

# Converting Colors

CIELCh(70, 13.742, 89.650)

Have a look what the booklet for  
CIELCh(70, 13.742, 89.650) contains.

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# **Color**

**CIELCh(70, 13.804, 90.214)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B5AA92
RGB	181, 170, 146
RGB Percent	71%, 67%, 57%
CMY	0.2894, 0.3326, 0.4267
CMYK	0.00, 0.06, 0.19, 0.29
HSL	41°, 19%, 64%
HSV	41°, 19%, 71%
XYZ	38.7149, 40.7494, 33.0952
YIQ	170.5530, 14.2600, -5.1320

# Conversions

## Conversions Part 2

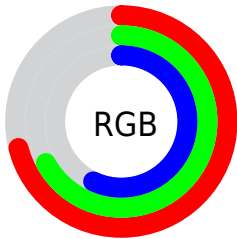
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	162, 181, 146
Decimal	11905682
CIE Lab	70.00, -0.05, 13.80
CIE LCh	70, 13.804, 90.214
Yxy	40.7494, 0.3440, 0.3620
Android (android.graphics.Color)	4290095762 (0xFFB5AA92)
YUV	170.5530, -12.1046, 9.1620
Hunter-Lab	63.8353, -3.4547, 13.9460

# Details

The CIELCh color **70, 13.804, 90.214** is a light color, and the websafe version is hex **999999**. A complement of this color would be **65, 13.808, 275.306**, and the grayscale version is **70, 0.009, 296.813**.

A 20% lighter version of the original color is **90, 13.696, 89.859**, and **50, 14.084, 90.358** is the 20% darker color. If you saturate the color by 10%, you get **68, 21.138, 88.931**, and if you desaturate by 10%, it is **72, 6.593, 91.462**.

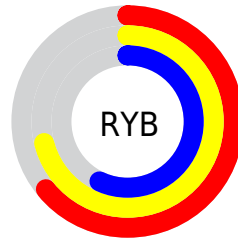
# Distribution



Red (71%)

Green (67%)

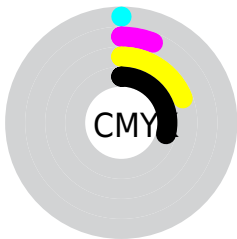
Blue (57%)



Red (64%)

Yellow (71%)

Blue (57%)

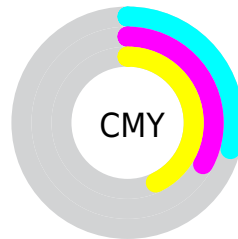


Cyan (0%)

Magenta (6%)

Yellow (19%)

Black (29%)



Cyan (29%)

Magenta (33%)

Yellow (43%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 70, 13.804, 90.214 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 70, 13.804, 90.214 by changing the saturation by 10% instead.



 70, 13.804, 90.214

 70, 13.804, 90.214

 100, 13.804,  
90.214

 60, 13.804, 90.214

 90, 13.804, 90.214

 50, 13.804, 90.214

 40, 13.804, 90.214

 30, 13.804, 90.214

 20, 13.804, 90.214

 10, 13.804, 90.214

 0, 13.804, 90.214

 70, 13.804, 90.214

 70, 13.804, 90.214

 68, 21.138, 88.931

 72, 6.593, 91.462

66, 28.557, 87.600

74, 0.485, 273.142

65, 35.991, 86.228

76, 7.430, 273.898

63, 43.298, 84.809

78, 14.246,  
274.998

61, 50.218, 83.316

80, 20.940,  
276.056

60, 56.310, 81.690

58, 60.928, 79.821

82, 27.521,  
277.064

57, 63.777, 77.633

84, 25.114,  
270.845

56, 63.970, 77.488

85, 23.011,  
263.419

87, 21.355,  
254.758

# Harmonies

# Complementary

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



70, 13.804, 90.214



65, 13.808, 275.306

# Rectangle

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



70, 13.804, 90.214



70, 13.804, 140.214



70, 13.804, 270.214



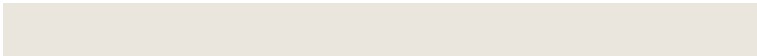
70, 13.804, 320.214

# Sweetspot

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



70, 13.805, 90.223



91, 5.217, 91.840



64, 14.973, 356.723



48, 3.460, 91.767



96, 0.011, 296.813



49, 0.007, 296.813



# Same Dimension

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



70, 13.805, 90.223



87, 20.350, 89.703



72, 19.041, 116.008



38, 4.051, 91.458



49, 57.180, 77.834



7, 9.869, 82.485





# Inverse Universe

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



65, 13.808, 275.306



80, 20.352, 275.972



62, 19.846, 298.863



36, 4.059, 273.848



25, 68.707, 297.158

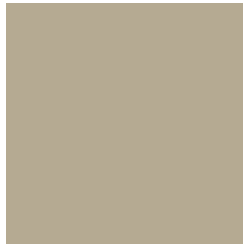


2, 11.999, 278.659



# Previews

## White Background



This preview shows how the CIELCh color 70, 13.804, 90.214 looks on a white background.

## Color Contrast Check

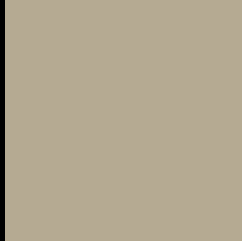
Large Text (above 18pt) WCAG AA × Fail

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 70, 13.804, 90.214 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

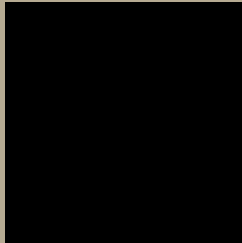
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 70, 13.804, 90.214

## Background



This preview shows how black text looks on a background with the CIELCh color 70, 13.804, 90.214.



This preview shows how white text looks on a background with the CIELCh color 70, 13.804, 90.214.

# 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

70, 13.804, 90.214

### Protanopia

70, 14.078, 93.962

### Deuteranopia

70, 16.041, 57.663



**Tritanopia**  
70, 10.107, 335.606



# Trichromacy



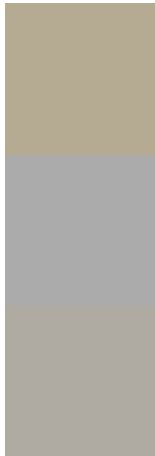
**Original Color**  
70, 13.804, 90.214

**Protanomaly**  
70, 14.078, 93.962

**Deuteranomaly**  
70, 14.651, 67.679

**Tritanomaly**  
70, 6.176, 24.913

# Monochromacy



**Original Color**  
70, 13.804, 90.214

**Achromatopsia**  
70, 0.009, 296.813

**Achromatomaly**  
70, 5.131, 92.189

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 70, 13.804, 90.214 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(181, 170, 146)` looks like.

```
.text, #text, p{  
    color:rgb(181, 170, 146)  
}
```

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(181, 170, 146) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(181, 170, 146) }
```

## Border

The CSS property to change the border of an element to CIELCh 70, 13.804, 90.214 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(181, 170, 146) }
```

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

```
.border{ border-color:rgb(181, 170, 146) }
```

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

Here you see how a box with a 4 pixel `rgb(181, 170, 146)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(181, 170, 146); -webkit-box-  
shadow:4px 4px 4px 4px rgb(181, 170, 146);  
box-shadow:4px 4px 4px 4px rgb(181, 170,  
146) }
```

# Background

The CSS property to change the background color of an element to CIELCh 70, 13.804, 90.214 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(181, 170, 146) }
```

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

```
.background{ background-color: rgb(181,  
170, 146) }
```

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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