

# Converting Colors

CIELCh(56, 4.502, 19.657)

Have a look what the booklet for  
CIELCh(56, 4.502, 19.657) contains.

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# Color

**CIELCh(56, 4.402, 19.773)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	8F8484
RGB	143, 132, 132
RGB Percent	56%, 52%, 52%
CMY	0.4402, 0.4833, 0.4833
CMYK	0.00, 0.08, 0.08, 0.44
HSL	0°, 5%, 54%
HSV	0°, 8%, 56%
XYZ	23.6504, 23.9124, 25.1107
YIQ	135.2890, 6.5560, 2.3320

# Conversions

## Conversions Part 2

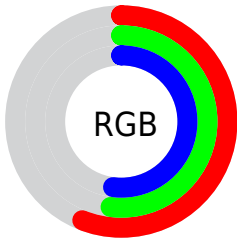
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	143, 132, 132
Decimal	9405572
CIE Lab	56.00, 4.14, 1.49
CIE LCh	56, 4.402, 19.773
Yxy	23.9124, 0.3254, 0.3290
Android (android.graphics.Color)	4287595652 (0xFF8F8484)
YUV	135.2890, -1.6215, 6.7625
Hunter-Lab	48.9003, 0.7549, 3.7843

# Details

The CIELCh color  $56, 4.402, 19.773$  is a dark color, and the websafe version is hex  $999999$ . A complement of this color would be  $58, 4.199, 199.117$ , and the grayscale version is  $56, 0.007, 296.813$ .

A 20% lighter version of the original color is  $76, 4.502, 19.657$ , and  $36, 4.364, 19.972$  is the 20% darker color. If you saturate the color by 10%, you get  $52, 10.509, 20.590$ , and if you desaturate by 10%, it is  $60, 1.262, 199.649$ .

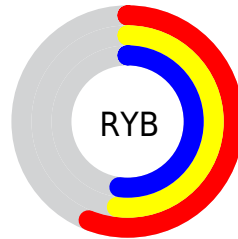
# Distribution



Red (56%)

Green (52%)

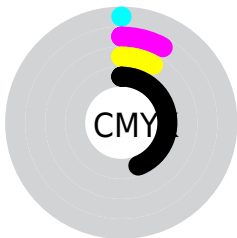
Blue (52%)



Red (56%)

Yellow (52%)

Blue (52%)

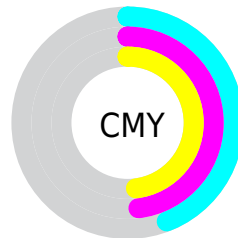


Cyan (0%)

Magenta (8%)

Yellow (8%)

Black (44%)



Cyan (44%)

Magenta (48%)

Yellow (48%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 56, 4.402, 19.773 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, 4.402, 19.773 by changing the saturation by 10% instead.




 56, 4.402, 19.773       56, 4.402, 19.773

 100, 4.402, 19.773       46, 4.402, 19.773

 76, 4.402, 19.773       36, 4.402, 19.773

 86, 4.402, 19.773       26, 4.402, 19.773

 96, 4.402, 19.773       16, 4.402, 19.773

 6, 4.402, 19.773

 0, 4.402, 19.773

 56, 4.402, 19.773       56, 4.402, 19.773

 52, 10.509, 20.590       60, 1.262, 199.649

 48, 17.075, 21.561       65, 6.510, 198.915

44, 24.076, 22.806

69, 11.382,  
198.519

40, 31.446, 24.420

73, 15.918,  
198.211

37, 39.049, 26.504

34, 46.683, 29.144

78, 20.158,  
197.963

32, 54.072, 32.337

82, 24.138,  
197.760

30, 60.773, 35.813

29, 65.959, 38.632

87, 27.890,  
197.592

91, 31.443,  
197.452

94, 33.611,  
197.352

# Harmonies

# Complementary

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



56, 4.402, 19.773



58, 4.199, 199.117

# Rectangle

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



56, 4.402, 19.773



56, 4.402, 69.773



56, 4.402, 199.773



56, 4.402, 249.773

# Sweetspot

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



56, 4.401, 19.792



74, 1.389, 19.167



56, 7.643, 324.824



39, 0.796, 19.134



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, 4.401, 19.792



71, 6.422, 19.907



58, 3.804, 74.438



28, 3.245, 19.906



27, 64.128, 38.803



0, 2.121, 19.424





# Inverse Universe

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



58, 4.199, 199.117



74, 6.072, 199.024



57, 3.743, 256.450



30, 3.068, 199.025



51, 31.258, 196.420



2, 2.121, 199.441



# Previews

## White Background



This preview shows how the CIELCh color 56, 4.402, 19.773 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 CIE LCh color 56, 4.402, 19.773 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

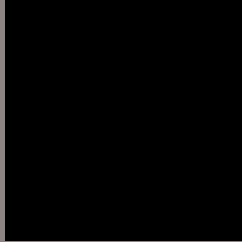
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**CIELCh 56, 4.402, 19.773**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 56, 4.402, 19.773.



This preview shows how white text looks on a background with the CIELCh color 56, 4.402, 19.773.

# 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, 4.402, 19.773

### Protanopia

56, 1.310, 44.989

### Deuteranopia

56, 7.335, 11.223



**Tritanopia**  
56, 8.380, 331.597



# Trichromacy



**Original Color**  
56, 4.402, 19.773

**Protanomaly**  
56, 2.383, 19.481

**Deuteranomaly**  
56, 6.053, 14.591

**Tritanomaly**  
56, 6.528, 342.293

# Monochromacy



**Original Color**  
56, 4.402, 19.773

**Achromatopsia**  
56, 0.007, 296.813

**Achromatomaly**  
56, 1.582, 19.309

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 56, 4.402, 19.773 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(143, 132, 132)` looks like.

```
.text, #text, p{  
    color:rgb(143, 132, 132)  
}
```

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(143, 132, 132) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(143, 132, 132) }
```

## Border

The CSS property to change the border of an element to CIELCh 56, 4.402, 19.773 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(143, 132, 132) }
```

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

```
.border{ border-color:rgb(143, 132, 132) }
```

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

Here you see how a box with a 4 pixel `rgb(143, 132, 132)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(143, 132, 132); -webkit-box-  
shadow:4px 4px 4px 4px rgb(143, 132, 132);  
box-shadow:4px 4px 4px 4px rgb(143, 132,  
132) }
```

# Background

The CSS property to change the background color of an element to CIELCh 56, 4.402, 19.773 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(143, 132, 132) }
```

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

```
.background{ background-color: rgb(143,  
132, 132) }
```

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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