

# Converting Colors

CIELCh(56, 10.250, 87.138)

Have a look what the booklet for  
CIELCh(56, 10.250, 87.138) contains.

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# Color

**CIELCh(56, 9.860, 86.745)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	8E8575
RGB	142, 133, 117
RGB Percent	56%, 52%, 46%
CMY	0.4421, 0.4774, 0.5402
CMYK	0.00, 0.06, 0.18, 0.44
HSL	38°, 10%, 51%
HSV	38°, 18%, 56%
XYZ	22.8513, 23.9124, 20.3207
YIQ	133.8670, 10.5000, -3.0680

# Conversions

## Conversions Part 2

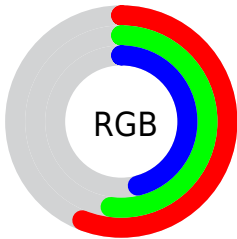
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	131, 142, 117
Decimal	9340277
CIE Lab	56.00, 0.56, 9.84
CIE LCh	56, 9.860, 86.745
Yxy	23.9124, 0.3406, 0.3565
Android (android.graphics.Color)	4287530357 (0xFF8E8575)
YUV	133.8670, -8.3154, 7.1326
Hunter-Lab	48.9003, -2.1620, 9.5921

# Details

The CIELCh color  $56, 9.860, 86.745$  is a dark color, and the websafe version is hex  $999999$ . A complement of this color would be  $53, 9.774, 271.354$ , and the grayscale version is  $56, 0.007, 296.813$ .

A 20% lighter version of the original color is  $76, 9.896, 86.288$ , and  $36, 9.980, 86.981$  is the 20% darker color. If you saturate the color by 10%, you get  $54, 15.657, 85.475$ , and if you desaturate by 10%, it is  $58, 4.197, 87.976$ .

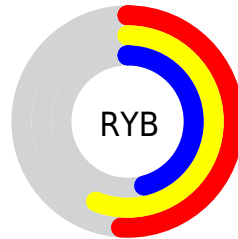
# Distribution



Red (56%)

Green (52%)

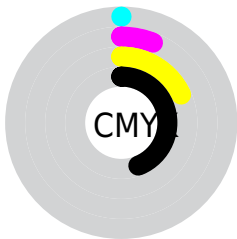
Blue (46%)



Red (51%)

Yellow (56%)

Blue (46%)

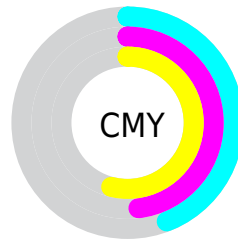


Cyan (0%)

Magenta (6%)

Yellow (18%)

Black (44%)



Cyan (44%)

Magenta (48%)

Yellow (54%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 56, 9.860, 86.745 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, 9.860, 86.745 by changing the saturation by 10% instead.




 56, 9.860, 86.745       56, 9.860, 86.745

 100, 9.860, 86.745       46, 9.860, 86.745


 76, 9.860, 86.745       36, 9.860, 86.745

 86, 9.860, 86.745       26, 9.860, 86.745

 96, 9.860, 86.745       16, 9.860, 86.745

 6, 9.860, 86.745

 0, 9.860, 86.745

 56, 9.860, 86.745       56, 9.860, 86.745

 54, 15.657, 85.475       58, 4.197, 87.976

 53, 21.572, 84.154       60, 1.334, 269.381

■ 51, 27.567, 82.794

■ 61, 6.736, 270.418

■ 49, 33.562, 81.387

■ 63, 12.019,  
271.516

■ 48, 39.400, 79.909

■ 65, 17.191,  
272.572

■ 46, 44.797, 78.305

■ 45, 49.289, 76.462

■ 67, 22.262,  
273.580

■ 43, 52.580, 74.313

■ 69, 27.242,  
274.539

■ 43, 53.425, 73.836

■ 71, 32.137,  
275.448

■ 73, 36.955,  
276.310

# Harmonies

# Complementary

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



56, 9.860, 86.745



53, 9.774, 271.354

# Rectangle

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



56, 9.860, 86.745



56, 9.860, 136.745



56, 9.860, 266.745



56, 9.860, 316.745

# Sweetspot

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



56, 9.861, 86.755



74, 3.435, 88.254



52, 11.430, 353.139



39, 2.364, 88.185



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, 9.861, 86.755



71, 14.739, 86.264



58, 14.166, 114.102



29, 3.143, 87.787



41, 51.469, 73.992



1, 2.107, 88.937





# Inverse Universe

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



53, 9.774, 271.354



66, 14.572, 271.969



50, 14.713, 296.873



28, 3.135, 270.151



23, 56.861, 294.029



1, 2.108, 268.945



# Previews

## White Background



This preview shows how the CIELCh color 56, 9.860, 86.745 looks on a white background.

## Color Contrast Check

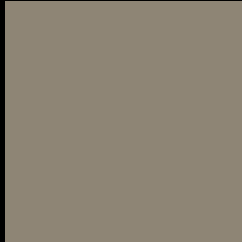
Large Text (above 18pt) WCAG AA ✓ Pass

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, 9.860, 86.745 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

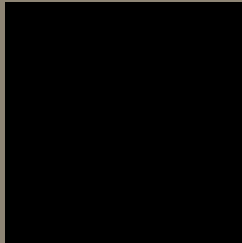
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**CIELCh 56, 9.860, 86.745**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 56, 9.860, 86.745.



This preview shows how white text looks on a background with the CIELCh color 56, 9.860, 86.745.

# 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, 9.860, 86.745

### Protanopia

56, 9.441, 93.817

### Deuteranopia

56, 11.929, 51.782



**Tritanopia**  
56, 8.241, 336.343



# Trichromacy



**Original Color**  
56, 9.860, 86.745

**Protanomaly**  
56, 9.559, 91.403

**Deuteranomaly**  
56, 10.601, 64.027

**Tritanomaly**  
56, 5.243, 13.650

# Monochromacy



**Original Color**  
56, 9.860, 86.745

**Achromatopsia**  
56, 0.007, 296.813

**Achromatomaly**  
56, 3.616, 90.293

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 56, 9.860, 86.745 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(142, 133, 117)` looks like.

```
.text, #text, p{  
    color:rgb(142, 133, 117)  
}
```

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(142, 133, 117) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(142, 133, 117) }
```

## Border

The CSS property to change the border of an element to CIELCh 56, 9.860, 86.745 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(142, 133, 117) }
```

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

```
.border{ border-color:rgb(142, 133, 117) }
```

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

Here you see how a box with a 4 pixel rgb(142, 133, 117) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(142, 133, 117); -webkit-box-  
shadow:4px 4px 4px 4px rgb(142, 133, 117);  
box-shadow:4px 4px 4px 4px rgb(142, 133,  
117) }
```

# Background

The CSS property to change the background color of an element to CIELCh 56, 9.860, 86.745 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(142, 133, 117) }
```

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

```
.background{ background-color: rgb(142,  
133, 117) }
```

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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