

Converting Colors

CIELCh(48, 13.497, 20.799)

Have a look what the booklet for
CIELCh(48, 13.497, 20.799) contains.

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Color

CIELCh(48, 13.670, 21.070)

Conversions

Conversions Part 1

Format	Color
Hex	8A6A6A
RGB	138, 106, 106
RGB Percent	54%, 42%, 42%
CMY	0.4583, 0.5838, 0.5838
CMYK	0.00, 0.23, 0.23, 0.46
HSL	0°, 13%, 48%
HSV	0°, 23%, 54%
XYZ	18.2810, 16.7945, 15.9502
YIQ	115.5680, 19.0720, 6.7840

Conversions

Conversions Part 2

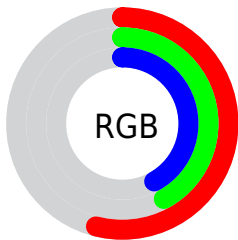
Format	Color
R _Y B	138, 106, 106
Decimal	9071210
CIE Lab	48.00, 12.76, 4.91
CIE LCh	48, 13.670, 21.070
Yxy	16.7945, 0.3583, 0.3291
Android (android.graphics.Color)	4287261290 (0xFF8A6A6A)
YUV	115.5680, -4.7170, 19.6729
Hunter-Lab	40.9810, 7.9091, 5.6105

Details

The CIELCh color **48, 13.670, 21.070** is a dark color, and the websafe version is hex **996666**. A complement of this color would be **55, 11.779, 198.286**, and the grayscale version is **49, 0.007, 296.813**.

A 20% lighter version of the original color is **68, 13.835, 20.656**, and **28, 13.335, 21.854** is the 20% darker color. If you saturate the color by 10%, you get **44, 20.295, 22.181**, and if you desaturate by 10%, it is **52, 7.480, 20.204**.

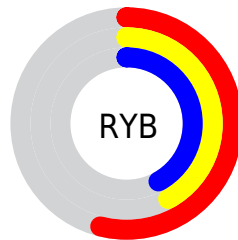
Distribution



Red (54%)

Green (42%)

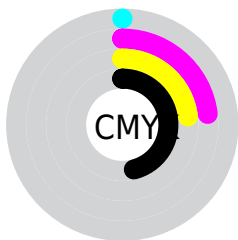
Blue (42%)



Red (54%)

Yellow (42%)

Blue (42%)

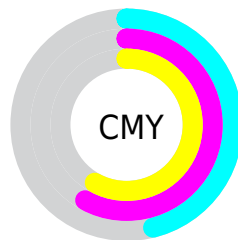


Cyan (0%)

Magenta (23%)

Yellow (23%)

Black (46%)



Cyan (46%)

Magenta (58%)

Yellow (58%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 48, 13.670, 21.070 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, 13.670, 21.070 by changing the saturation by 10% instead.

■ 48, 13.670, 21.070

■ 48, 13.670, 21.070

■ 100, 13.670,
21.070

■ 38, 13.670, 21.070

■ 68, 13.670, 21.070

■ 28, 13.670, 21.070

■ 78, 13.670, 21.070

■ 18, 13.670, 21.070

■ 88, 13.670, 21.070

■ 8, 13.670, 21.070

■ 98, 13.670, 21.070

■ 0, 13.670, 21.070

■ 48, 13.670, 21.070

■ 48, 13.670, 21.070

■ 44, 20.295, 22.181

■ 52, 7.480, 20.204

■ 40, 27.315, 23.608

■ 56, 1.734, 19.356

37, 34.631, 25.454

60, 3.593, 199.195

34, 42.078, 27.819

65, 8.533, 198.712

32, 49.424, 30.755

69, 13.125,
198.362

30, 56.339, 34.148

73, 17.409,
198.084

28, 62.110, 37.376

28, 65.296, 38.952

77, 21.422,
197.858

82, 25.196,
197.672

86, 28.762,
197.517

Harmonies

Complementary

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



48, 13.670, 21.070



55, 11.779, 198.286

Rectangle

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



48, 13.670, 21.070



48, 13.670, 71.070



48, 13.670, 201.070



48, 13.670, 251.070

Sweetspot

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



48, 13.669, 21.076



69, 4.790, 19.737



49, 22.499, 325.658



36, 3.106, 19.774



87, 0.010, 296.813



38, 0.005, 296.813

Same Dimension

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



48, 13.669, 21.076



59, 20.775, 21.641



52, 11.541, 72.636



27, 3.148, 19.892



27, 63.128, 38.660



0, 1.414, 19.414

Inverse Universe

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



55, 11.779, 198.286



69, 17.223, 198.040



51, 10.870, 258.715



29, 2.977, 199.018



50, 30.835, 196.402



1, 1.414, 199.431

Previews

White Background



This preview shows how the CIELCh color 48, 13.670, 21.070 looks on a white background.

Color Contrast Check

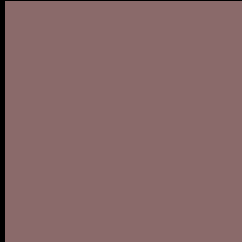
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

Black Background



This preview shows how the CIE LCh color 48, 13.670, 21.070 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

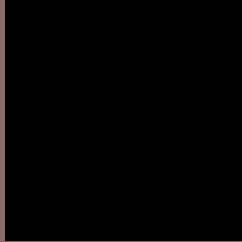
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 48, 13.670, 21.070

Background



This preview shows how black text looks on a background with the CIELCh color 48, 13.670, 21.070.

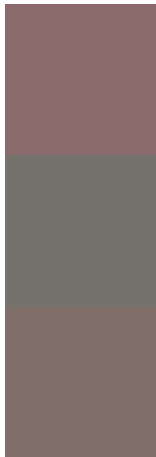


This preview shows how white text looks on a background with the CIELCh color 48, 13.670, 21.070.

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, 13.670, 21.070

Protanopia

48, 2.642, 81.944

Deuteranopia

48, 8.206, 41.058



Tritanopia
48, 14.916, 3.095

Trichromacy



Original Color
48, 13.670, 21.070

Protanomaly
48, 5.969, 31.323

Deuteranomaly
48, 10.110, 33.832

Tritanomaly
48, 14.686, 7.508

Monochromacy



Original Color
48, 13.670, 21.070

Achromatopsia
49, 0.007, 296.813

Achromatomaly
48, 4.963, 19.917

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 48, 13.670, 21.070 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(138, 106, 106)` looks like.

```
.text, #text, p{  
    color:rgb(138, 106, 106)  
}
```

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(138, 106, 106) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(138, 106, 106) }
```

Border

The CSS property to change the border of an element to CIELCh 48, 13.670, 21.070 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(138, 106, 106) }
```

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

```
.border{ border-color:rgb(138, 106, 106) }
```

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

Here you see how a box with a 4 pixel rgb(138, 106, 106) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(138, 106, 106); -webkit-box-  
shadow:4px 4px 4px 4px rgb(138, 106, 106);  
box-shadow:4px 4px 4px 4px rgb(138, 106,  
106) }
```

Background

The CSS property to change the background color of an element to CIELCh 48, 13.670, 21.070 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(138, 106, 106) }
```

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

```
.background{ background-color: rgb(138,  
106, 106) }
```

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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