

# Converting Colors

CIELCh(83, 17.618, 86.639)

Have a look what the booklet for  
CIELCh(83, 17.618, 86.639) contains.

<b>CIELCh(83, 17.618, 86.639)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	11
<b><i>Previews</i></b> .....	20
<b><i>Color Blindness Simulation</i></b> .....	23
<b><i>CSS Examples</i></b> .....	26

# **Color**

**CIELCh(83, 17.618, 86.639)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DECDAE
RGB	222, 205, 174
RGB Percent	87%, 80%, 68%
CMY	0.1299, 0.1966, 0.3181
CMYK	0.00, 0.08, 0.22, 0.13
HSL	39°, 42%, 78%
HSV	39°, 22%, 87%
XYZ	59.5141, 62.1629, 48.8441
YIQ	206.5490, 20.0830, -6.0370

# Conversions

## Conversions Part 2

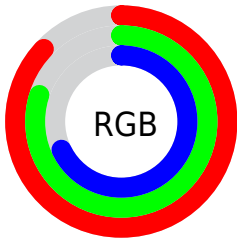
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	200, 222, 174
Decimal	14601646
CIE Lab	83.00, 1.03, 17.59
CIE LCh	83, 17.618, 86.639
Yxy	62.1629, 0.3490, 0.3645
Android (android.graphics.Color)	4292791726 (0xFFDECD4E)
YUV	206.5490, -16.0467, 13.5505
Hunter-Lab	78.8435, -3.2374, 18.4598

# Details

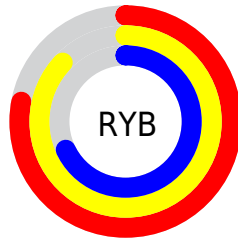
The CIELCh color  $83, 17.618, 86.639$  is a light color, and the websafe version is hex `CCCC99`. A complement of this color would be  $77, 17.438, 272.601$ , and the grayscale version is  $83, 0.010, 296.813$ .

A 20% lighter version of the original color is  $99, 12.652, 109.221$ , and  $63, 17.333, 87.168$  is the 20% darker color. If you saturate the color by 10%, you get  $81, 26.064, 85.305$ , and if you desaturate by 10%, it is  $85, 9.357, 87.940$ .

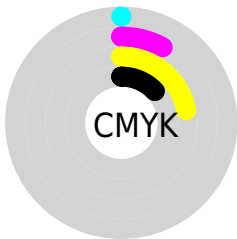
# Distribution



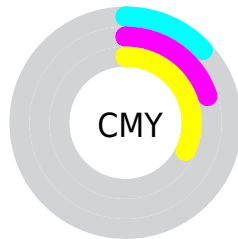
- Red (87%)
- Green (80%)
- Blue (68%)



- Red (78%)
- Yellow (87%)
- Blue (68%)



- Cyan (0%)
- Magenta (8%)
- Yellow (22%)
- Black (13%)



- Cyan (13%)
- Magenta (20%)
- Yellow (32%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 83, 17.618, 86.639 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, 17.618, 86.639 by changing the saturation by 10% instead.



