

Converting Colors

CIELCh(48, 4.895, 199.160)

Have a look what the booklet for
CIELCh(48, 4.895, 199.160) contains.

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Color

CIELCh(48, 4.731, 198.949)

Conversions

Conversions Part 1

Format	Color
Hex	687474
RGB	104, 116, 116
RGB Percent	41%, 45%, 45%
CMY	0.5909, 0.5438, 0.5438
CMYK	0.10, 0.00, 0.00, 0.54
HSL	180°, 5%, 43%
HSV	180°, 10%, 46%
XYZ	15.1984, 16.7945, 19.0608
YIQ	112.4120, -7.1520, -2.5440

Conversions

Conversions Part 2

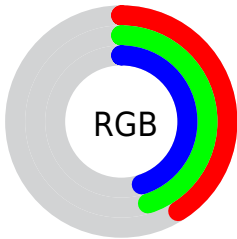
Format	Color
R_{YB}	104, 110, 116
Decimal	6845556
CIE _{Lab}	48.00, -4.47, -1.54
CIE _{LCh}	48, 4.731, 198.949
Yxy	16.7945, 0.2977, 0.3290
Android (android.graphics.Color)	4285035636 (0xFF687474)
YUV	112.4120, 1.7689, -7.3773
Hunter-Lab	40.9810, -5.5176, 1.1102

Details

The CIELCh color **48, 4.731, 198.949** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **45, 5.034, 19.947**, and the grayscale version is **48, 0.006, 296.813**.

A 20% lighter version of the original color is **68, 4.819, 199.089**, and **28, 4.698, 198.694** is the 20% darker color. If you saturate the color by 10%, you get **47, 9.065, 198.416**, and if you desaturate by 10%, it is **49, 0.150, 201.846**.

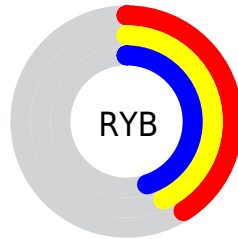
Distribution



Red (41%)

Green (45%)

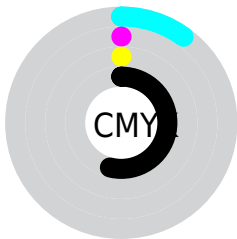
Blue (45%)



Red (41%)

Yellow (43%)

Blue (45%)

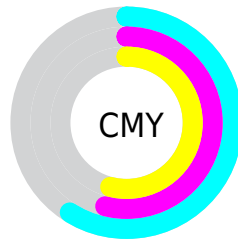


Cyan (10%)

Magenta (0%)

Yellow (0%)

Black (54%)



Cyan (59%)

Magenta (54%)

Yellow (54%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 48, 4.731, 198.949 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, 4.731, 198.949 by changing the saturation by 10% instead.

■ 48, 4.731, 198.949

■ 48, 4.731, 198.949

■ 100, 4.731,
198.949

■ 38, 4.731, 198.949

■ 68, 4.731, 198.949

■ 28, 4.731, 198.949

■ 78, 4.731, 198.949

■ 18, 4.731, 198.949

■ 88, 4.731, 198.949

■ 8, 4.731, 198.949

■ 98, 4.731, 198.949

■ 0, 4.731, 198.949

■ 48, 4.731, 198.949

■ 48, 4.731, 198.949

■ 47, 9.065, 198.416

■ 49, 0.150, 201.846

■ 46, 13.084,
197.962

■ 50, 4.618, 19.841

46, 16.720,
197.563

51, 9.518, 20.449

45, 19.907,
197.220

52, 14.503, 21.046

45, 22.590,
196.935

54, 19.537, 21.645

44, 24.730,
196.711

56, 29.636, 22.845

44, 26.314,
196.546

58, 34.660, 23.439

44, 27.356,
196.437

59, 39.647, 24.026

44, 28.071,
196.363

Harmonies

Complementary

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



48, 4.731, 198.949



45, 5.034, 19.947

Rectangle

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



48, 4.731, 198.949



48, 4.731, 248.949



48, 4.731, 18.949



48, 4.731, 68.949

Sweetspot

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



48, 4.732, 198.936



62, 1.725, 199.488



48, 8.611, 143.452



32, 1.316, 199.403



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, 4.732, 198.936



61, 6.758, 198.825



46, 4.181, 254.914



24, 2.606, 199.011



46, 29.114, 196.362



89, 49.359, 196.361

Inverse Universe

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



45, 5.034, 19.947



57, 7.279, 20.098



47, 4.290, 72.360



23, 2.750, 19.851



24, 59.038, 37.982



52, 102.980, 39.996

Previews

White Background



This preview shows how the CIELCh color 48, 4.731, 198.949 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, 4.731, 198.949 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

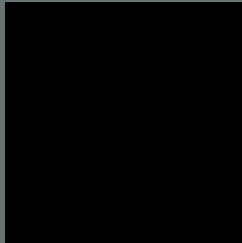
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 48, 4.731, 198.949

Background



This preview shows how black text looks on a background with the CIELCh color 48, 4.731, 198.949.



This preview shows how white text looks on a background with the CIELCh color 48, 4.731, 198.949.

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

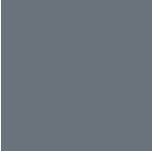
48, 4.731, 198.949

Protanopia

48, 1.012, 343.518

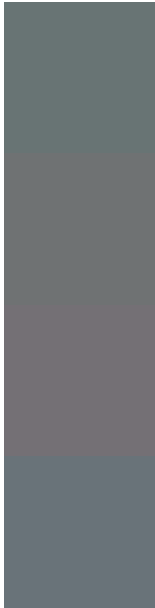
Deuteranopia

48, 7.096, 338.640



Tritanopia
48, 6.264, 257.338

Trichromacy



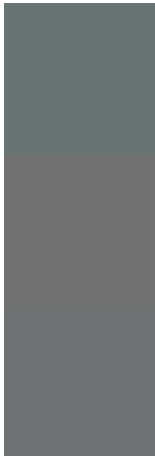
Original Color
48, 4.731, 198.949

Protanomaly
48, 1.333, 225.835

Deuteranomaly
48, 3.383, 318.948

Tritanomaly
48, 5.190, 242.263

Monochromacy



Original Color
48, 4.731, 198.949

Achromatopsia
48, 0.006, 296.813

Achromatomaly
48, 1.606, 199.448

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 48, 4.731, 198.949 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(104, 116, 116)` looks like.

```
.text, #text, p{  
    color:rgb(104, 116, 116)  
}
```

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(104, 116, 116) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(104, 116, 116) }
```

Border

The CSS property to change the border of an element to CIELCh 48, 4.731, 198.949 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(104, 116, 116) }
```

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

```
.border{ border-color:rgb(104, 116, 116) }
```

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

Here you see how a box with a 4 pixel rgb(104, 116, 116) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(104, 116, 116); -webkit-box-  
shadow:4px 4px 4px 4px rgb(104, 116, 116);  
box-shadow:4px 4px 4px 4px rgb(104, 116,  
116) }
```

Background

The CSS property to change the background color of an element to CIELCh 48, 4.731, 198.949 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(104, 116, 116) }
```

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

```
.background{ background-color: rgb(104,  
116, 116) }
```

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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