

# Converting Colors

CIELCh(77, 31.243, 110.978)

Have a look what the booklet for  
CIELCh(77, 31.243, 110.978)  
contains.

<b>CIELCh(77, 31.217, 110.990)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	21
<b><i>Color Blindness Simulation</i></b> .....	24
<b><i>CSS Examples</i></b> .....	27

**Color**

**CIELCh(77, 31.217, 110.990)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BEC388
RGB	190, 195, 136
RGB Percent	75%, 76%, 53%
CMY	0.2564, 0.2367, 0.4680
CMYK	0.03, 0.00, 0.30, 0.24
HSL	65°, 33%, 65%
HSV	65°, 30%, 76%
XYZ	44.9938, 51.5317, 30.7372
YIQ	186.7790, 15.9590, -19.4090

# Conversions

## Conversions Part 2

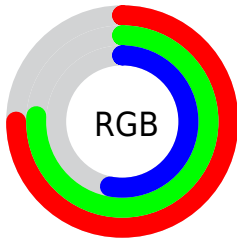
<b>Format</b>	<b>Color</b>
<b>RYB</b>	136, 195, 141
Decimal	12501896
CIELab	77.00, -11.18, 29.15
CIELCh	77, 31.217, 110.990
Yxy	51.5317, 0.3536, 0.4049
Android (android.graphics.Color)	4290691976 (0xFFBEC388)
YUV	186.7790, -25.0340, 2.8248
Hunter-Lab	71.7856, -13.7446, 24.8631

# Details

The CIELCh color **77, 31.217, 110.990** is a light color, and the websafe version is hex **CCCC99**. A complement of this color would be **59, 33.561, 296.671**, and the grayscale version is **76, 0.009, 296.813**.

A 20% lighter version of the original color is **97, 31.357, 111.254**, and **57, 31.228, 110.504** is the 20% darker color. If you saturate the color by 10%, you get **77, 41.140, 110.183**, and if you desaturate by 10%, it is **77, 21.036, 111.827**.

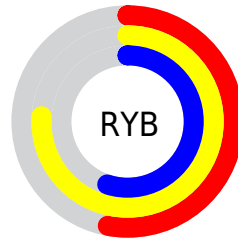
# Distribution



Red (75%)

Green (76%)

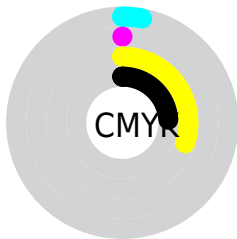
Blue (53%)



Red (53%)

Yellow (76%)

Blue (55%)

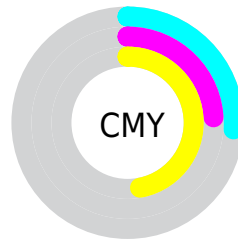


Cyan (3%)

Magenta (0%)

Yellow (30%)

Black (24%)



Cyan (26%)

Magenta (24%)


Yellow (47%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 77, 31.217, 110.990 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 77, 31.217, 110.990 by changing the saturation by 10% instead.





 77, 31.217,  
110.990

 77, 31.217,  
110.990


 100, 31.217,  
110.990


 67, 31.217,  
110.990


 97, 31.217,  
110.990

 57, 31.217,  
110.990

 47, 31.217,  
110.990

 37, 31.217,  
110.990

 27, 31.217,  
110.990

 17, 31.217,  
110.990

 7, 31.217, 110.990

■ 0, 31.217, 110.990

■ 77, 31.217,  
110.990

■ 77, 31.217,  
110.990

■ 77, 41.140,  
110.183

■ 77, 21.036,  
111.827

■ 76, 50.620,  
109.425

■ 78, 10.707,  
112.663

■ 76, 59.393,  
108.761

■ 79, 0.308, 113.390

■ 76, 67.076,  
108.241

■ 79, 10.109,  
294.296

■ 75, 73.194,  
107.929

■ 80, 20.508,  
295.066

■ 75, 77.302,  
107.882

■ 81, 30.866,  
295.802

■ 75, 79.502,  
108.074

■ 81, 32.259,  
296.719

■ 81, 32.302,  
297.669

■ 81, 32.354,  
298.621

# Harmonies

# Complementary

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



77, 31.217, 110.990



59, 33.561, 296.671

# Rectangle

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



77, 31.217, 110.990



77, 31.217, 160.990



77, 31.217, 290.990



77, 31.217, 340.990

# Sweetspot

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



77, 31.219, 110.993



98, 11.551, 112.760



64, 22.605, 28.433



53, 8.091, 112.637



0, 0.000, 0.000



53, 0.007, 296.813



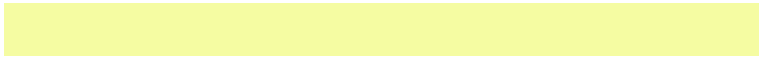


# Same Dimension

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



77, 31.219, 110.993



97, 45.564, 110.482



75, 34.190, 130.553



41, 5.870, 112.741



63, 68.952, 108.003



12, 18.725, 111.887



# Inverse Universe

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



59, 33.561, 296.671



70, 49.879, 297.520



62, 35.367, 313.272



37, 5.998, 294.341



19, 94.255, 306.592



1, 19.513, 293.431



# Previews

## White Background



This preview shows how the CIELCh color 77, 31.217, 110.990 looks on a white background.

## Color Contrast Check

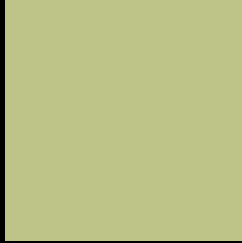
Large Text (above 18pt) WCAG AA × Fail

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 77, 31.217, 110.990 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

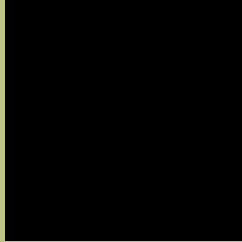
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 77, 31.217, 110.990

## Background



This preview shows how black text looks on a background with the CIELCh color 77, 31.217, 110.990.



This preview shows how white text looks on a background with the CIELCh color 77, 31.217, 110.990.

# 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**  
77, 31.217, 110.990

**Protanopia**  
77, 30.379, 95.617

**Deuteranopia**  
77, 29.866, 71.166





**Tritanopia**  
77, 9.217, 319.116

# Trichromacy



**Original Color**  
77, 31.217, 110.990

**Protanomaly**  
77, 30.320, 101.908

**Deuteranomaly**  
77, 28.670, 86.535

**Tritanomaly**  
77, 6.801, 89.954

# Monochromacy



**Original Color**  
77, 31.217, 110.990

**Achromatopsia**  
76, 0.009, 296.813

**Achromatomaly**  
76, 11.276, 113.020

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 77, 31.217, 110.990 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(190, 195, 136)` looks like.

```
.text, #text, p{  
    color:rgb(190, 195, 136)  
}
```

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(190, 195, 136) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(190, 195, 136) }
```

## Border

The CSS property to change the border of an element to CIELCh 77, 31.217, 110.990 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(190, 195, 136) }
```

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

```
.border{ border-color:rgb(190, 195, 136) }
```

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

Here you see how a box with a 4 pixel `rgb(190, 195, 136)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(190, 195, 136); -webkit-box-  
shadow:4px 4px 4px 4px rgb(190, 195, 136);  
box-shadow:4px 4px 4px 4px rgb(190, 195,  
136) }
```

# Background

The CSS property to change the background color of an element to CIELCh 77, 31.217, 110.990 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(190, 195, 136) }
```

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

```
.background{ background-color: rgb(190,  
195, 136) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor