

# Converting Colors

CIELCh(83, 16.310, 88.718)

Have a look what the booklet for  
CIELCh(83, 16.310, 88.718) contains.

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# **Color**

**CIELCh(83, 16.340, 87.959)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	DCCDB0
RGB	220, 205, 176
RGB Percent	86%, 80%, 69%
CMY	0.1364, 0.1952, 0.3090
CMYK	0.00, 0.07, 0.20, 0.14
HSL	40°, 39%, 78%
HSV	40°, 20%, 86%
XYZ	59.3261, 62.1629, 50.0581
YIQ	206.1790, 18.2490, -5.8390

# Conversions

## Conversions Part 2

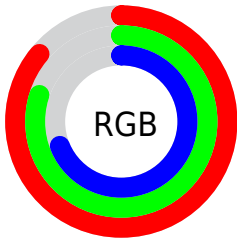
Format	Color
<a href="#">RYB</a>	<a href="#">199, 220, 176</a>
Decimal	<a href="#">14470576</a>
CIELab	<a href="#">83.00, 0.58, 16.33</a>
CIELCh	<a href="#">83, 16.340, 87.959</a>
Yxy	<a href="#">62.1629, 0.3458, 0.3624</a>
Android (android.graphics.Color)	<a href="#">4292660656 (0xFFDCCDB0)</a>
YUV	<a href="#">206.1790, -14.8782, 12.1210</a>
Hunter-Lab	<a href="#">78.8435, -3.6631, 17.5469</a>

# Details

The CIELCh color  $83, 16.340, 87.959$  is a light color, and the websafe version is hex `CCCC99`. A complement of this color would be  $77, 16.242, 273.392$ , and the grayscale version is  $83, 0.010, 296.813$ .

A 20% lighter version of the original color is  $99, 11.641, 109.297$ , and  $63, 16.656, 87.928$  is the 20% darker color. If you saturate the color by 10%, you get  $81, 24.783, 86.639$ , and if you desaturate by 10%, it is  $85, 8.069, 89.243$ .

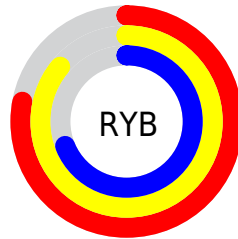
# Distribution



Red (86%)

Green (80%)

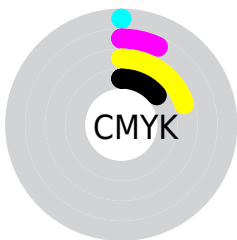
Blue (69%)



Red (78%)

Yellow (86%)

Blue (69%)

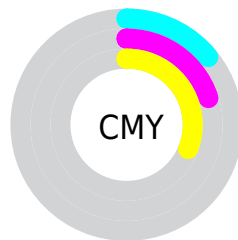


Cyan (0%)

Magenta (7%)

Yellow (20%)

Black (14%)



Cyan (14%)

Magenta (20%)

Yellow (31%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 83, 16.340, 87.959 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 83, 16.340, 87.959 by changing the saturation by 10% instead.



