

# Converting Colors

CIELCh(72, 12.175, 89.489)

Have a look what the booklet for  
CIELCh(72, 12.175, 89.489) contains.

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# **Color**

**CIELCh(72, 12.554, 90.618)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BAB09A
RGB	186, 176, 154
RGB Percent	73%, 69%, 60%
CMY	0.2718, 0.3110, 0.3972
CMYK	0.00, 0.05, 0.17, 0.27
HSL	41°, 19%, 67%
HSV	41°, 17%, 73%
XYZ	41.4522, 43.6590, 36.6872
YIQ	176.4820, 13.0220, -4.7220

# Conversions

## Conversions Part 2

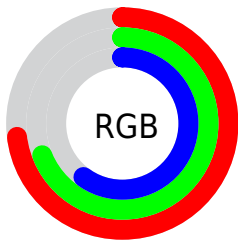
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	169, 186, 154
Decimal	12234906
CIE Lab	72.00, -0.14, 12.55
CIE LCh	72, 12.554, 90.618
Yxy	43.6590, 0.3403, 0.3585
Android (android.graphics.Color)	4290424986 (0xFFBAB09A)
YUV	176.4820, -11.0836, 8.3473
Hunter-Lab	66.0750, -3.6491, 13.3325

# Details

The CIELCh color  $72, 12.554, 90.618$  is a light color, and the websafe version is hex  $999999$ . A complement of this color would be  $67, 12.564, 275.123$ , and the grayscale version is  $72, 0.009, 296.813$ .

A 20% lighter version of the original color is  $92, 12.891, 92.384$ , and  $52, 12.720, 90.980$  is the 20% darker color. If you saturate the color by 10%, you get  $70, 20.023, 89.344$ , and if you desaturate by 10%, it is  $74, 5.213, 91.851$ .

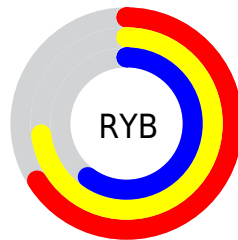
# Distribution



Red (73%)

Green (69%)

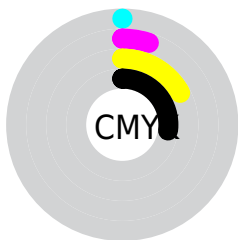
Blue (60%)



Red (66%)

Yellow (73%)

Blue (60%)

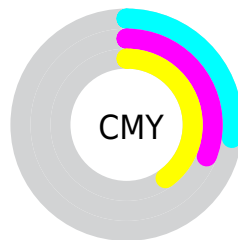


Cyan (0%)

Magenta (5%)

Yellow (17%)

Black (27%)



Cyan (27%)

Magenta (31%)

Yellow (40%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 72, 12.554, 90.618 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 72, 12.554, 90.618 by changing the saturation by 10% instead.



