

# Converting Colors

CIELCh(56, 7.263, 68.160)

Have a look what the booklet for  
CIELCh(56, 7.263, 68.160) contains.

<b>CIELCh(56, 7.116, 65.721)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	11
<i><b>Previews</b></i> .....	20
<i><b>Color Blindness Simulation</b></i> .....	23
<i><b>CSS Examples</b></i> .....	26

# Color

**CIELCh(56, 7.116, 65.721)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	90847B
RGB	144, 132, 123
RGB Percent	56%, 52%, 48%
CMY	0.4348, 0.4818, 0.5171
CMYK	0.00, 0.08, 0.15, 0.43
HSL	26°, 9%, 52%
HSV	26°, 15%, 57%
XYZ	23.3770, 23.9124, 22.1646
YIQ	134.5620, 10.0410, -0.2550

# Conversions

## Conversions Part 2

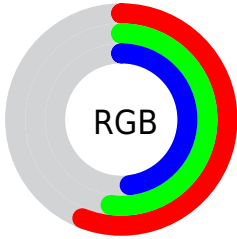
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	144, 139, 123
Decimal	9471099
CIE <sub>Lab</sub>	56.00, 2.93, 6.49
CIE <sub>LCh</sub>	56, 7.116, 65.721
Yxy	23.9124, 0.3366, 0.3443
Android (android.graphics.Color)	4287661179 (0xFF90847B)
YUV	134.5620, -5.7001, 8.2771
Hunter-Lab	48.9003, -0.2431, 7.3564

# Details

The CIELCh color  $56, 7.116, 65.721$  is a dark color, and the websafe version is hex  $999999$ . A complement of this color would be  $56, 6.754, 249.128$ , and the grayscale version is  $56, 0.007, 296.813$ .

A 20% lighter version of the original color is  $76, 7.311, 66.710$ , and  $36, 7.189, 70.238$  is the 20% darker color. If you saturate the color by 10%, you get  $53, 12.350, 64.699$ , and if you desaturate by 10%, it is  $59, 2.169, 66.691$ .

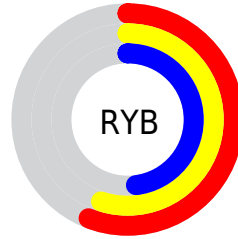
# Distribution



Red (56%)

Green (52%)

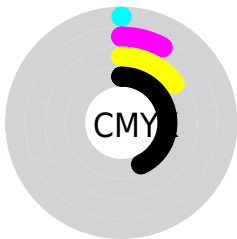
Blue (48%)



Red (56%)

Yellow (55%)

Blue (48%)

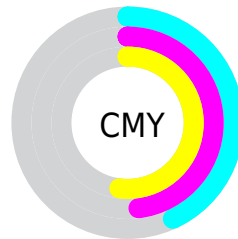


Cyan (0%)

Magenta (8%)

Yellow (15%)

Black (43%)



Cyan (43%)

Magenta (48%)

Yellow (52%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 56, 7.116, 65.721 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 56, 7.116, 65.721 by changing the saturation by 10% instead.




 56, 7.116, 65.721       56, 7.116, 65.721

 100, 7.116, 65.721       46, 7.116, 65.721

 76, 7.116, 65.721       36, 7.116, 65.721

 86, 7.116, 65.721       26, 7.116, 65.721

 96, 7.116, 65.721       16, 7.116, 65.721

 6, 7.116, 65.721

 0, 7.116, 65.721

 56, 7.116, 65.721       56, 7.116, 65.721

 53, 12.350, 64.699       59, 2.169, 66.691

 51, 17.892, 63.666       61, 2.518, 248.033

48, 23.752, 62.651

64, 6.973, 248.990

46, 29.917, 61.657

67, 11.222,  
249.993

44, 36.323, 60.665

69, 15.288,  
250.978

42, 42.808, 59.615

40, 49.024, 58.364

72, 19.194,  
251.936

38, 54.359, 56.643

75, 22.959,  
252.862

37, 57.303, 55.911

78, 26.599,  
253.752

80, 30.130,  
254.607

# Harmonies

# Complementary

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



56, 7.116, 65.721



56, 6.754, 249.128

# Rectangle

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



56, 7.116, 65.721



56, 7.116, 115.721



56, 7.116, 245.721



56, 7.116, 295.721

# Sweetspot

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



56, 7.116, 65.736



74, 2.334, 66.725



54, 10.933, 340.503



39, 1.676, 66.676



88, 0.010, 296.813



40, 0.006, 296.813



# Same Dimension

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



56, 7.116, 65.736



70, 10.310, 65.450



59, 10.871, 105.132



29, 2.694, 66.281



34, 54.593, 56.152



1, 1.781, 67.321





# Inverse Universe

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



56, 6.754, 249.128



70, 9.676, 249.510



53, 11.164, 288.212



29, 2.613, 248.453



32, 38.119, 274.744



1, 1.782, 247.336



# Previews

## White Background



This preview shows how the CIELCh color 56, 7.116, 65.721 looks on a white background.

## Color Contrast Check

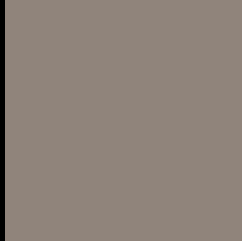
Large Text (above 18pt) WCAG AA ✓ Pass

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 56, 7.116, 65.721 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

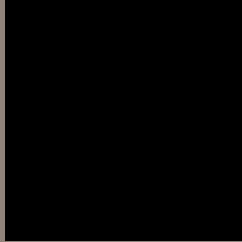
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**CIELCh 56, 7.116, 65.721**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 56, 7.116, 65.721.



This preview shows how white text looks on a background with the CIELCh color 56, 7.116, 65.721.

# 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


56, 7.116, 65.721

### Protanopia

56, 6.042, 89.798

### Deuteranopia

56, 9.332, 41.587



**Tritanopia**  
56, 8.528, 338.241



# Trichromacy



**Original Color**  
56, 7.116, 65.721

**Protanomaly**  
56, 6.074, 77.036

**Deuteranomaly**  
56, 8.431, 48.153

**Tritanomaly**  
56, 5.851, 2.985

# Monochromacy



**Original Color**  
56, 7.116, 65.721

**Achromatopsia**  
56, 0.007, 296.813

**Achromatomaly**  
56, 2.325, 66.641

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 56, 7.116, 65.721 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(144, 132, 123)` looks like.

```
.text, #text, p{  
    color:rgb(144, 132, 123)  
}
```

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(144, 132, 123) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(144, 132, 123) }
```

## Border

The CSS property to change the border of an element to CIELCh 56, 7.116, 65.721 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(144, 132, 123) }
```

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

```
.border{ border-color:rgb(144, 132, 123) }
```

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

Here you see how a box with a 4 pixel `rgb(144, 132, 123)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(144, 132, 123); -webkit-box-  
shadow:4px 4px 4px 4px rgb(144, 132, 123);  
box-shadow:4px 4px 4px 4px rgb(144, 132,  
123) }
```

# Background

The CSS property to change the background color of an element to CIELCh 56, 7.116, 65.721 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(144, 132, 123) }
```

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

```
.background{ background-color: rgb(144,  
132, 123) }
```

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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