 83, 16.340, 87.959

 83, 16.340, 87.959

 100, 16.340,  
87.959

 73, 16.340, 87.959

 63, 16.340, 87.959

 53, 16.340, 87.959

 43, 16.340, 87.959

 33, 16.340, 87.959

 23, 16.340, 87.959

 13, 16.340, 87.959

 3, 16.340, 87.959

 0, 16.340, 87.959

83, 16.340, 87.959

83, 16.340, 87.959

81, 24.783, 86.639

85, 8.069, 89.243

78, 33.358, 85.268

88, 0.023, 282.235

76, 41.983, 83.855

90, 7.936, 271.755

74, 50.487, 82.385

93, 11.277,  
264.340

72, 58.547, 80.824

94, 9.741, 239.464

70, 65.605, 79.093

96, 10.356,  
212.437

68, 70.842, 77.045

98, 11.729,  
198.722

66, 73.852, 74.566

# Harmonies

# Complementary

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



83, 16.340, 87.959



77, 16.242, 273.392

# Rectangle

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



83, 16.340, 87.959



83, 16.340, 137.959



83, 16.340, 267.959



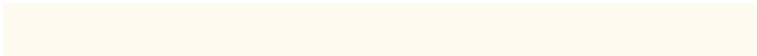
83, 16.340, 317.959

# Sweetspot

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



83, 16.341, 87.968



98, 5.434, 89.718



76, 18.473, 354.572



52, 3.607, 89.641



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



83, 16.341, 87.968



93, 22.206, 87.413



86, 22.998, 114.565



45, 4.569, 89.312



53, 61.794, 75.083



13, 19.399, 77.804





# Inverse Universe

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



77, 16.242, 273.392



86, 22.037, 274.113



74, 24.044, 297.761



43, 4.565, 271.793



30, 72.028, 296.002

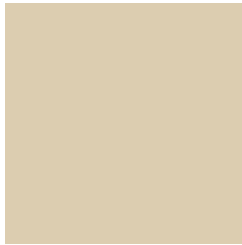


5, 22.448, 285.040



# Previews

## White Background



This preview shows how the CIELCh color 83, 16.340, 87.959 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 83, 16.340, 87.959 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

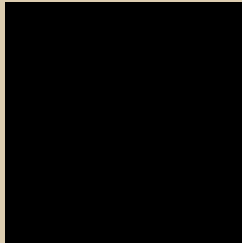
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**CIELCh 83, 16.340, 87.959**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 83, 16.340, 87.959.



This preview shows how white text looks on a background with the CIELCh color 83, 16.340, 87.959.

# 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**

83, 16.340, 87.959

**Protanopia**

83, 15.831, 93.253

**Deuteranopia**

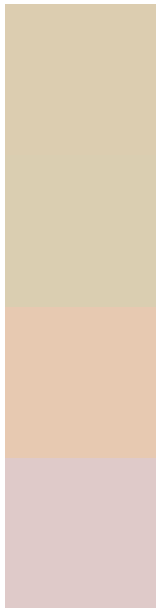
83, 18.994, 57.535



**Tritanopia**  
83, 12.089, 339.447



# Trichromacy



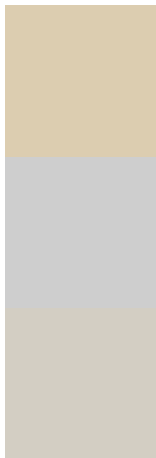
**Original Color**  
83, 16.340, 87.959

**Protanomaly**  
83, 15.940, 91.905

**Deuteranomaly**  
83, 17.317, 66.494

**Tritanomaly**  
83, 7.831, 23.772

# Monochromacy



**Original Color**  
83, 16.340, 87.959

**Achromatopsia**  
83, 0.010, 296.813

**Achromatomaly**  
83, 6.071, 91.790

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 83, 16.340, 87.959 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, 205, 176)` looks like.

```
.text, #text, p{  
    color:rgb(220, 205, 176)  
}
```

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, 205, 176) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(220, 205, 176) }
```

## Border

The CSS property to change the border of an element to CIELCh 83, 16.340, 87.959 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, 205, 176) }
```

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

```
.border{ border-color:rgb(220, 205, 176) }
```

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

Here you see how a box with a 4 pixel rgb(220, 205, 176) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(220, 205, 176); -webkit-box-  
shadow:4px 4px 4px 4px rgb(220, 205, 176);  
box-shadow:4px 4px 4px 4px rgb(220, 205,  
176) }
```

# Background

The CSS property to change the background color of an element to CIELCh 83, 16.340, 87.959 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(220, 205, 176) }
```

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

```
.background{ background-color: rgb(220,  
205, 176) }
```

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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