

# Converting Colors

CIELCh(86, 7.884, 109.436)

Have a look what the booklet for  
CIELCh(86, 7.884, 109.436) contains.

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# Color

**CIELCh(86, 7.835, 109.504)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D8D8C9
RGB	216, 216, 201
RGB Percent	85%, 85%, 79%
CMY	0.1526, 0.1526, 0.2114
CMYK	0.00, 0.00, 0.07, 0.15
HSL	60°, 16%, 82%
HSV	60°, 7%, 85%
XYZ	63.4731, 67.9871, 65.0863
YIQ	214.2900, 4.8150, -4.6650

# Conversions

## Conversions Part 2

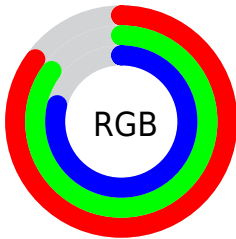
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	201, 216, 201
Decimal	14211273
CIE Lab	86.00, -2.62, 7.39
CIE LCh	86, 7.835, 109.504
Yxy	67.9871, 0.3229, 0.3459
Android (android.graphics.Color)	4292401353 (0xFFD8D8C9)
YUV	214.2900, -6.5520, 1.4997
Hunter-Lab	82.4543, -6.8861, 10.9168

# Details

The CIELCh color  $86, 7.835, 109.504$  is a light color, and the websafe version is hex `CCCCCC`. A complement of this color would be  $81, 7.973, 290.897$ , and the grayscale version is  $86, 0.010, 296.813$ .

A 20% lighter version of the original color is  $100, 0.012, 296.813$ , and  $66, 7.723, 109.354$  is the 20% darker color. If you saturate the color by 10%, you get  $86, 19.086, 108.551$ , and if you desaturate by 10%, it is  $87, 3.467, 290.498$ .

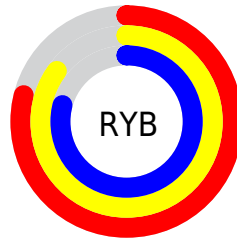
# Distribution



Red (85%)

Green (85%)

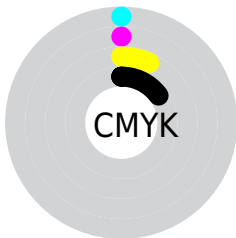
Blue (79%)



Red (79%)

Yellow (85%)

Blue (79%)

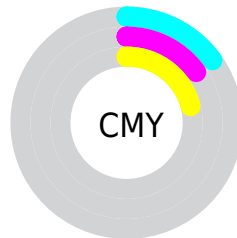


Cyan (0%)

Magenta (0%)

Yellow (7%)

Black (15%)



Cyan (15%)

Magenta (15%)

Yellow (21%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 86, 7.835, 109.504 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 86, 7.835, 109.504 by changing the saturation by 10% instead.



■ 86, 7.835, 109.504

■ 86, 7.835, 109.504

■ 100, 7.835,  
109.504

■ 76, 7.835, 109.504

■ 66, 7.835, 109.504

■ 56, 7.835, 109.504

■ 46, 7.835, 109.504

■ 36, 7.835, 109.504

■ 26, 7.835, 109.504

■ 16, 7.835, 109.504

■ 6, 7.835, 109.504

■ 0, 7.835, 109.504

86, 7.835, 109.504

86, 7.835, 109.504

86, 19.086,  
108.551

87, 3.467, 290.498

85, 30.207,  
107.583

87, 14.780,  
291.414

85, 41.089,  
106.631

87, 20.373,  
291.865

84, 51.558,  
105.719

87, 20.373,  
291.870

84, 61.347,  
104.875

87, 20.373,  
291.876

84, 70.067,  
104.136

87, 20.373,  
291.882

84, 77.212,  
103.542

87, 20.373,  
291.887

84, 82.259,  
103.131

87, 20.373,  
291.893

■ 84, 84.950,  
102.915

■ 87, 20.373,  
291.898

# Harmonies

# Complementary

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



86, 7.835, 109.504



81, 7.973, 290.897

# Rectangle

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



86, 7.835, 109.504



86, 7.835, 159.504



86, 7.835, 289.504



86, 7.835, 339.504

# Sweetspot

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



86, 7.837, 109.515



100, 2.575, 109.967



82, 5.552, 19.731



53, 1.464, 109.975



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



86, 7.837, 109.515



100, 10.326, 109.407



85, 8.346, 128.779



45, 6.359, 109.279



68, 71.786, 102.869



17, 25.020, 104.510



# Inverse Universe

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



81, 7.973, 290.897



93, 10.528, 291.018



82, 8.438, 309.361



41, 6.500, 291.164



20, 99.122, 306.288

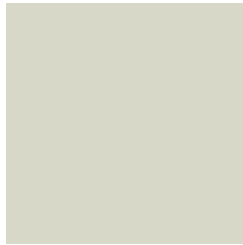


2, 27.577, 294.049



# Previews

## White Background



This preview shows how the CIELCh color 86, 7.835, 109.504 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 86, 7.835, 109.504 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

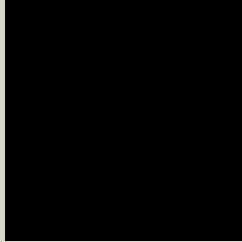
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

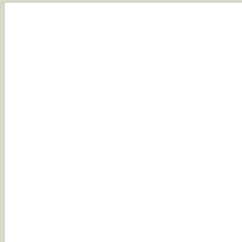
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 86, 7.835, 109.504

## Background



This preview shows how black text looks on a background with the CIELCh color 86, 7.835, 109.504.



This preview shows how white text looks on a background with the CIELCh color 86, 7.835, 109.504.

# 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**

86, 7.835, 109.504

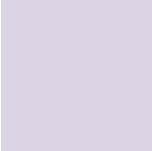
**Protanopia**

86, 7.886, 87.343

**Deuteranopia**

86, 12.305, 32.425





**Tritanopia**  
86, 9.407, 308.362

# Trichromacy



**Original Color**  
86, 7.835, 109.504

**Protanomaly**  
86, 8.042, 96.136

**Deuteranomaly**  
86, 8.831, 51.913

**Tritanomaly**  
86, 3.844, 324.520

# Monochromacy



**Original Color**  
86, 7.835, 109.504

**Achromatopsia**  
86, 0.010, 296.813

**Achromatomaly**  
86, 3.132, 109.890

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 86, 7.835, 109.504 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(216, 216, 201)` looks like.

```
.text, #text, p{  
    color:rgb(216, 216, 201)  
}
```

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(216, 216, 201) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(216, 216, 201) }
```

## Border

The CSS property to change the border of an element to CIELCh 86, 7.835, 109.504 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(216, 216, 201) }
```

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

```
.border{ border-color:rgb(216, 216, 201) }
```

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

Here you see how a box with a 4 pixel `rgb(216, 216, 201)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(216, 216, 201); -webkit-box-  
shadow:4px 4px 4px 4px rgb(216, 216, 201);  
box-shadow:4px 4px 4px 4px rgb(216, 216,  
201) }
```

# Background

The CSS property to change the background color of an element to CIELCh 86, 7.835, 109.504 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(216, 216, 201) }
```

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

```
.background{ background-color: rgb(216,  
216, 201) }
```

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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