

# Converting Colors

CIELCh(84, 23.311, 117.957)

Have a look what the booklet for  
CIELCh(84, 23.311, 117.957)  
contains.

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# Color

**CIELCh(84, 23.310, 117.702)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	CCD6AA
RGB	204, 214, 170
RGB Percent	80%, 84%, 67%
CMY	0.1987, 0.1594, 0.3320
CMYK	0.05, 0.00, 0.21, 0.16
HSL	74°, 35%, 75%
HSV	74°, 21%, 84%
XYZ	56.4146, 64.0658, 47.5857
YIQ	205.9940, 8.1640, -15.8040

# Conversions

## Conversions Part 2

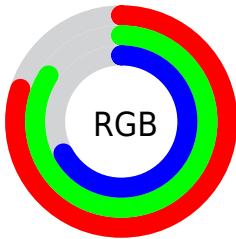
<b>Format</b>	<b>Color</b>
<b>RYB</b>	170, 214, 180
Decimal	13424298
CIELab	84.00, -10.84, 20.64
CIELCh	84, 23.310, 117.702
Yxy	64.0658, 0.3357, 0.3812
Android (android.graphics.Color)	4291614378 (0xFFCCD6AA)
YUV	205.9940, -17.7450, -1.7487
Hunter-Lab	80.0411, -14.2615, 20.7799

# Details

The CIELCh color **84, 23.310, 117.702** is a light color, and the websafe version is hex **CCCC99**. A complement of this color would be **72, 24.338, 300.552**, and the grayscale version is **83, 0.010, 296.813**.

A 20% lighter version of the original color is **99, 15.178, 109.030**, and **64, 22.884, 117.072** is the 20% darker color. If you saturate the color by 10%, you get **83, 34.488, 117.047**, and if you desaturate by 10%, it is **85, 11.987, 118.366**.

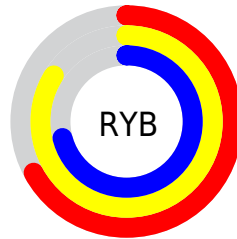
# Distribution



Red (80%)

Green (84%)

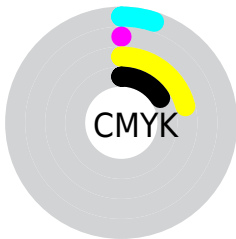
Blue (67%)



Red (67%)

Yellow (84%)

Blue (71%)

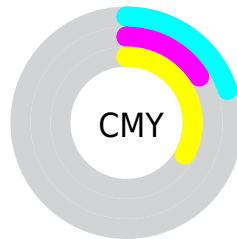


Cyan (5%)

Magenta (0%)

Yellow (21%)

Black (16%)



Cyan (20%)

Magenta (16%)


Yellow (33%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 84, 23.310, 117.702 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 84, 23.310, 117.702 by changing the saturation by 10% instead.





 84, 23.310,  
117.702


 84, 23.310,  
117.702


 100, 23.310,  
117.702


 74, 23.310,  
117.702

 64, 23.310,  
117.702

 54, 23.310,  
117.702

 44, 23.310,  
117.702

 34, 23.310,  
117.702

 24, 23.310,  
117.702

 14, 23.310,

117.702

■ 4, 23.310, 117.702

■ 0, 23.310, 117.702

■ 84, 23.310,  
117.702

■ 84, 23.310,  
117.702

■ 83, 34.488,  
117.047

■ 85, 11.987,  
118.366

■ 83, 45.387,  
116.414

■ 86, 0.599, 119.047

■ 82, 55.812,  
115.844

■ 87, 10.790,  
299.627

■ 81, 65.471,  
115.392

■ 88, 21.587,  
300.404

■ 81, 73.954,

■ 88, 21.900,  
304.692

115.132

88, 22.330,  
308.880

80, 80.745,  
115.159

89, 22.872,  
312.929

80, 85.374,  
115.571

89, 23.520,  
316.809

80, 87.881,  
116.301

90, 24.270,  
320.498

# Harmonies

# Complementary

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



84, 23.310, 117.702



72, 24.338, 300.552

# Rectangle

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



84, 23.310, 117.702



84, 23.310, 167.702



84, 23.310, 297.702



84, 23.310, 347.702

# Sweetspot

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



84, 23.312, 117.705



99, 7.859, 118.659



76, 14.482, 40.944



53, 5.213, 118.616



0, 0.000, 0.000



53, 0.007, 296.813



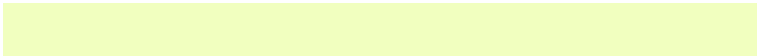


# Same Dimension

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



84, 23.312, 117.705



98, 32.610, 117.394



83, 26.060, 135.316



45, 6.454, 118.439



65, 74.146, 116.113



16, 25.647, 117.011



# Inverse Universe

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



72, 24.338, 300.552



81, 34.416, 300.963



74, 26.440, 317.129



41, 6.586, 299.679



21, 97.222, 307.548



2, 27.899, 299.675



# Previews

## White Background



This preview shows how the CIELCh color 84, 23.310, 117.702 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 CIE LCh color 84, 23.310, 117.702 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

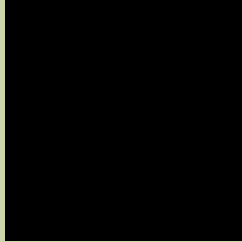
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

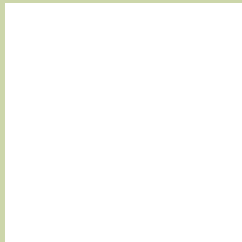
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 84, 23.310, 117.702

## Background



This preview shows how black text looks on a background with the CIELCh color 84, 23.310, 117.702.



This preview shows how white text looks on a background with the CIELCh color 84, 23.310, 117.702.

# 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

84, 23.310, 117.702


### Protanopia

84, 22.079, 94.915

### Deuteranopia

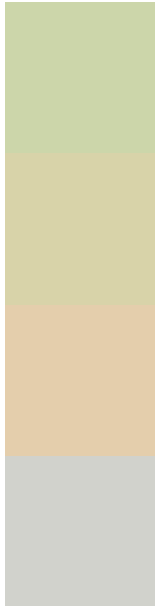
84, 22.072, 61.644





**Tritanopia**  
84, 8.659, 302.676

# Trichromacy



**Original Color**  
84, 23.310, 117.702

**Protanomaly**  
84, 22.045, 103.178

**Deuteranomaly**  
84, 19.878, 82.859

**Tritanomaly**  
84, 3.172, 116.502

# Monochromacy



**Original Color**  
84, 23.310, 117.702

**Achromatopsia**  
83, 0.010, 296.813

**Achromatomaly**  
83, 8.558, 119.442

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 84, 23.310, 117.702 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, 214, 170)` looks like.

```
.text, #text, p{  
    color:rgb(204, 214, 170)  
}
```

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, 214, 170) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(204, 214, 170) }
```

## Border

The CSS property to change the border of an element to CIELCh 84, 23.310, 117.702 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, 214, 170) }
```

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

```
.border{ border-color:rgb(204, 214, 170) }
```

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

Here you see how a box with a 4 pixel `rgb(204, 214, 170)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(204, 214, 170); -webkit-box-  
shadow:4px 4px 4px 4px rgb(204, 214, 170);  
box-shadow:4px 4px 4px 4px rgb(204, 214,  
170) }
```

# Background

The CSS property to change the background color of an element to CIELCh 84, 23.310, 117.702 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(204, 214, 170) }
```

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

```
.background{ background-color: rgb(204,  
214, 170) }
```

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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