

# Converting Colors

CIELCh(80, 8.407, 12.683)

Have a look what the booklet for  
CIELCh(80, 8.407, 12.683) contains.

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# Color

**CIELCh(80, 8.295, 12.670)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D7C1C3
RGB	215, 193, 195
RGB Percent	84%, 76%, 76%
CMY	0.1559, 0.2422, 0.2343
CMYK	0.00, 0.10, 0.09, 0.16
HSL	355°, 22%, 80%
HSV	355°, 10%, 84%
XYZ	57.0971, 56.6813, 59.7034
YIQ	199.8060, 12.4700, 5.2860

# Conversions

## Conversions Part 2

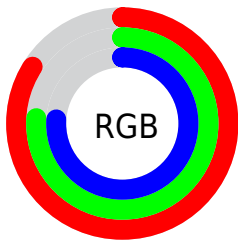
Format	Color
R <sub>Y</sub> B	215, 193, 195
Decimal	14139843
CIE Lab	80.00, 8.09, 1.82
CIE LCh	80, 8.295, 12.670
Yxy	56.6813, 0.3291, 0.3267
Android (android.graphics.Color)	4292329923 (0xFFD7C1C3)
YUV	199.8060, -2.3694, 13.3251
Hunter-Lab	75.2870, 3.6209, 5.6833

# Details

The CIELCh color  $80, 8.295, 12.670$  is a light color, and the websafe version is hex `CCCCCC`. A complement of this color would be  $84, 7.860, 191.204$ , and the grayscale version is  $81, 0.010, 296.813$ .

A 20% lighter version of the original color is  $98, 2.621, 343.658$ , and  $60, 8.443, 12.585$  is the 20% darker color. If you saturate the color by 10%, you get  $74, 16.958, 13.725$ , and if you desaturate by 10%, it is  $86, 0.177, 8.709$ .

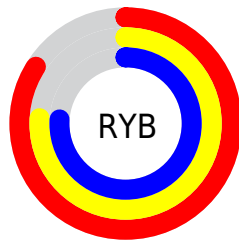
# Distribution



Red (84%)

Green (76%)

Blue (76%)



Red (84%)

Yellow (76%)

Blue (76%)

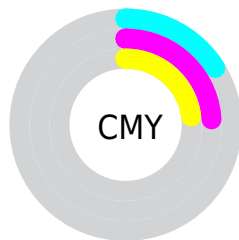


Cyan (0%)

Magenta (10%)

Yellow (9%)

Black (16%)



Cyan (16%)

Magenta (24%)

Yellow (23%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 80, 8.295, 12.670 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 80, 8.295, 12.670 by changing the saturation by 10% instead.



 80, 8.295, 12.670

 80, 8.295, 12.670

 100, 8.295, 12.670

 70, 8.295, 12.670

 60, 8.295, 12.670

 50, 8.295, 12.670

 40, 8.295, 12.670

 30, 8.295, 12.670

 20, 8.295, 12.670

 10, 8.295, 12.670

 0, 8.295, 12.670

 80, 8.295, 12.670

 80, 8.295, 12.670

74, 16.958, 13.725

86, 0.177, 8.709

69, 26.146, 14.985

92, 7.406, 191.309

63, 35.771, 16.560

97, 13.382,  
196.313

58, 45.661, 18.560

97, 13.333,  
198.616

54, 55.552, 21.114

50, 65.111, 24.342

48, 74.006, 28.283

46, 81.899, 32.724

45, 88.194, 36.737

# Harmonies

# Complementary

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



80, 8.295, 12.670



84, 7.860, 191.204

# Rectangle

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



80, 8.295, 12.670



80, 8.295, 62.670



80, 8.295, 192.670



80, 8.295, 242.670

# Sweetspot

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



80, 8.293, 12.682



98, 2.727, 11.903



80, 13.771, 322.192



52, 2.073, 12.018



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



80, 8.293, 12.682



92, 11.242, 12.869



82, 6.777, 62.790



42, 4.574, 12.604



35, 73.635, 36.050



5, 21.965, 15.720





# Inverse Universe

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



80, 8.293, 12.682



92, 11.242, 12.869



82, 6.506, 245.113



42, 4.574, 12.604



35, 73.635, 36.050

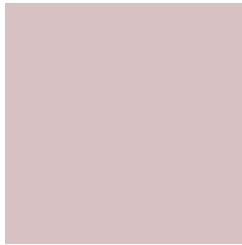


5, 21.965, 15.720



# Previews

## White Background



This preview shows how the CIELCh color 80, 8.295, 12.670 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 80, 8.295, 12.670 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

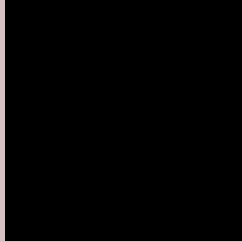
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**CIELCh 80, 8.295, 12.670**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 80, 8.295, 12.670.



This preview shows how white text looks on a background with the CIELCh color 80, 8.295, 12.670.

# 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

80, 8.295, 12.670

### Protanopia

80, 1.922, 3.204

### Deuteranopia

80, 10.247, 11.275



**Tritanopia**  
80, 12.467, 340.634



# Trichromacy



**Original Color**  
80, 8.295, 12.670

**Protanomaly**  
80, 4.109, 12.177

**Deuteranomaly**  
80, 9.871, 10.895

**Tritanomaly**  
80, 10.356, 349.364

# Monochromacy



**Original Color**  
80, 8.295, 12.670

**Achromatopsia**  
81, 0.010, 296.813

**Achromatomaly**  
81, 2.951, 19.448

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 80, 8.295, 12.670 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(215, 193, 195)` looks like.

```
.text, #text, p{  
    color:rgb(215, 193, 195)  
}
```

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(215, 193, 195) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(215, 193, 195) }
```

## Border

The CSS property to change the border of an element to CIELCh 80, 8.295, 12.670 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(215, 193, 195) }
```

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

```
.border{ border-color:rgb(215, 193, 195) }
```

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

Here you see how a box with a 4 pixel `rgb(215, 193, 195)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(215, 193, 195); -webkit-box-  
shadow:4px 4px 4px 4px rgb(215, 193, 195);  
box-shadow:4px 4px 4px 4px rgb(215, 193,  
195) }
```

# Background

The CSS property to change the background color of an element to CIELCh 80, 8.295, 12.670 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(215, 193, 195) }
```

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

```
.background{ background-color: rgb(215,  
193, 195) }
```

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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