 83, 17.618, 86.639

 83, 17.618, 86.639

 100, 17.618,  
86.639

 73, 17.618, 86.639

 63, 17.618, 86.639

 53, 17.618, 86.639

 43, 17.618, 86.639

 33, 17.618, 86.639

 23, 17.618, 86.639

 13, 17.618, 86.639

 3, 17.618, 86.639

 0, 17.618, 86.639

83, 17.618, 86.639

83, 17.618, 86.639

81, 26.064, 85.305

85, 9.357, 87.940

78, 34.652, 83.921

88, 1.288, 89.017

76, 43.295, 82.492

91, 6.591, 270.488

74, 51.805, 81.002

93, 10.706,  
263.899

72, 59.834, 79.407

95, 9.252, 236.193

69, 66.777, 77.612

97, 10.261,  
207.426

68, 71.771, 75.446

66, 74.268, 73.290

98, 11.195,  
198.758

# Harmonies

# Complementary

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



83, 17.618, 86.639



77, 17.438, 272.601

# Rectangle

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



83, 17.618, 86.639



83, 17.618, 136.639



83, 17.618, 266.639



83, 17.618, 316.639

# Sweetspot

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



83, 17.619, 86.647



98, 5.363, 88.623



76, 20.336, 353.664



52, 3.561, 88.545



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, 17.619, 86.647



93, 23.838, 86.039



87, 24.991, 113.743



46, 4.597, 88.212



53, 62.452, 73.806



13, 20.546, 76.415





# Inverse Universe

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



77, 17.438, 272.601



85, 23.534, 273.412



73, 26.244, 297.339



44, 4.586, 270.717



31, 71.336, 295.264

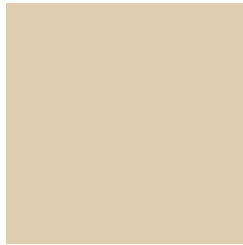


6, 23.480, 285.554



# Previews

## White Background



This preview shows how the CIELCh color 83, 17.618, 86.639 looks on a white background.

## Color Contrast Check

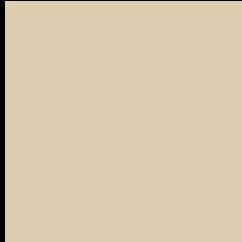
Large Text (above 18pt) WCAG AA × Fail

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, 17.618, 86.639 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

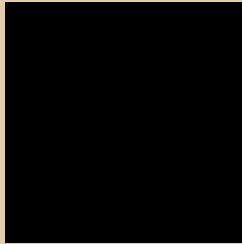
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

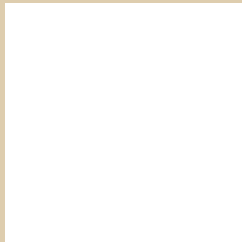
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 83, 17.618, 86.639**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 83, 17.618, 86.639.



This preview shows how white text looks on a background with the CIELCh color 83, 17.618, 86.639.

# 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, 17.618, 86.639

### Protanopia

83, 16.952, 92.795

### Deuteranopia

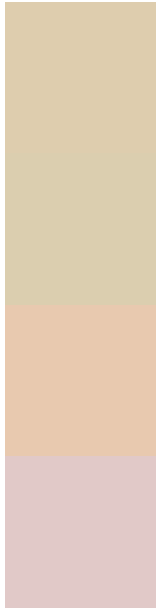
83, 20.022, 59.053



**Tritanopia**  
83, 13.267, 340.938



# Trichromacy



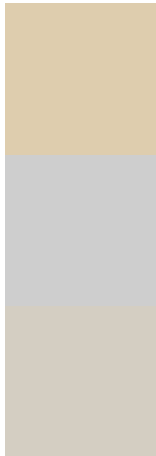
**Original Color**  
83, 17.618, 86.639

**Protanomaly**  
83, 17.065, 91.532

**Deuteranomaly**  
83, 18.403, 67.645

**Tritanomaly**  
83, 8.976, 23.380

# Monochromacy



**Original Color**  
83, 17.618, 86.639

**Achromatopsia**  
83, 0.010, 296.813

**Achromatomaly**  
83, 6.690, 90.038

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 83, 17.618, 86.639 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(222, 205, 174)` looks like.

```
.text, #text, p{  
    color:rgb(222, 205, 174)  
}
```

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(222, 205, 174) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 205, 174) }
```

## Border

The CSS property to change the border of an element to CIELCh 83, 17.618, 86.639 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(222, 205, 174) }
```

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

```
.border{ border-color:rgb(222, 205, 174) }
```

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

Here you see how a box with a 4 pixel `rgb(222, 205, 174)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(222, 205, 174); -webkit-box-shadow:4px 4px 4px 4px rgb(222, 205, 174); box-shadow:4px 4px 4px 4px rgb(222, 205, 174) }
```

# Background

The CSS property to change the background color of an element to CIELCh 83, 17.618, 86.639 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 205, 174) }
```

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

```
.background{ background-color: rgb(222,  
205, 174) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor