

# Converting Colors

CIELCh(48, 26.611, 107.292)

Have a look what the booklet for  
CIELCh(48, 26.611, 107.292)  
contains.

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**Color**

**CIELCh(48, 27.044, 107.466)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	747546
RGB	116, 117, 70
RGB Percent	45%, 46%, 27%
CMY	0.5462, 0.5422, 0.7265
CMYK	0.01, 0.00, 0.40, 0.54
HSL	61°, 25%, 37%
HSV	61°, 40%, 46%
XYZ	14.5946, 16.7945, 8.2257
YIQ	111.3430, 14.4910, -14.8290

# Conversions

## Conversions Part 2

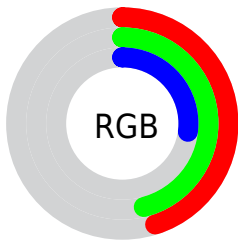
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	70, 117, 71
Decimal	7632198
CIE Lab	48.00, -8.12, 25.80
CIE LCh	48, 27.044, 107.466
Yxy	16.7945, 0.3684, 0.4239
Android (android.graphics.Color)	4285822278 (0xFF747546)
YUV	111.3430, -20.3821, 4.0842
Hunter-Lab	40.9810, -8.1474, 16.7860

# Details

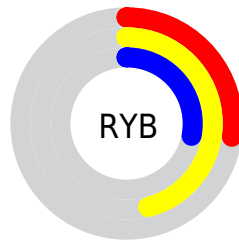
The CIELCh color  $48, 27.044, 107.466$  is a dark color, and the websafe version is hex  $666633$ . A complement of this color would be  $32, 29.829, 295.888$ , and the grayscale version is  $47, 0.006, 296.813$ .

A 20% lighter version of the original color is  $68, 27.118, 107.364$ , and  $28, 26.948, 107.094$  is the 20% darker color. If you saturate the color by 10%, you get  $48, 33.343, 106.639$ , and if you desaturate by 10%, it is  $48, 20.493, 108.339$ .

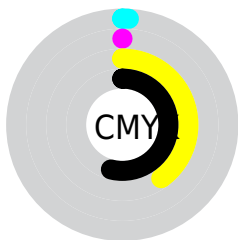
# Distribution



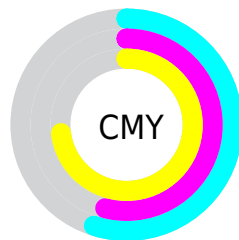
- Red (45%)
- Green (46%)
- Blue (27%)



- Red (27%)
- Yellow (46%)
- Blue (28%)



- Cyan (1%)
- Magenta (0%)
- Yellow (40%)
- Black (54%)



- Cyan (55%)
- Magenta (54%)
- Yellow (73%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 48, 27.044, 107.466 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 48, 27.044, 107.466 by changing the saturation by 10% instead.



 48, 27.044,  
107.466

 48, 27.044,  
107.466

 100, 27.044,  
107.466

 38, 27.044,  
107.466

 68, 27.044,  
107.466

 28, 27.044,  
107.466

 78, 27.044,  
107.466

 18, 27.044,  
107.466

 88, 27.044,  
107.466

 8, 27.044, 107.466

 98, 27.044,  
107.466

 0, 27.044, 107.466

 48, 27.044,

 48, 27.044,

107.466

107.466

■ 48, 33.343,  
106.639

■ 48, 20.493,  
108.339

■ 48, 39.235,  
105.876

■ 48, 13.788,  
109.227

■ 48, 44.506,  
105.215

■ 49, 6.997, 110.116

■ 47, 48.878,  
104.696

■ 49, 0.164, 110.771

■ 50, 6.682, 291.869

■ 47, 52.062,  
104.355

■ 50, 13.520,  
292.700

■ 47, 54.438,  
104.130

■ 50, 20.335,  
293.501

■ 51, 27.117,  
294.267

■ 51, 33.857,



# Harmonies

# Complementary

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



48, 27.044, 107.466



32, 29.829, 295.888

# Rectangle

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



48, 27.044, 107.466



48, 27.044, 157.466



48, 27.044, 287.466



48, 27.044, 337.466

# Sweetspot

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



48, 27.045, 107.469



63, 10.221, 109.933



35, 21.609, 24.197



32, 6.738, 109.850



82, 0.010, 296.813



33, 0.005, 296.813





# Same Dimension

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



48, 27.045, 107.469



62, 39.809, 106.719



46, 29.247, 127.864



25, 3.858, 110.223



49, 56.316, 104.137



95, 95.481, 104.207



# Inverse Universe

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



32, 29.829, 295.888



37, 45.205, 297.415



34, 30.830, 311.517



22, 3.938, 291.876



12, 77.598, 306.391



32, 131.688, 306.331



# Previews

## White Background



This preview shows how the CIELCh color 48, 27.044, 107.466 looks on a white 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

# Black Background



This preview shows how the CIELCh color 48, 27.044, 107.466 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

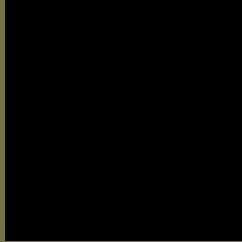
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 48, 27.044, 107.466**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 48, 27.044, 107.466.



This preview shows how white text looks on a background with the CIELCh color 48, 27.044, 107.466.

# 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

48, 27.044, 107.466

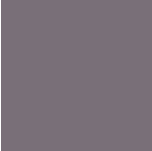
### Protanopia

48, 26.565, 95.545

### Deuteranopia

48, 25.541, 76.436





**Tritanopia**  
48, 6.689, 327.697

# Trichromacy



**Original Color**  
48, 27.044, 107.466

**Protanomaly**  
48, 26.765, 99.611

**Deuteranomaly**  
48, 25.216, 88.663

**Tritanomaly**  
48, 6.937, 87.786

# Monochromacy



**Original Color**  
48, 27.044, 107.466

**Achromatopsia**  
47, 0.006, 296.813

**Achromatomaly**  
47, 9.988, 108.801

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 48, 27.044, 107.466 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(116, 117, 70)` looks like.

```
.text, #text, p{  
    color:rgb(116, 117, 70)  
}
```

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(116, 117, 70) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(116, 117, 70) }
```

## Border

The CSS property to change the border of an element to CIELCh 48, 27.044, 107.466 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(116, 117, 70) }
```

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

```
.border{ border-color:rgb(116, 117, 70) }
```

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

Here you see how a box with a 4 pixel rgb(116, 117, 70) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(116, 117, 70); -webkit-box-  
shadow:4px 4px 4px 4px rgb(116, 117, 70);  
box-shadow:4px 4px 4px 4px rgb(116, 117,  
70) }
```

# Background

The CSS property to change the background color of an element to CIELCh 48, 27.044, 107.466 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(116, 117, 70) }
```

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

```
.background{ background-color: rgb(116,  
117, 70) }
```

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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