292844544 (0xFFDF9C00)
YUV	158.2490, -78.0168, 56.7866
Hunter-Lab	62.7251, 10.3103, 38.8467

# Details

The CIELCh color **69, 74.809, 78.394** 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 **37, 94.015, 298.739**, and the grayscale version is **65, 0.008, 296.813**.

A 20% lighter version of the original color is **86, 69.220, 87.985**, and **49, 58.756, 74.222** is the 20% darker color. If you saturate the color by 10%, you get **69, 74.739, 78.382**, and if you desaturate by 10%, it is **71, 72.104, 80.635**.

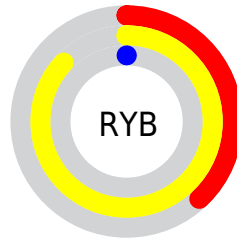
# Distribution



Red (87%)

Green (61%)

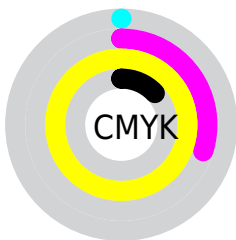
Blue (0%)



Red (38%)

Yellow (87%)

Blue (0%)

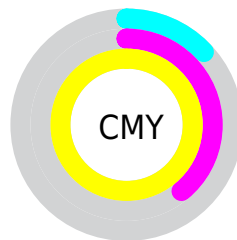


Cyan (0%)

Magenta (30%)

Yellow (100%)

Black (13%)



Cyan (13%)

Magenta (39%)

Yellow (100%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 69, 74.809, 78.394 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, 74.809, 78.394 by changing the saturation by 10% instead.



 69, 74.809, 78.394

 69, 74.809, 78.394

 100, 74.809,  
78.394

 59, 74.809, 78.394

 89, 74.809, 78.394

 49, 74.809, 78.394

 99, 74.809, 78.394

 39, 74.809, 78.394

 29, 74.809, 78.394

 19, 74.809, 78.394

 9, 74.809, 78.394

 0, 74.809, 78.394

 69, 74.809, 78.394

 69, 74.809, 78.394

 69, 74.739, 78.382

 71, 72.104, 80.635

72, 67.158, 82.538

74, 60.257, 84.184

76, 52.208, 85.691

78, 43.593, 87.123

80, 34.763, 88.505

82, 25.910, 89.848

84, 17.136, 91.151

86, 8.490, 92.404

# Harmonies

# Complementary

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



69, 74.809, 78.394



37, 94.015, 298.739

# Rectangle

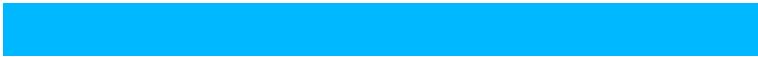
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



69, 74.809, 78.394



69, 74.809, 128.394



69, 74.809, 258.394



69, 74.809, 308.394

# Sweetspot

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



69, 74.739, 78.382



93, 28.920, 89.818



47, 78.858, 20.353



48, 19.788, 89.252



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, 74.739, 78.382



78, 82.756, 78.166



83, 89.492, 113.907



46, 4.847, 92.471



55, 62.717, 78.824



14, 21.277, 81.832





# Inverse Universe

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



37, 94.015, 298.739



42, 104.936, 298.994



29, 119.369, 307.048



44, 4.862, 274.897



29, 77.577, 298.201



5, 24.940, 287.990



# Previews

## White Background



This preview shows how the CIELCh color 69, 74.809, 78.394 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, 74.809, 78.394 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, 74.809, 78.394

## Background



This preview shows how black text looks on a background with the CIELCh color 69, 74.809, 78.394.



This preview shows how white text looks on a background with the CIELCh color 69, 74.809, 78.394.

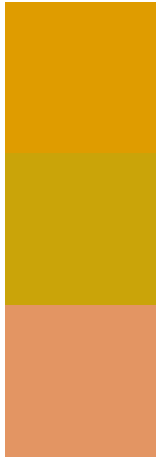
# Color Blindness Simulation

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



# Trichromacy



**Original Color**  
69, 74.809, 78.394

**Protanomaly**  
69, 70.941, 88.701

**Tritanomaly**  
69, 45.321, 57.554

# Monochromacy



**Original Color**  
69, 74.809, 78.394

**Achromatopsia**  
65, 0.008, 296.813

**Achromatomaly**  
66, 32.673, 87.334



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 69, 74.809, 78.394 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(223, 156, 0)` looks like.

```
.text, #text, p{  
    color:rgb(223, 156, 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(223, 156, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(223, 156, 0) }
```

## Border

The CSS property to change the border of an element to CIELCh 69, 74.809, 78.394 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(223, 156, 0) }
```

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

```
.border{ border-color:rgb(223, 156, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(223, 156, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(223, 156, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(223, 156, 0);  
box-shadow:4px 4px 4px 4px rgb(223, 156,  
0) }
```

# Background

The CSS property to change the background color of an element to CIELCh 69, 74.809, 78.394 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(223, 156, 0) }
```

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

```
.background{ background-color: rgb(223,  
156, 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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