

# Converting Colors

CIELCh(83, 18.988, 99.490)

Have a look what the booklet for  
CIELCh(83, 18.988, 99.490) contains.

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# Color

**CIELCh(83, 18.640, 98.945)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	D7CFAC
RGB	215, 207, 172
RGB Percent	84%, 81%, 67%
CMY	0.1562, 0.1876, 0.3249
CMYK	0.00, 0.04, 0.20, 0.16
HSL	49°, 35%, 76%
HSV	49°, 20%, 84%
XYZ	57.8883, 62.1629, 48.0582
YIQ	205.4020, 16.0030, -9.1890

# Conversions

## Conversions Part 2

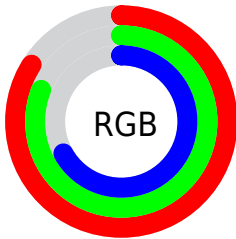
Format	Color
<a href="#">RYB</a>	<a href="#">182, 215, 172</a>
Decimal	<a href="#">14143404</a>
CIELab	<a href="#">83.00, -2.90, 18.41</a>
CIELCh	<a href="#">83, 18.640, 98.945</a>
Yxy	<a href="#">62.1629, 0.3443, 0.3698</a>
Android (android.graphics.Color)	<a href="#">4292333484 (0xFFD7CFAC)</a>
YUV	<a href="#">205.4020, -16.4672, 8.4174</a>
Hunter-Lab	<a href="#">78.8435, -6.9182, 19.0509</a>

# Details

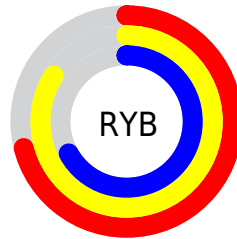
The CIELCh color **83, 18.640, 98.945** is a light color, and the websafe version is hex **CCCC99**. A complement of this color would be **74, 19.099, 283.815**, and the grayscale version is **83, 0.010, 296.813**.

A 20% lighter version of the original color is **99, 14.168, 109.107**, and **63, 18.536, 99.083** is the 20% darker color. If you saturate the color by 10%, you get **82, 28.010, 97.771**, and if you desaturate by 10%, it is **84, 9.283, 100.098**.

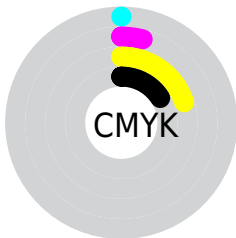
# Distribution



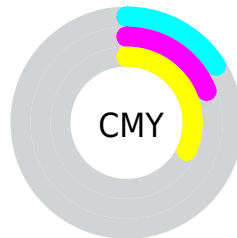
- Red (84%)
- Green (81%)
- Blue (67%)



- Red (71%)
- Yellow (84%)
- Blue (67%)



- Cyan (0%)
- Magenta (4%)
- Yellow (20%)
- Black (16%)



- Cyan (16%)
- Magenta (19%)
- Yellow (32%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 83, 18.640, 98.945 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, 18.640, 98.945 by changing the saturation by 10% instead.