■ 72, 12.554, 90.618

■ 72, 12.554, 90.618

■ 100, 12.554,  
90.618

■ 62, 12.554, 90.618

■ 92, 12.554, 90.618

■ 52, 12.554, 90.618

■ 42, 12.554, 90.618

■ 32, 12.554, 90.618

■ 22, 12.554, 90.618

■ 12, 12.554, 90.618

■ 2, 12.554, 90.618

■ 0, 12.554, 90.618

■ 72, 12.554, 90.618

■ 72, 12.554, 90.618

70, 20.023, 89.344

74, 5.213, 91.851

68, 27.587, 88.020

76, 1.994, 273.203

66, 35.184, 86.656

78, 9.065, 274.273

65, 42.683, 85.246

80, 16.007,  
275.367

63, 49.849, 83.771

82, 22.827,  
276.415

61, 56.271, 82.180

60, 61.322, 80.372

84, 24.503,  
273.310

58, 64.409, 78.216

85, 22.243,  
265.746

58, 65.158, 77.611

87, 20.441,  
256.754

88, 19.214,  
246.422

# Harmonies

# Complementary

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



72, 12.554, 90.618



67, 12.564, 275.123

# Rectangle

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



72, 12.554, 90.618



72, 12.554, 140.618



72, 12.554, 270.618



72, 12.554, 320.618

# Sweetspot

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



72, 12.555, 90.627



94, 4.464, 92.095



67, 13.571, 356.487



51, 3.074, 92.017



98, 0.011, 296.813



51, 0.007, 296.813



# Same Dimension

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



72, 12.555, 90.627



90, 19.069, 90.104



74, 17.332, 116.153



38, 4.059, 91.602



49, 57.194, 78.006



7, 9.888, 82.691





# Inverse Universe

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



67, 12.564, 275.123



83, 19.079, 275.778



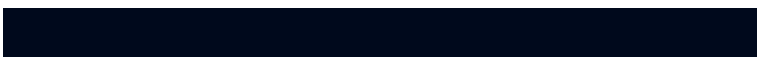
65, 17.982, 298.681



36, 4.067, 273.989



25, 68.902, 297.256

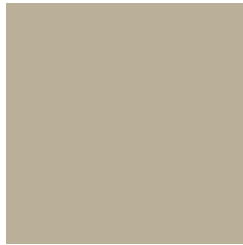


2, 12.017, 278.746



# Previews

## White Background



This preview shows how the CIELCh color 72, 12.554, 90.618 looks on a white background.

## Color Contrast Check

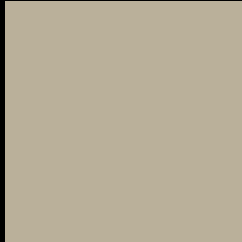
Large Text (above 18pt) WCAG AA × Fail

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 72, 12.554, 90.618 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

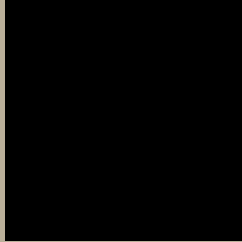
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

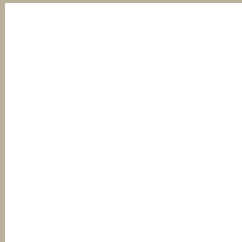
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 72, 12.554, 90.618**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 72, 12.554, 90.618.



This preview shows how white text looks on a background with the CIELCh color 72, 12.554, 90.618.

# 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


72, 12.554, 90.618

### Protanopia

72, 12.434, 92.362

### Deuteranopia

72, 14.906, 53.103



**Tritanopia**  
72, 10.440, 333.462



# Trichromacy



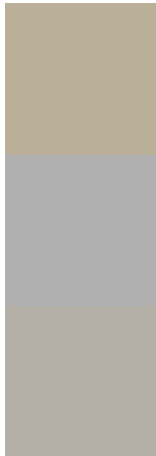
**Original Color**  
72, 12.554, 90.618

**Protanomaly**  
72, 12.434, 92.362

**Deuteranomaly**  
72, 13.041, 64.653

**Tritanomaly**  
72, 5.735, 14.396

# Monochromacy



**Original Color**  
72, 12.554, 90.618

**Achromatopsia**  
72, 0.009, 296.813

**Achromatomaly**  
72, 4.587, 90.264

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 72, 12.554, 90.618 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(186, 176, 154)` looks like.

```
.text, #text, p{  
    color:rgb(186, 176, 154)  
}
```

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(186, 176, 154) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(186, 176, 154) }
```

## Border

The CSS property to change the border of an element to CIELCh 72, 12.554, 90.618 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(186, 176, 154) }
```

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

```
.border{ border-color:rgb(186, 176, 154) }
```

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

Here you see how a box with a 4 pixel `rgb(186, 176, 154)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(186, 176, 154); -webkit-box-  
shadow:4px 4px 4px 4px rgb(186, 176, 154);  
box-shadow:4px 4px 4px 4px rgb(186, 176,  
154) }
```

# Background

The CSS property to change the background color of an element to CIELCh 72, 12.554, 90.618 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(186, 176, 154) }
```

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

```
.background{ background-color: rgb(186,  
176, 154) }
```

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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