

# Converting Colors

CIELCh(69, 64.046, 93.405)

Have a look what the booklet for  
CIELCh(69, 64.046, 93.405) contains.

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# Color

**CIELCh(69, 64.098, 93.420)**

# Conversions

## Conversions Part 1

Format	Color
Hex	C1A828
RGB	193, 168, 40
RGB Percent	76%, 66%, 16%
CMY	0.2444, 0.3423, 0.8445
CMYK	0.00, 0.13, 0.79, 0.24
HSL	50°, 66%, 46%
HSV	50°, 79%, 76%
XYZ	36.2370, 39.3444, 7.6613
YIQ	160.8830, 55.9880, -34.5080

# Conversions

## Conversions Part 2

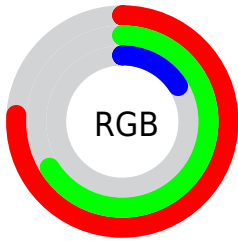
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">70, 193, 40</a>
Decimal	<a href="#">12691496</a>
CIELab	<a href="#">69.00, -3.82, 63.98</a>
CIElCh	<a href="#">69, 64.098, 93.420</a>
Yxy	<a href="#">39.3444, 0.4353, 0.4726</a>
Android (android.graphics.Color)	<a href="#">4290881576</a> ( <a href="#">0xFFC1A828</a> )
YUV	<a href="#">160.8830, -59.5953, 28.1666</a>
Hunter-Lab	<a href="#">62.7251, -6.6475, 36.6658</a>

# Details

The CIELCh color **69, 64.098, 93.420** is a dark color, and the websafe version is hex **999900**. The color can be described as middle muted orange. A complement of this color would be **34, 78.719, 298.401**, and the grayscale version is **66, 0.008, 296.813**.

A 20% lighter version of the original color is **89, 63.984, 93.425**, and **49, 55.035, 93.115** is the 20% darker color. If you saturate the color by 10%, you get **68, 68.234, 92.251**, and if you desaturate by 10%, it is **70, 58.090, 94.577**.

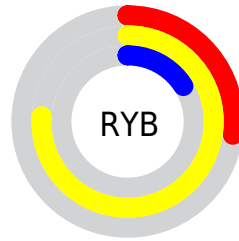
# Distribution



Red (76%)

Green (66%)

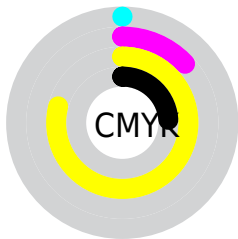
Blue (16%)



Red (27%)

Yellow (76%)

Blue (16%)

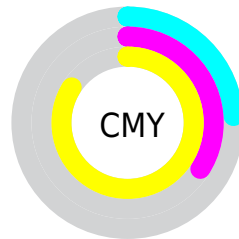


Cyan (0%)

Magenta (13%)

Yellow (79%)

Black (24%)



Cyan (24%)

Magenta (34%)

Yellow (84%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 69, 64.098, 93.420 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, 64.098, 93.420 by changing the saturation by 10% instead.



 69, 64.098, 93.420

 69, 64.098, 93.420

 100, 64.098,  
93.420

 59, 64.098, 93.420

 89, 64.098, 93.420

 49, 64.098, 93.420

 99, 64.098, 93.420

 39, 64.098, 93.420

 29, 64.098, 93.420

 19, 64.098, 93.420

 9, 64.098, 93.420

 0, 64.098, 93.420

 69, 64.098, 93.420

 69, 64.098, 93.420

 68, 68.234, 92.251

 70, 58.090, 94.577

67, 70.344, 91.034

71, 50.818, 95.736

67, 70.454, 90.963

72, 42.785, 96.902

73, 34.333, 98.071

74, 25.674, 99.232

75, 16.936,  
100.375

77, 8.192, 101.488

78, 0.517, 282.851

79, 9.166, 283.658

# Harmonies

# Complementary

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



69, 64.098, 93.420



34, 78.719, 298.401

# Rectangle

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



69, 64.098, 93.420



69, 64.098, 143.420



69, 64.098, 273.420



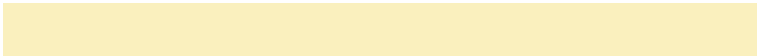
69, 64.098, 323.420

# Sweetspot

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



69, 64.098, 93.423



94, 25.871, 99.811



43, 64.669, 22.082



50, 17.771, 99.398



99, 0.012, 296.813



52, 0.007, 296.813



# Same Dimension

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



69, 64.098, 93.423



86, 84.838, 91.387



72, 75.463, 119.973



40, 4.955, 101.493



57, 61.648, 91.144



10, 15.193, 96.128





# Inverse Universe

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



34, 78.719, 298.401



37, 116.347, 302.893



33, 90.681, 308.685



38, 5.024, 283.626



21, 85.258, 303.296



2, 17.250, 286.353



# Previews

## White Background



This preview shows how the CIELCh color 69, 64.098, 93.420 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 69, 64.098, 93.420 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, 64.098, 93.420

## Background



This preview shows how black text looks on a background with the CIELCh color 69, 64.098, 93.420.

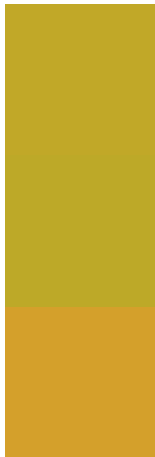


This preview shows how white text looks on a background with the CIELCh color 69, 64.098, 93.420.

# 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, 64.098, 93.420

### Protanopia

69, 64.041, 95.480

### Deuteranopia

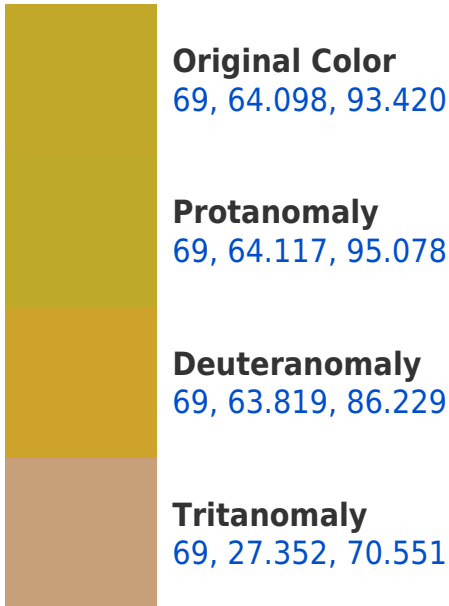
69, 64.223, 82.029



**Tritanopia**  
69, 18.963, 1.101



# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 69, 64.098, 93.420 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(193, 168, 40)` looks like.

```
.text, #text, p{  
    color:rgb(193, 168, 40)  
}
```

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(193, 168, 40) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(193, 168, 40) }
```

## Border

The CSS property to change the border of an element to CIELCh 69, 64.098, 93.420 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(193, 168, 40) }
```

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

```
.border{ border-color:rgb(193, 168, 40) }
```

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

Here you see how a box with a 4 pixel rgb(193, 168, 40) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(193, 168, 40); -webkit-box-  
shadow:4px 4px 4px 4px rgb(193, 168, 40);  
box-shadow:4px 4px 4px 4px rgb(193, 168,  
40) }
```

# Background

The CSS property to change the background color of an element to CIELCh 69, 64.098, 93.420 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(193, 168, 40) }
```

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

```
.background{ background-color: rgb(193,  
168, 40) }
```

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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