

# Converting Colors

CIELCh(75, 31.969, 106.604)

Have a look what the booklet for  
CIELCh(75, 31.969, 106.604)  
contains.

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**Color**

**CIELCh(75, 31.848, 106.381)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BDBC80
RGB	189, 188, 128
RGB Percent	74%, 74%, 50%
CMY	0.2593, 0.2632, 0.4985
CMYK	0.00, 0.01, 0.32, 0.26
HSL	59°, 32%, 62%
HSV	59°, 32%, 74%
XYZ	42.8063, 48.2781, 27.4477
YIQ	181.4590, 19.8560, -18.4480

# Conversions

## Conversions Part 2

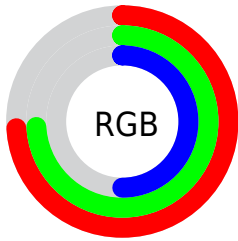
<b>Format</b>	<b>Color</b>
<b>RYB</b>	129, 189, 128
Decimal	12434560
CIELab	75.00, -8.98, 30.56
CIELCh	75, 31.848, 106.381
Yxy	48.2781, 0.3611, 0.4073
Android (android.graphics.Color)	4290624640 (0xFFBDBC80)
YUV	181.4590, -26.3553, 6.6135
Hunter-Lab	69.4824, -11.6253, 25.2163

# Details

The CIELCh color **75, 31.848, 106.381** is a light color, and the websafe version is hex **CCCC99**. A complement of this color would be **56, 34.375, 293.583**, and the grayscale version is **74, 0.009, 296.813**.

A 20% lighter version of the original color is **95, 31.970, 106.279**, and **55, 31.869, 106.267** is the 20% darker color. If you saturate the color by 10%, you get **75, 41.322, 105.435**, and if you desaturate by 10%, it is **75, 22.111, 107.357**.

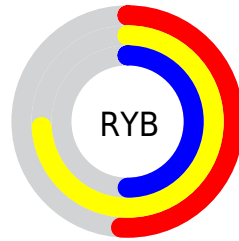
# Distribution



Red (74%)

Green (74%)

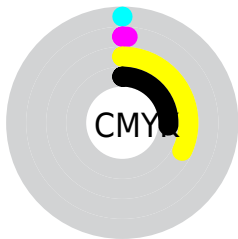
Blue (50%)



Red (51%)

Yellow (74%)

Blue (50%)

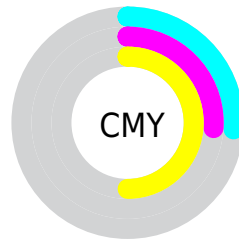


Cyan (0%)

Magenta (1%)

Yellow (32%)

Black (26%)



Cyan (26%)

Magenta (26%)


Yellow (50%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 75, 31.848, 106.381 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 75, 31.848, 106.381 by changing the saturation by 10% instead.





 75, 31.848,  
106.381


 75, 31.848,  
106.381


 100, 31.848,  
106.381


 65, 31.848,  
106.381


 95, 31.848,  
106.381

 55, 31.848,  
106.381

 45, 31.848,  
106.381

 35, 31.848,  
106.381

 25, 31.848,  
106.381

 15, 31.848,  
106.381

 5, 31.848, 106.381

0, 31.848, 106.381

75, 31.848,  
106.381

75, 31.848,  
106.381

75, 41.322,  
105.435

75, 22.111,  
107.357

74, 50.344,  
104.532

76, 12.227,  
108.333

74, 58.631,  
103.705

76, 2.274, 109.277

77, 7.699, 290.263

74, 65.789,  
102.990

78, 17.659,  
291.177

74, 71.334,  
102.422

78, 27.584,  
292.059

74, 74.848,  
102.029

79, 34.742,

■ 73, 76.403,  
101.822

292.629

■ 79, 34.568,  
292.448

■ 79, 34.395,  
292.264

# Harmonies

# Complementary

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



75, 31.848, 106.381



56, 34.375, 293.583

# Rectangle

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



75, 31.848, 106.381



75, 31.848, 156.381



75, 31.848, 286.381



75, 31.848, 336.381

# Sweetspot

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



75, 31.849, 106.385



96, 12.285, 108.539



60, 25.424, 20.907



51, 8.377, 108.403



98, 0.011, 296.813



51, 0.007, 296.813





# Same Dimension

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



75, 31.849, 106.385



94, 47.181, 105.684



73, 34.597, 126.975



40, 5.636, 108.617



62, 66.990, 101.836



11, 16.550, 106.794



# Inverse Universe

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



56, 34.375, 293.583



66, 52.054, 294.831



58, 36.258, 310.090



36, 5.756, 290.497



18, 92.809, 306.050



1, 17.231, 290.189



# Previews

## White Background



This preview shows how the CIELCh color 75, 31.848, 106.381 looks on a white background.

## Color Contrast Check

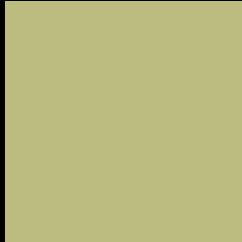
Large Text (above 18pt) WCAG AA × Fail

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 75, 31.848, 106.381 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

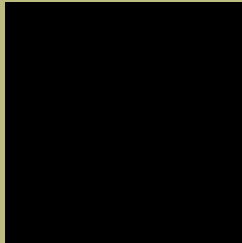
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

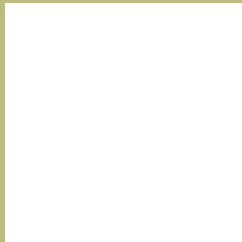
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 75, 31.848, 106.381**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 75, 31.848, 106.381.



This preview shows how white text looks on a background with the CIELCh color 75, 31.848, 106.381.

# 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

75, 31.848, 106.381


### Protanopia

75, 31.668, 95.006

### Deuteranopia

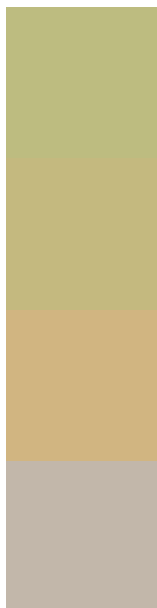
75, 31.396, 72.540





**Tritanopia**  
75, 9.860, 330.212

# Trichromacy



**Original Color**  
75, 31.848, 106.381

**Protanomaly**  
75, 31.241, 98.777

**Deuteranomaly**  
75, 30.345, 84.753

**Tritanomaly**  
75, 8.168, 78.209

# Monochromacy



**Original Color**  
75, 31.848, 106.381

**Achromatopsia**  
74, 0.009, 296.813

**Achromatomaly**  
74, 11.834, 109.035

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 75, 31.848, 106.381 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(189, 188, 128)` looks like.

```
.text, #text, p{  
    color:rgb(189, 188, 128)  
}
```

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(189, 188, 128) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(189, 188, 128) }
```

## Border

The CSS property to change the border of an element to CIELCh 75, 31.848, 106.381 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(189, 188, 128) }
```

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

```
.border{ border-color:rgb(189, 188, 128) }
```

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

Here you see how a box with a 4 pixel `rgb(189, 188, 128)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(189, 188, 128); -webkit-box-  
shadow:4px 4px 4px 4px rgb(189, 188, 128);  
box-shadow:4px 4px 4px 4px rgb(189, 188,  
128) }
```

# Background

The CSS property to change the background color of an element to CIELCh 75, 31.848, 106.381 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(189, 188, 128) }
```

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

```
.background{ background-color: rgb(189,  
188, 128) }
```

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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