

# Converting Colors

CIELCh(85, 33.113, 103.351)

Have a look what the booklet for  
CIELCh(85, 33.113, 103.351)  
contains.

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**Color**

**CIELCh(85, 33.232, 103.848)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DCD797
RGB	220, 215, 151
RGB Percent	86%, 84%, 59%
CMY	0.1375, 0.1571, 0.4081
CMYK	0.00, 0.02, 0.31, 0.14
HSL	56°, 50%, 73%
HSV	56°, 31%, 86%
XYZ	59.3614, 66.0070, 38.8650
YIQ	209.1990, 23.5240, -18.8440

# Conversions

## Conversions Part 2

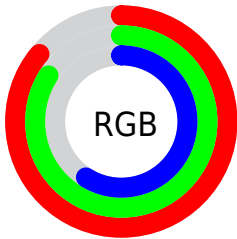
<b>Format</b>	<b>Color</b>
<b>RYB</b>	156, 220, 151
Decimal	14473111
CIELab	85.00, -7.95, 32.27
CIELCh	85, 33.232, 103.848
Yxy	66.0070, 0.3614, 0.4019
Android (android.graphics.Color)	4292663191 (0xFFDCD797)
YUV	209.1990, -28.6921, 9.4725
Hunter-Lab	81.2447, -11.7573, 28.5088

# Details

The CIELCh color **85, 33.232, 103.848** is a light color, and the websafe version is hex **CCCC99**. A complement of this color would be **66, 35.474, 291.213**, and the grayscale version is **84, 0.010, 296.813**.

A 20% lighter version of the original color is **99, 24.734, 108.302**, and **65, 33.236, 103.609** is the 20% darker color. If you saturate the color by 10%, you get **84, 43.519, 102.812**, and if you desaturate by 10%, it is **86, 22.721, 104.899**.

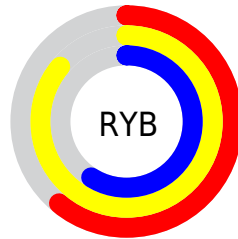
# Distribution



Red (86%)

Green (84%)

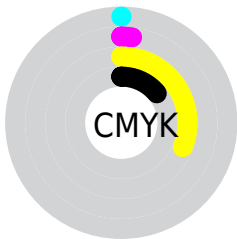
Blue (59%)



Red (61%)

Yellow (86%)

Blue (59%)

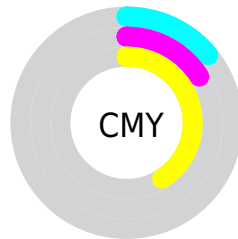


Cyan (0%)

Magenta (2%)

Yellow (31%)

Black (14%)



Cyan (14%)

Magenta (16%)

Yellow (41%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 85, 33.232, 103.848 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 85, 33.232, 103.848 by changing the saturation by 10% instead.




 85, 33.232,  
103.848


 85, 33.232,  
103.848


 100, 33.232,  
103.848


 75, 33.232,  
103.848

 65, 33.232,  
103.848

 55, 33.232,  
103.848

 45, 33.232,  
103.848

 35, 33.232,  
103.848

 25, 33.232,  
103.848

 15, 33.232,

103.848

■ 5, 33.232, 103.848

■ 0, 33.232, 103.848

■ 85, 33.232,  
103.848

■ 85, 33.232,  
103.848

■ 84, 43.519,  
102.812

■ 86, 22.721,  
104.899

■ 84, 53.386,  
101.798

■ 87, 12.102,  
105.937

■ 83, 62.530,  
100.834

■ 88, 1.449, 106.898

■ 82, 70.502, 99.944

■ 89, 9.193, 287.973

■ 82, 76.720, 99.153

■ 89, 16.728,  
288.123

■ 81, 80.621, 98.473

■ 90, 15.913,  
285.945

■ 81, 82.224, 97.960

■ 90, 15.124,  
283.542

■ 91, 14.364,  
280.888

■ 91, 13.638,  
277.952

# Harmonies

# Complementary

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



85, 33.232, 103.848



66, 35.474, 291.213

# Rectangle

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



85, 33.232, 103.848



85, 33.232, 153.848



85, 33.232, 283.848



85, 33.232, 333.848

# Sweetspot

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



85, 33.234, 103.852



99, 10.800, 106.171



69, 27.720, 15.724



53, 7.505, 106.022



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



85, 33.234, 103.852



96, 45.189, 103.128



84, 37.448, 124.541



46, 6.028, 106.135



65, 68.911, 98.043



17, 24.676, 100.101



# Inverse Universe

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



66, 35.474, 291.213



70, 49.135, 292.434



67, 39.475, 307.847



42, 6.143, 288.139



21, 96.836, 305.338

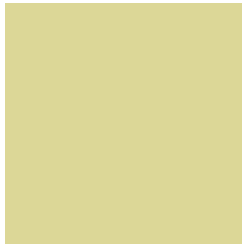


2, 28.114, 293.344



# Previews

## White Background



This preview shows how the CIELCh color 85, 33.232, 103.848 looks on a white background.

## Color Contrast Check

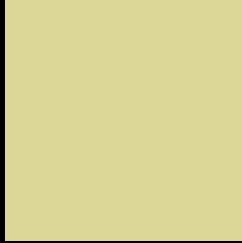
Large Text (above 18pt) WCAG AA × Fail

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 85, 33.232, 103.848 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

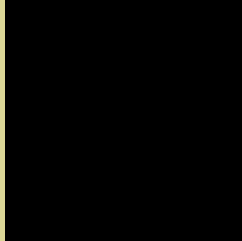
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 85, 33.232, 103.848

## Background



This preview shows how black text looks on a background with the CIELCh color 85, 33.232, 103.848.



This preview shows how white text looks on a background with the CIELCh color 85, 33.232, 103.848.

# 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**  
85, 33.232, 103.848

**Protanopia**  
85, 32.987, 95.348

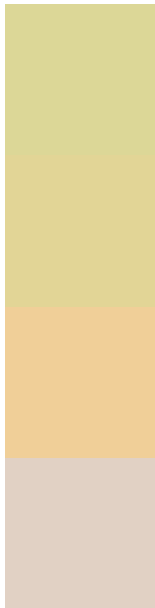
**Deuteranopia**  
85, 33.323, 70.984





**Tritanopia**  
85, 11.601, 333.819

# Trichromacy



**Original Color**  
85, 33.232, 103.848

**Protanomaly**  
85, 33.148, 98.233

**Deuteranomaly**  
85, 31.879, 82.780

**Tritanomaly**  
85, 9.086, 68.100

# Monochromacy



**Original Color**  
85, 33.232, 103.848

**Achromatopsia**  
84, 0.010, 296.813

**Achromatomaly**  
84, 12.078, 105.542

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 85, 33.232, 103.848 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(220, 215, 151)` looks like.

```
.text, #text, p{  
    color:rgb(220, 215, 151)  
}
```

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(220, 215, 151) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(220, 215, 151) }
```

## Border

The CSS property to change the border of an element to CIELCh 85, 33.232, 103.848 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(220, 215, 151) }
```

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

```
.border{ border-color:rgb(220, 215, 151) }
```

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

Here you see how a box with a 4 pixel `rgb(220, 215, 151)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(220, 215, 151); -webkit-box-  
shadow:4px 4px 4px 4px rgb(220, 215, 151);  
box-shadow:4px 4px 4px 4px rgb(220, 215,  
151) }
```

# Background

The CSS property to change the background color of an element to CIELCh 85, 33.232, 103.848 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(220, 215, 151) }
```

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

```
.background{ background-color: rgb(220,  
215, 151) }
```

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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