

# Converting Colors

CIELCh(81, 16.650, 107.024)

Have a look what the booklet for  
CIELCh(81, 16.650, 107.024)  
contains.

<b>CIELCh(81, 16.885, 107.349)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	21
<b><i>Color Blindness Simulation</i></b> .....	24
<b><i>CSS Examples</i></b> .....	27

# **Color**

**CIELCh(81, 16.885, 107.349)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CCCBAB
RGB	204, 203, 171
RGB Percent	80%, 80%, 67%
CMY	0.2001, 0.2040, 0.3295
CMYK	0.00, 0.00, 0.16, 0.20
HSL	58°, 24%, 74%
HSV	58°, 16%, 80%
XYZ	53.5913, 58.4711, 46.9759
YIQ	199.6510, 10.8680, -9.7400

# Conversions

## Conversions Part 2

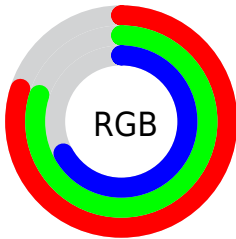
Format	Color
<a href="#">RYB</a>	<a href="#">172, 204, 171</a>
Decimal	<a href="#">13421483</a>
CIELab	<a href="#">81.00, -5.03, 16.12</a>
CIELCh	<a href="#">81, 16.885, 107.349</a>
Yxy	<a href="#">58.4711, 0.3370, 0.3677</a>
Android (android.graphics.Color)	<a href="#">4291611563 (0xFFCCCBAB)</a>
YUV	<a href="#">199.6510, -14.1249, 3.8141</a>
Hunter-Lab	<a href="#">76.4664, -8.7148, 17.1026</a>

# Details

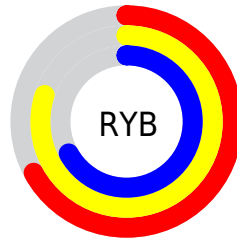
The CIELCh color **81, 16.885, 107.349** is a light color, and the websafe version is hex **CCCC99**. A complement of this color would be **71, 17.482, 290.751**, and the grayscale version is **81, 0.010, 296.813**.

A 20% lighter version of the original color is **99, 14.673, 109.069**, and **61, 16.740, 106.863** is the 20% darker color. If you saturate the color by 10%, you get **80, 27.228, 106.359**, and if you desaturate by 10%, it is **82, 6.454, 108.338**.

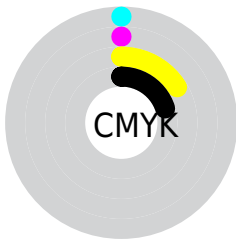
# Distribution



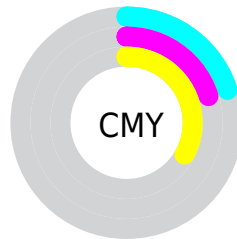
- Red (80%)
- Green (80%)
- Blue (67%)



- Red (67%)
- Yellow (80%)
- Blue (67%)



- Cyan (0%)
- Magenta (0%)
- Yellow (16%)
- Black (20%)




- Cyan (20%)
- Magenta (20%)
- Yellow (33%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 81, 16.885, 107.349 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 81, 16.885, 107.349 by changing the saturation by 10% instead.





