

# Converting Colors

CIELCh(50, 20.943, 107.009)

Have a look what the booklet for  
CIELCh(50, 20.943, 107.009)  
contains.

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**Color**

**CIELCh(50, 20.760, 107.431)**

# Conversions

Conversions Part 1	
Format	Color
Hex	797955
RGB	121, 121, 85
RGB Percent	47%, 47%, 33%
CMY	0.5252, 0.5252, 0.6664
CMYK	0.00, 0.00, 0.30, 0.53
HSL	60°, 17%, 40%
HSV	60°, 30%, 47%
XYZ	16.3832, 18.4187, 11.2997
YIQ	116.8960, 11.5560, -11.1960

# Conversions

## Conversions Part 2

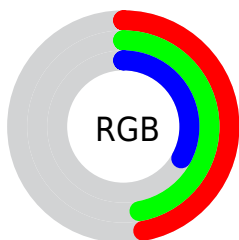
Format	Color
<a href="#">RYB</a>	<a href="#">85, 121, 85</a>
Decimal	<a href="#">7960917</a>
CIELab	<a href="#">50.00, -6.22, 19.81</a>
CIELCh	<a href="#">50, 20.760, 107.431</a>
Yxy	<a href="#">18.4187, 0.3554, 0.3995</a>
Android (android.graphics.Color)	<a href="#">4286150997</a> <a href="#">(0xFF797955)</a>
YUV	<a href="#">116.8960, -15.7247, 3.5992</a>
Hunter-Lab	<a href="#">42.9170, -6.9637, 14.4313</a>

# Details

The CIELCh color **50, 20.760, 107.431** is a dark color, and the websafe version is hex **666633**. A complement of this color would be **38, 22.231, 293.630**, and the grayscale version is **49, 0.007, 296.813**.

A 20% lighter version of the original color is **70, 20.610, 106.956**, and **30, 21.153, 107.535** is the 20% darker color. If you saturate the color by 10%, you get **50, 27.520, 106.529**, and if you desaturate by 10%, it is **50, 13.848, 108.358**.

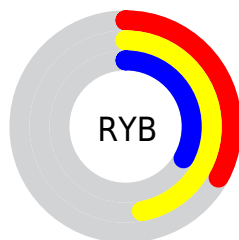
# Distribution



Red (47%)

Green (47%)

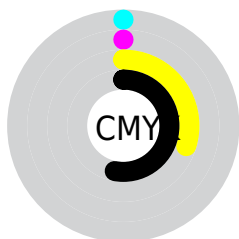
Blue (33%)



Red (33%)

Yellow (47%)

Blue (33%)

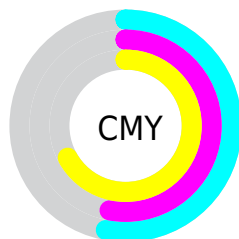


Cyan (0%)

Magenta (0%)

Yellow (30%)

Black (53%)



Cyan (53%)

Magenta (53%)


Yellow (67%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 50, 20.760, 107.431 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 50, 20.760, 107.431 by changing the saturation by 10% instead.





