

# Converting Colors

CIELCh(82, 23.758, 89.449)

Have a look what the booklet for  
CIELCh(82, 23.758, 89.449) contains.

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# Color

**CIELCh(82, 23.416, 89.323)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DDCAA0
RGB	221, 202, 160
RGB Percent	87%, 79%, 63%
CMY	0.1324, 0.2070, 0.3717
CMYK	0.00, 0.09, 0.28, 0.13
HSL	41°, 47%, 75%
HSV	41°, 28%, 87%
XYZ	57.4243, 60.2982, 41.9679
YIQ	202.8930, 24.8060, -9.0340

# Conversions

## Conversions Part 2

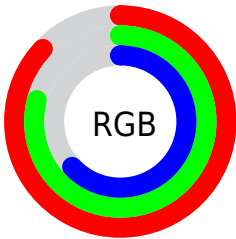
<b>Format</b>	<b>Color</b>
<b>RYB</b>	188, 221, 160
Decimal	14535328
CIELab	82.00, 0.28, 23.41
CIELCh	82, 23.416, 89.323
Yxy	60.2982, 0.3596, 0.3776
Android (android.graphics.Color)	4292725408 (0xFFDDCAA0)
YUV	202.8930, -21.1462, 15.8798
Hunter-Lab	77.6519, -3.8884, 22.3124

# Details

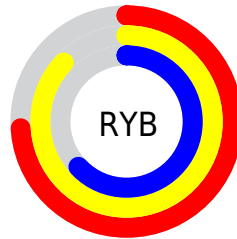
The CIELCh color **82, 23.416, 89.323** is a light color, and the websafe version is hex **CCCC99**. A complement of this color would be **73, 23.443, 276.977**, and the grayscale version is **82, 0.010, 296.813**.

A 20% lighter version of the original color is **99, 20.216, 108.647**, and **62, 23.483, 89.519** is the 20% darker color. If you saturate the color by 10%, you get **80, 32.149, 87.987**, and if you desaturate by 10%, it is **84, 14.793, 90.629**.

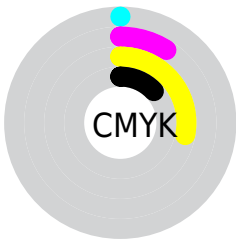
# Distribution



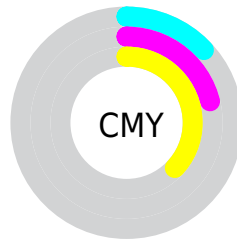
- Red (87%)
- Green (79%)
- Blue (63%)



- Red (74%)
- Yellow (87%)
- Blue (63%)



- Cyan (0%)
- Magenta (9%)
- Yellow (28%)
- Black (13%)



- Cyan (13%)
- Magenta (21%)
- Yellow (37%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 82, 23.416, 89.323 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 82, 23.416, 89.323 by changing the saturation by 10% instead.



 82, 23.416, 89.323

 82, 23.416, 89.323

 100, 23.416,  
89.323

 72, 23.416, 89.323

 62, 23.416, 89.323

 52, 23.416, 89.323

 42, 23.416, 89.323

 32, 23.416, 89.323

 22, 23.416, 89.323

 12, 23.416, 89.323

 2, 23.416, 89.323

 0, 23.416, 89.323

82, 23.416, 89.323

82, 23.416, 89.323

80, 32.149, 87.987

84, 14.793, 90.629

78, 40.908, 86.605

86, 6.313, 91.871

76, 49.534, 85.176

89, 2.010, 273.248

74, 57.729, 83.675

91, 10.176,  
274.319

72, 64.984, 82.048

93, 10.686,  
261.764

70, 70.534, 80.184

68, 73.659, 77.930

95, 9.442, 237.683

68, 74.253, 77.363

97, 10.082,  
212.254

98, 11.404,  
198.744

# Harmonies

# Complementary

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



82, 23.416, 89.323



73, 23.443, 276.977

# Rectangle

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



82, 23.416, 89.323



82, 23.416, 139.323



82, 23.416, 269.323



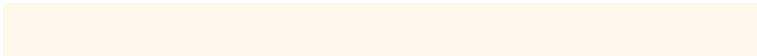
82, 23.416, 319.323

# Sweetspot

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



82, 23.417, 89.329



98, 7.482, 91.813



72, 25.479, 357.787



52, 5.326, 91.629



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



82, 23.417, 89.329



92, 31.585, 88.571



86, 31.843, 115.401



45, 4.705, 91.648



54, 61.947, 77.843



13, 19.799, 80.842





# Inverse Universe

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



73, 23.443, 276.977



80, 31.649, 278.070



69, 33.879, 299.684



43, 4.714, 274.086



29, 75.423, 297.612



5, 23.165, 286.368



# Previews

## White Background



This preview shows how the CIELCh color 82, 23.416, 89.323 looks on a white background.

## Color Contrast Check

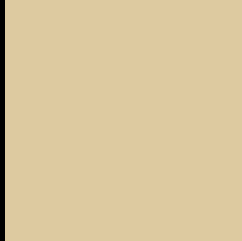
Large Text (above 18pt) WCAG AA × Fail

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 82, 23.416, 89.323 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

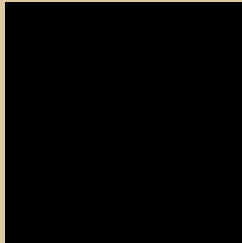
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 82, 23.416, 89.323

## Background



This preview shows how black text looks on a background with the CIELCh color 82, 23.416, 89.323.



This preview shows how white text looks on a background with the CIELCh color 82, 23.416, 89.323.

# 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

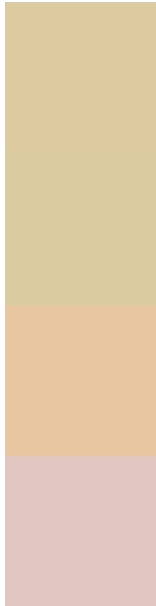




**Tritanopia**  
82, 14.476, 344.831



# Trichromacy



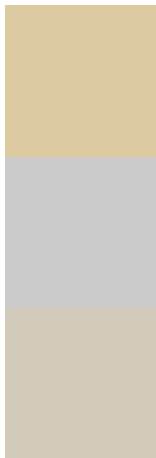
**Original Color**  
82, 23.416, 89.323

**Protanomaly**  
82, 23.021, 92.168

**Deuteranomaly**  
82, 23.974, 73.765

**Tritanomaly**  
82, 10.551, 34.536

# Monochromacy



**Original Color**  
82, 23.416, 89.323

**Achromatopsia**  
82, 0.010, 296.813

**Achromatomaly**  
82, 8.839, 92.008

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 82, 23.416, 89.323 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(221, 202, 160)` looks like.

```
.text, #text, p{  
    color:rgb(221, 202, 160)  
}
```

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(221, 202, 160) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(221, 202, 160) }
```

## Border

The CSS property to change the border of an element to CIELCh 82, 23.416, 89.323 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(221, 202, 160) }
```

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

```
.border{ border-color:rgb(221, 202, 160) }
```

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

Here you see how a box with a 4 pixel `rgb(221, 202, 160)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(221, 202, 160); -webkit-box-shadow:4px 4px 4px 4px rgb(221, 202, 160); box-shadow:4px 4px 4px 4px rgb(221, 202, 160) }
```

# Background

The CSS property to change the background color of an element to CIELCh 82, 23.416, 89.323 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(221, 202, 160) }
```

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

```
.background{ background-color: rgb(221,  
202, 160) }
```

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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