 81, 16.885,  
107.349


 81, 16.885,  
107.349


 100, 16.885,  
107.349


 71, 16.885,  
107.349


 61, 16.885,  
107.349

 51, 16.885,  
107.349

 41, 16.885,  
107.349

 31, 16.885,  
107.349

 21, 16.885,  
107.349

 11, 16.885,

107.349

■ 1, 16.885, 107.349

■ 0, 16.885, 107.349

■ 81, 16.885,  
107.349

■ 81, 16.885,  
107.349

■ 80, 27.228,  
106.359

■ 82, 6.454, 108.338

■ 80, 37.382,  
105.372

■ 82, 4.011, 289.341

■ 79, 47.198,  
104.412

■ 83, 14.467,  
290.271

■ 79, 56.441,  
103.506

■ 84, 24.890,  
291.179

■ 79, 64.761,

■ 84, 25.836,  
290.852

102.683

84, 25.501,  
290.349

78, 71.680,  
101.979

84, 25.168,  
289.834

78, 76.669,  
101.424

85, 24.837,  
289.305

78, 79.386,  
101.033

85, 24.509,  
288.763

78, 80.087,  
100.908

# Harmonies

# Complementary

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



81, 16.885, 107.349



71, 17.482, 290.751

# Rectangle

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



81, 16.885, 107.349



81, 16.885, 157.349



81, 16.885, 287.349



81, 16.885, 337.349

# Sweetspot

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



81, 16.887, 107.355



100, 6.260, 108.445



73, 12.779, 17.834



53, 4.271, 108.376



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



81, 16.887, 107.355



99, 23.754, 107.050



80, 18.441, 127.154



43, 5.927, 108.025



65, 68.663, 100.937



14, 21.199, 103.780



# Inverse Universe

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



71, 17.482, 290.751



85, 24.761, 291.148



72, 18.882, 308.663



39, 6.051, 289.944



19, 95.481, 305.873



2, 23.035, 291.717



# Previews

## White Background



This preview shows how the CIELCh color 81, 16.885, 107.349 looks on a white background.

## Color Contrast Check

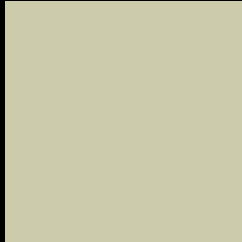
Large Text (above 18pt) WCAG AA × Fail

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 81, 16.885, 107.349 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

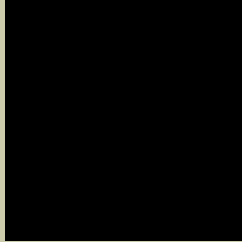
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

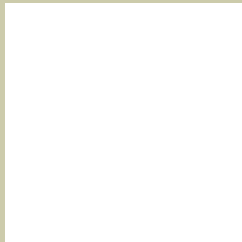
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 81, 16.885, 107.349**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 81, 16.885, 107.349.



This preview shows how white text looks on a background with the CIELCh color 81, 16.885, 107.349.

# 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

81, 16.885, 107.349


### Protanopia

81, 16.926, 94.019

### Deuteranopia

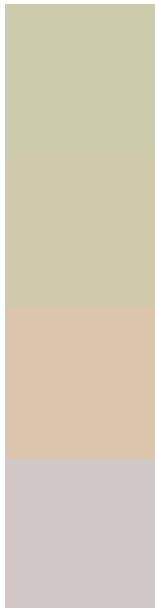
81, 18.433, 57.033





**Tritanopia**  
81, 9.760, 319.495

# Trichromacy



**Original Color**  
81, 16.885, 107.349

**Protanomaly**  
81, 17.103, 99.497

**Deuteranomaly**  
81, 16.282, 73.730

**Tritanomaly**  
81, 3.362, 28.551

# Monochromacy



**Original Color**  
81, 16.885, 107.349

**Achromatopsia**  
81, 0.010, 296.813

**Achromatomaly**  
81, 6.353, 109.599

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 81, 16.885, 107.349 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(204, 203, 171)` looks like.

```
.text, #text, p{  
    color:rgb(204, 203, 171)  
}
```

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(204, 203, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 203, 171) }
```

## Border

The CSS property to change the border of an element to CIELCh 81, 16.885, 107.349 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(204, 203, 171) }
```

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

```
.border{ border-color:rgb(204, 203, 171) }
```

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

Here you see how a box with a 4 pixel `rgb(204, 203, 171)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 203, 171); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 203, 171);  
box-shadow:4px 4px 4px 4px rgb(204, 203,  
171) }
```

# Background

The CSS property to change the background color of an element to CIELCh 81, 16.885, 107.349 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 203, 171) }
```

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

```
.background{ background-color: rgb(204,  
203, 171) }
```

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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