

# Converting Colors

CIELCh(80, 24.161, 90.060)

Have a look what the booklet for  
CIELCh(80, 24.161, 90.060) contains.

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# Color

**CIELCh(80, 24.405, 90.793)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D7C599
RGB	215, 197, 153
RGB Percent	84%, 77%, 60%
CMY	0.1569, 0.2274, 0.4000
CMYK	0.00, 0.08, 0.29, 0.16
HSL	43°, 44%, 72%
HSV	43°, 29%, 84%
XYZ	53.7420, 56.6813, 38.2460
YIQ	197.3660, 24.8520, -9.8680

# Conversions

## Conversions Part 2

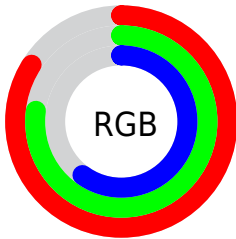
Format	Color
<a href="#">RYB</a>	<a href="#">178, 215, 153</a>
Decimal	<a href="#">14140825</a>
CIELab	<a href="#">80.00, -0.34, 24.40</a>
CIElCh	<a href="#">80, 24.405, 90.793</a>
Yxy	<a href="#">56.6813, 0.3615, 0.3813</a>
Android (android.graphics.Color)	<a href="#">4292330905 (0xFFD7C599)</a>
YUV	<a href="#">197.3660, -21.8724, 15.4650</a>
Hunter-Lab	<a href="#">75.2870, -4.3337, 22.5814</a>

# Details

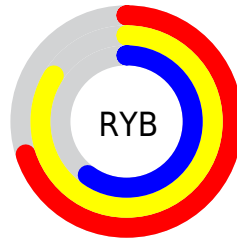
The CIELCh color  $80, 24.405, 90.793$  is a light color, and the websafe version is hex `CCCC99`. A complement of this color would be  $70, 24.607, 278.726$ , and the grayscale version is  $80, 0.010, 296.813$ .

A 20% lighter version of the original color is  $99, 23.247, 107.489$ , and  $60, 24.022, 90.692$  is the 20% darker color. If you saturate the color by 10%, you get  $78, 33.059, 89.473$ , and if you desaturate by 10%, it is  $82, 15.824, 92.085$ .

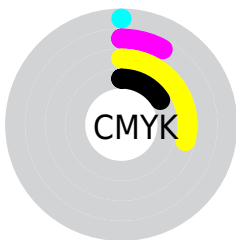
# Distribution



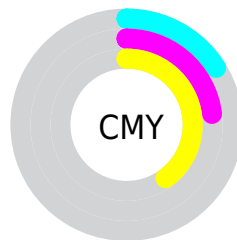
- Red (84%)
- Green (77%)
- Blue (60%)



- Red (70%)
- Yellow (84%)
- Blue (60%)



- Cyan (0%)
- Magenta (8%)
- Yellow (29%)
- Black (16%)



- Cyan (16%)
- Magenta (23%)
- Yellow (40%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 80, 24.405, 90.793 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 80, 24.405, 90.793 by changing the saturation by 10% instead.



