

# Converting Colors

CIELCh(70, 48.789, 77.300)

Have a look what the booklet for  
CIELCh(70, 48.789, 77.300) contains.

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# Color

**CIELCh(70, 48.960, 77.310)**

# Conversions

## Conversions Part 1

Format	Color
Hex	D6A253
RGB	214, 162, 83
RGB Percent	84%, 64%, 33%
CMY	0.1609, 0.3648, 0.6746
CMYK	0.00, 0.24, 0.61, 0.16
HSL	36°, 61%, 58%
HSV	36°, 61%, 84%
XYZ	42.2011, 40.7494, 13.8204
YIQ	168.5420, 56.3510, -13.5450

# Conversions

## Conversions Part 2

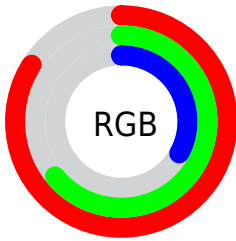
Format	Color
R <sub>Y</sub> B	169, 214, 83
Decimal	14066259
CIE Lab	70.00, 10.76, 47.76
CIE LCh	70, 48.960, 77.310
Yxy	40.7494, 0.4361, 0.4211
Android (android.graphics.Color)	4292256339 (0xFFD6A253)
YUV	168.5420, -42.1722, 39.8667
Hunter-Lab	63.8353, 6.2936, 31.8483

# Details

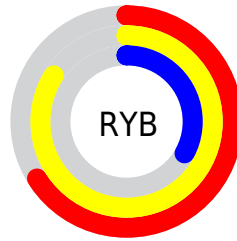
The CIELCh color **70, 48.960, 77.310** is a light color, and the websafe version is hex **CC9933**. The color can be described as light muted orange. A complement of this color would be **56, 46.268, 278.485**, and the grayscale version is **69, 0.009, 296.813**.

A 20% lighter version of the original color is **88, 45.227, 86.205**, and **50, 49.213, 77.602** is the 20% darker color. If you saturate the color by 10%, you get **68, 56.946, 75.719**, and if you desaturate by 10%, it is **72, 40.656, 78.799**.

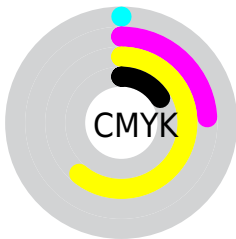
# Distribution



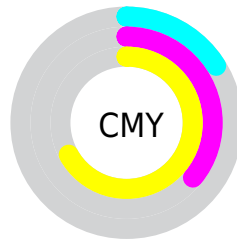
- Red (84%)
- Green (64%)
- Blue (33%)



- Red (66%)
- Yellow (84%)
- Blue (33%)



- Cyan (0%)
- Magenta (24%)
- Yellow (61%)
- Black (16%)



- Cyan (16%)
- Magenta (36%)
- Yellow (67%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 70, 48.960, 77.310 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 70, 48.960, 77.310 by changing the saturation by 10% instead.



 70, 48.960, 77.310

 70, 48.960, 77.310

 100, 48.960,  
77.310

 60, 48.960, 77.310

 90, 48.960, 77.310

 50, 48.960, 77.310

 40, 48.960, 77.310

 30, 48.960, 77.310

 20, 48.960, 77.310

 10, 48.960, 77.310

 0, 48.960, 77.310

 70, 48.960, 77.310

 70, 48.960, 77.310

 68, 56.946, 75.719

 72, 40.656, 78.799

66, 64.065, 73.910

75, 32.337, 80.224

63, 69.473, 71.687

77, 24.154, 81.606

62, 72.549, 69.324

80, 16.174, 82.950

83, 8.421, 84.244

85, 0.894, 85.212

88, 6.418, 266.822

91, 13.530,  
267.973

93, 11.672,  
246.405

# Harmonies

# Complementary

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



70, 48.960, 77.310



56, 46.268, 278.485

# Rectangle

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



70, 48.960, 77.310



70, 48.960, 127.310



70, 48.960, 257.310



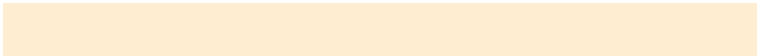
70, 48.960, 307.310

# Sweetspot

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



70, 48.960, 77.314



94, 15.745, 83.349



54, 56.242, 357.851



50, 10.990, 82.963



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



70, 48.960, 77.314



79, 67.172, 75.291



82, 64.966, 109.413



44, 4.251, 84.469



50, 61.291, 69.891



11, 17.480, 71.523





# Inverse Universe

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



56, 46.268, 278.485



60, 64.061, 282.801



44, 77.588, 301.906



42, 4.219, 267.002



32, 64.695, 292.393

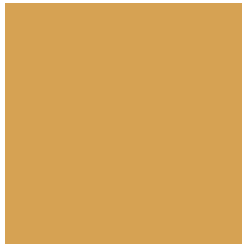


5, 19.729, 280.866



# Previews

## White Background



This preview shows how the CIELCh color 70, 48.960, 77.310 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 CIE LCh color 70, 48.960, 77.310 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 70, 48.960, 77.310

## Background



This preview shows how black text looks on a background with the CIELCh color 70, 48.960, 77.310.



This preview shows how white text looks on a background with the CIELCh color 70, 48.960, 77.310.

# 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

70, 48.960, 77.310

### Protanopia

70, 46.139, 96.198

### Deuteranopia

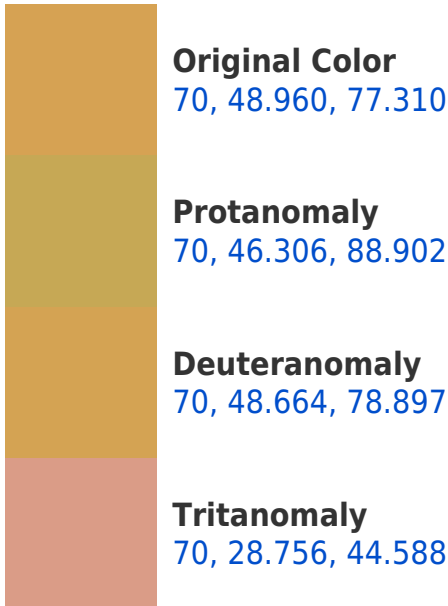
70, 48.439, 79.356



**Tritanopia**  
70, 27.031, 8.249



# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 70, 48.960, 77.310 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(214, 162, 83)` looks like.

```
.text, #text, p{  
    color:rgb(214, 162, 83)  
}
```

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(214, 162, 83) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(214, 162, 83) }
```

## Border

The CSS property to change the border of an element to CIELCh 70, 48.960, 77.310 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(214, 162, 83) }
```

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

```
.border{ border-color:rgb(214, 162, 83) }
```

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

Here you see how a box with a 4 pixel `rgb(214, 162, 83)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(214, 162, 83); -webkit-box-  
shadow:4px 4px 4px 4px rgb(214, 162, 83);  
box-shadow:4px 4px 4px 4px rgb(214, 162,  
83) }
```

# Background

The CSS property to change the background color of an element to CIELCh 70, 48.960, 77.310 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(214, 162, 83) }
```

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

```
.background{ background-color: rgb(214,  
162, 83) }
```

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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