 83, 18.640, 98.945

 83, 18.640, 98.945

 100, 18.640,  
98.945

 73, 18.640, 98.945

 63, 18.640, 98.945

 53, 18.640, 98.945

 43, 18.640, 98.945

 33, 18.640, 98.945

 23, 18.640, 98.945

 13, 18.640, 98.945

 3, 18.640, 98.945

 0, 18.640, 98.945

83, 18.640, 98.945

83, 18.640, 98.945

82, 28.010, 97.771

84, 9.283, 100.098

80, 37.311, 96.568

86, 0.022, 288.445

79, 46.403, 95.352

88, 9.249, 282.331

78, 55.049, 94.129

89, 16.732,  
282.336

76, 62.862, 92.898

90, 14.907,  
275.732

75, 69.264, 91.645

91, 13.330,  
267.484

74, 73.561, 90.334

73, 75.592, 88.923

92, 12.092,  
257.358

73, 75.594, 88.922

93, 11.301,  
245.452

94, 11.046,



# Harmonies

# Complementary

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



83, 18.640, 98.945



74, 19.099, 283.815

# Rectangle

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



83, 18.640, 98.945



83, 18.640, 148.945



83, 18.640, 278.945



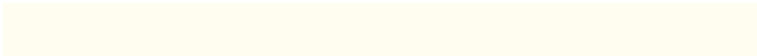
83, 18.640, 328.945

# Sweetspot

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



83, 18.641, 98.952



99, 6.387, 100.531



74, 17.077, 5.263



53, 4.238, 100.460



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, 18.641, 98.952



96, 25.714, 98.454



84, 23.011, 120.649



44, 5.255, 100.162



59, 63.744, 89.173



14, 20.678, 92.444



# Inverse Universe

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



74, 19.099, 283.815



83, 26.496, 284.471



73, 23.917, 303.076



42, 5.320, 282.364



24, 87.563, 302.739

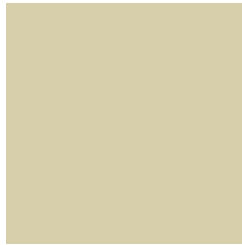


3, 24.060, 289.435



# Previews

## White Background



This preview shows how the CIELCh color 83, 18.640, 98.945 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, 18.640, 98.945 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

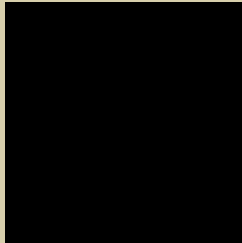
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

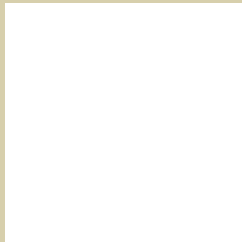
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 83, 18.640, 98.945

## Background



This preview shows how black text looks on a background with the CIELCh color 83, 18.640, 98.945.

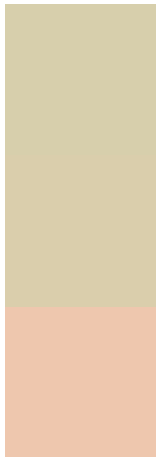


This preview shows how white text looks on a background with the CIELCh color 83, 18.640, 98.945.

# 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, 18.640, 98.945

### Protanopia

83, 18.475, 93.927

### Deuteranopia

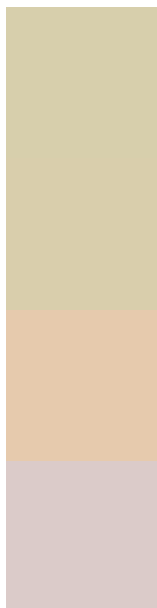
83, 20.386, 60.104





**Tritanopia**  
83, 11.168, 331.062

# Trichromacy



**Original Color**  
83, 18.640, 98.945

**Protanomaly**  
83, 18.379, 95.111

**Deuteranomaly**  
83, 18.899, 73.244

**Tritanomaly**  
83, 6.023, 29.810

# Monochromacy



**Original Color**  
83, 18.640, 98.945

**Achromatopsia**  
83, 0.010, 296.813

**Achromatomaly**  
83, 6.410, 99.570

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 83, 18.640, 98.945 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(215, 207, 172)` looks like.

```
.text, #text, p{  
    color:rgb(215, 207, 172)  
}
```

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(215, 207, 172) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(215, 207, 172) }
```

## Border

The CSS property to change the border of an element to CIELCh 83, 18.640, 98.945 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(215, 207, 172) }
```

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

```
.border{ border-color:rgb(215, 207, 172) }
```

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

Here you see how a box with a 4 pixel `rgb(215, 207, 172)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(215, 207, 172); -webkit-box-  
shadow:4px 4px 4px 4px rgb(215, 207, 172);  
box-shadow:4px 4px 4px 4px rgb(215, 207,  
172) }
```

# Background

The CSS property to change the background color of an element to CIELCh 83, 18.640, 98.945 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(215, 207, 172) }
```

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

```
.background{ background-color: rgb(215,  
207, 172) }
```

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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