 80, 24.405, 90.793

 80, 24.405, 90.793

 100, 24.405,  
90.793

 70, 24.405, 90.793

 60, 24.405, 90.793

 50, 24.405, 90.793

 40, 24.405, 90.793

 30, 24.405, 90.793

 20, 24.405, 90.793

 10, 24.405, 90.793

 0, 24.405, 90.793

 80, 24.405, 90.793

 80, 24.405, 90.793

78, 33.059, 89.473

82, 15.824, 92.085

76, 41.690, 88.109

84, 7.358, 93.320

74, 50.119, 86.702

86, 0.971, 274.786

72, 58.028, 85.228

88, 9.161, 275.738

71, 64.881, 83.635

90, 14.488,  
273.567

69, 69.922, 81.822

92, 12.315,  
259.130

68, 72.643, 79.676

67, 72.916, 79.423

94, 11.178,  
240.439

95, 11.370,  
220.275

97, 12.806,  
202.863

# Harmonies

# Complementary

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



80, 24.405, 90.793



70, 24.607, 278.726

# Rectangle

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



80, 24.405, 90.793



80, 24.405, 140.793



80, 24.405, 270.793



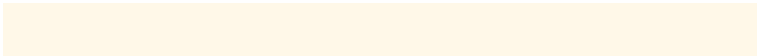
80, 24.405, 320.793

# Sweetspot

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



80, 24.406, 90.799



98, 8.609, 93.290



70, 25.901, 359.118



52, 5.991, 93.112



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



80, 24.406, 90.799



92, 34.156, 89.941



84, 32.571, 116.017



44, 4.714, 93.250



54, 61.488, 79.850



13, 18.771, 83.071





# Inverse Universe

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



70, 24.607, 278.726



78, 34.546, 279.990



66, 34.731, 300.370



42, 4.734, 275.646



27, 76.890, 298.633



4, 22.095, 286.076



# Previews

## White Background



This preview shows how the CIELCh color 80, 24.405, 90.793 looks on a white background.

## Color Contrast Check

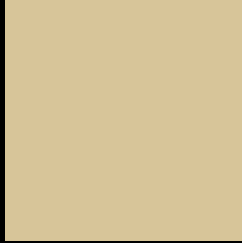
Large Text (above 18pt) WCAG AA × Fail

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 80, 24.405, 90.793 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

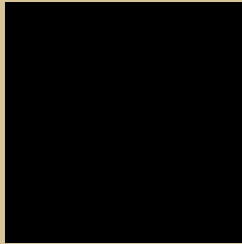
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 80, 24.405, 90.793

## Background



This preview shows how black text looks on a background with the CIELCh color 80, 24.405, 90.793.



This preview shows how white text looks on a background with the CIELCh color 80, 24.405, 90.793.

# 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

80, 24.405, 90.793

### Protanopia

80, 23.936, 94.502

### Deuteranopia

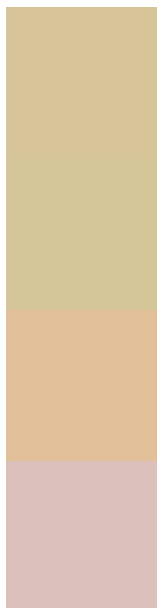
80, 25.870, 67.176



**Tritanopia**  
80, 13.947, 345.718



# Trichromacy



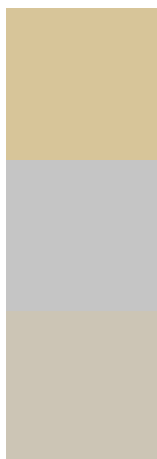
**Original Color**  
80, 24.405, 90.793

**Protanomaly**  
80, 24.037, 93.568

**Deuteranomaly**  
80, 24.776, 75.666

**Tritanomaly**  
80, 10.599, 40.505

# Monochromacy



**Original Color**  
80, 24.405, 90.793

**Achromatopsia**  
80, 0.010, 296.813

**Achromatomaly**  
80, 8.890, 91.972

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 80, 24.405, 90.793 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, 197, 153)` looks like.

```
.text, #text, p{  
    color:rgb(215, 197, 153)  
}
```

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, 197, 153) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(215, 197, 153) }
```

## Border

The CSS property to change the border of an element to CIELCh 80, 24.405, 90.793 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, 197, 153) }
```

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

```
.border{ border-color:rgb(215, 197, 153) }
```

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

Here you see how a box with a 4 pixel `rgb(215, 197, 153)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(215, 197, 153); -webkit-box-  
shadow:4px 4px 4px 4px rgb(215, 197, 153);  
box-shadow:4px 4px 4px 4px rgb(215, 197,  
153) }
```

# Background

The CSS property to change the background color of an element to CIELCh 80, 24.405, 90.793 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(215, 197, 153) }
```

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

```
.background{ background-color: rgb(215,  
197, 153) }
```

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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