 50, 20.760,  
107.431


 50, 20.760,  
107.431


 100, 20.760,  
107.431


 40, 20.760,  
107.431


 70, 20.760,  
107.431

 30, 20.760,  
107.431


 80, 20.760,  
107.431


 20, 20.760,  
107.431


 90, 20.760,  
107.431


 10, 20.760,  
107.431


 0, 20.760, 107.431

 50, 20.760,  
107.431


 50, 20.760,  
107.431

 50, 27.520,  
106.529

 50, 13.848,  
108.358


 50, 34.020,  
105.662


 51, 6.850, 109.281

 49, 40.106,  
104.859


 51, 0.191, 290.437


 51, 7.242, 291.106

 49, 45.555,  
104.151


 52, 14.285,  
291.973


 49, 50.080,  
103.574


 52, 21.304,  
292.808

 49, 53.380,  
103.161

 53, 28.289,  
293.608

 49, 55.789,  
102.863

 53, 35.231,  
294.369

 49, 55.854,  
102.855

 54, 42.124,  
295.090

# Harmonies

# Complementary

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



50, 20.760, 107.431



38, 22.231, 293.630

# Rectangle

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



50, 20.760, 107.431



50, 20.760, 157.431



50, 20.760, 287.431



50, 20.760, 337.431

# Sweetspot

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



50, 20.761, 107.435



65, 7.875, 109.328



40, 16.112, 21.719



33, 5.441, 109.218



83, 0.010, 296.813



34, 0.005, 296.813



# Same Dimension

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



50, 20.761, 107.435



64, 31.098, 106.784



49, 22.281, 127.751



26, 3.997, 109.342



51, 57.133, 102.855



96, 96.175, 102.855





# Inverse Universe

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



38, 22.231, 293.630



45, 33.974, 294.724



39, 23.180, 310.443



23, 4.080, 291.073



12, 78.890, 306.287



32, 132.800, 306.287



# Previews

## White Background



This preview shows how the CIELCh color 50, 20.760, 107.431 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

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 50, 20.760, 107.431 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

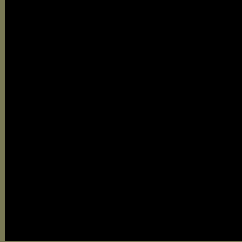
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

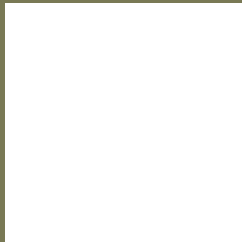
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 50, 20.760, 107.431**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 50, 20.760, 107.431.



This preview shows how white text looks on a background with the CIELCh color 50, 20.760, 107.431.

# 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


50, 20.760, 107.431

### Protanopia

50, 20.657, 96.240

### Deuteranopia

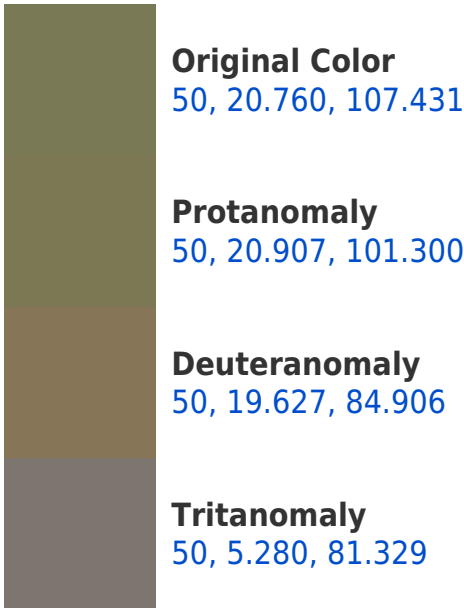
50, 20.089, 70.791



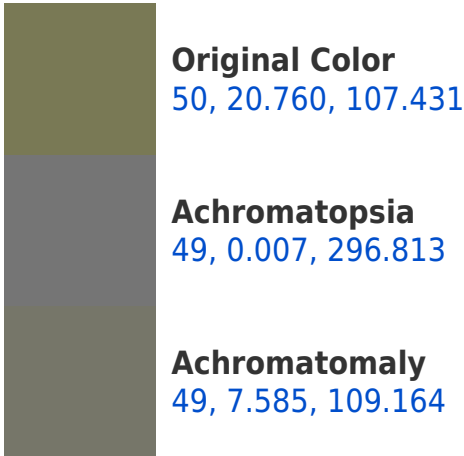
**Tritanopia**  
50, 6.639, 327.680



# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 50, 20.760, 107.431 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(121, 121, 85)` looks like.

```
.text, #text, p{  
    color:rgb(121, 121, 85)  
}
```

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(121, 121, 85) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(121, 121, 85) }
```

## Border

The CSS property to change the border of an element to CIELCh 50, 20.760, 107.431 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(121, 121, 85) }
```

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

```
.border{ border-color:rgb(121, 121, 85) }
```

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

Here you see how a box with a 4 pixel `rgb(121, 121, 85)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(121, 121, 85); -webkit-box-  
shadow:4px 4px 4px 4px rgb(121, 121, 85);  
box-shadow:4px 4px 4px 4px rgb(121, 121,  
85) }
```

# Background

The CSS property to change the background color of an element to CIELCh 50, 20.760, 107.431 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(121, 121, 85) }
```

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

```
.background{ background-color: rgb(121,  
121, 85) }
```

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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