

# Converting Colors

CIELCh(80, 51.159, 99.776)

Have a look what the booklet for  
CIELCh(80, 51.159, 99.776) contains.

<b>CIELCh(80, 51.131, 99.800)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	21
<i><b>Color Blindness Simulation</b></i> .....	24
<i><b>CSS Examples</b></i> .....	27

# Color

**CIELCh(80, 51.131, 99.800)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D5C966
RGB	213, 201, 102
RGB Percent	84%, 79%, 40%
CMY	0.1660, 0.2129, 0.6011
CMYK	0.00, 0.06, 0.52, 0.17
HSL	54°, 57%, 62%
HSV	54°, 52%, 83%
XYZ	50.5456, 56.6813, 20.7712
YIQ	193.3020, 38.9310, -28.2450

# Conversions

## Conversions Part 2

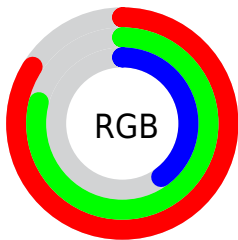
<b>Format</b>	<b>Color</b>
<b>RYB</b>	115, 213, 102
Decimal	14010726
CIELab	80.00, -8.70, 50.38
CIELCh	80, 51.131, 99.800
Yxy	56.6813, 0.3949, 0.4428
Android (android.graphics.Color)	4292200806 (0xFFD5C966)
YUV	193.3020, -45.0119, 17.2751
Hunter-Lab	75.2870, -11.9122, 36.3431

# Details

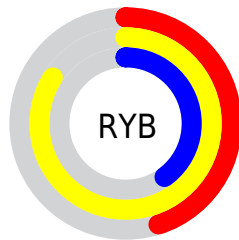
The CIELCh color **80, 51.131, 99.800** is a light color, and the websafe version is hex **CCCC66**. A complement of this color would be **51, 57.407, 293.753**, and the grayscale version is **78, 0.009, 296.813**.

A 20% lighter version of the original color is **98, 49.747, 106.373**, and **60, 51.134, 99.674** is the 20% darker color. If you saturate the color by 10%, you get **79, 59.821, 98.761**, and if you desaturate by 10%, it is **81, 41.781, 100.877**.

# Distribution



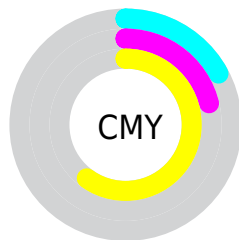
- Red (84%)
- Green (79%)
- Blue (40%)



- Red (45%)
- Yellow (84%)
- Blue (40%)



- Cyan (0%)
- Magenta (6%)
- Yellow (52%)
- Black (17%)



- Cyan (17%)
- Magenta (21%)
- Yellow (60%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 80, 51.131, 99.800 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, 51.131, 99.800 by changing the saturation by 10% instead.



 80, 51.131, 99.800

 80, 51.131, 99.800

 100, 51.131,  
99.800

 70, 51.131, 99.800

 60, 51.131, 99.800

 50, 51.131, 99.800

 40, 51.131, 99.800

 30, 51.131, 99.800

 20, 51.131, 99.800

 10, 51.131, 99.800

 0, 51.131, 99.800

 80, 51.131, 99.800

 80, 51.131, 99.800

79, 59.821, 98.761

81, 41.781,  
100.877

78, 67.407, 97.769

82, 32.059,  
101.967

78, 73.305, 96.839

77, 76.931, 95.970

83, 22.150,  
103.055

77, 78.314, 95.317

84, 12.162,  
104.128

85, 2.163, 105.138

86, 7.809, 286.229

87, 17.729,  
287.206

88, 18.851,  
285.254

89, 17.720,  
282.234



# Harmonies

# Complementary

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



80, 51.131, 99.800



51, 57.407, 293.753

# Rectangle

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



80, 51.131, 99.800



80, 51.131, 149.800



80, 51.131, 279.800



80, 51.131, 329.800

# Sweetspot

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



80, 51.132, 99.803



98, 18.522, 103.703



57, 46.911, 17.055



52, 12.505, 103.480



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, 51.132, 99.803



93, 69.980, 98.611



80, 58.897, 122.296



45, 5.700, 104.418



63, 66.592, 95.441



15, 22.395, 98.163



# Inverse Universe

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



51, 57.407, 293.753



53, 82.072, 296.535



52, 65.178, 308.222



42, 5.798, 286.477



22, 93.674, 304.710



3, 25.515, 291.522



# Previews

## White Background



This preview shows how the CIELCh color 80, 51.131, 99.800 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, 51.131, 99.800 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, 51.131, 99.800

## Background



This preview shows how black text looks on a background with the CIELCh color 80, 51.131, 99.800.



This preview shows how white text looks on a background with the CIELCh color 80, 51.131, 99.800.

# 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, 51.131, 99.800


### Protanopia

80, 51.240, 95.929

### Deuteranopia

80, 50.376, 78.421





**Tritanopia**  
80, 14.888, 348.308

# Trichromacy



**Original Color**  
80, 51.131, 99.800

**Protanomaly**  
80, 51.453, 97.404

**Deuteranomaly**  
80, 49.573, 86.045

**Tritanomaly**  
80, 17.274, 72.467

# Monochromacy



**Original Color**  
80, 51.131, 99.800

**Achromatopsia**  
78, 0.009, 296.813

**Achromatomaly**  
79, 19.159, 103.702

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 80, 51.131, 99.800 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(213, 201, 102)` looks like.

```
.text, #text, p{  
    color:rgb(213, 201, 102)  
}
```

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(213, 201, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(213, 201, 102) }
```

## Border

The CSS property to change the border of an element to CIELCh 80, 51.131, 99.800 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(213, 201, 102) }
```

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

```
.border{ border-color:rgb(213, 201, 102) }
```

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

Here you see how a box with a 4 pixel `rgb(213, 201, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(213, 201, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(213, 201, 102);  
box-shadow:4px 4px 4px 4px rgb(213, 201,  
102) }
```

# Background

The CSS property to change the background color of an element to CIELCh 80, 51.131, 99.800 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(213, 201, 102) }
```

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

```
.background{ background-color: rgb(213,  
201, 102) }
```

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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