

Converting Colors

CIELCh(50, 9.577, 48.405)

Have a look what the booklet for
CIELCh(50, 9.577, 48.405) contains.

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Color

CIELCh(50, 9.738, 48.640)

Conversions

Conversions Part 1

Format	Color
Hex	87736B
RGB	135, 115, 107
RGB Percent	53%, 45%, 42%
CMY	0.4713, 0.5497, 0.5810
CMYK	0.00, 0.15, 0.21, 0.47
HSL	17°, 12%, 47%
HSV	17°, 21%, 53%
XYZ	18.7214, 18.4187, 16.4333
YIQ	120.0680, 14.4880, 1.7520

Conversions

Conversions Part 2

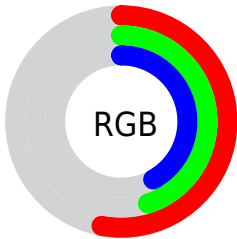
Format	Color
R_{YB}	135, 118, 107
Decimal	8876907
CIE _{Lab}	50.00, 6.43, 7.31
CIE _{LCh}	50, 9.738, 48.640
Yxy	18.4187, 0.3495, 0.3438
Android (android.graphics.Color)	4287066987 (0xFF87736B)
YUV	120.0680, -6.4425, 13.0954
Hunter-Lab	42.9170, 2.7612, 7.3392

Details

The CIELCh color $[50, 9.738, 48.640]$ is a dark color, and the websafe version is hex 666666 . A complement of this color would be $[52, 8.650, 231.441]$, and the grayscale version is $[50, 0.007, 296.813]$.

A 20% lighter version of the original color is $[70, 9.976, 49.354]$, and $[30, 9.711, 47.706]$ is the 20% darker color. If you saturate the color by 10%, you get $[47, 14.988, 48.236]$, and if you desaturate by 10%, it is $[53, 4.862, 49.118]$.

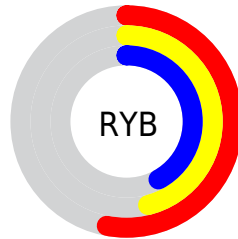
Distribution



Red (53%)

Green (45%)

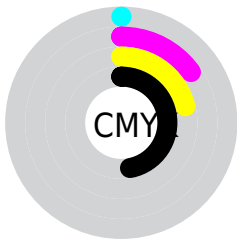
Blue (42%)



Red (53%)

Yellow (46%)

Blue (42%)

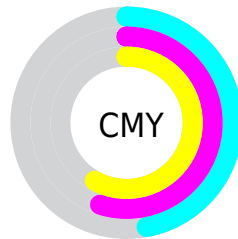


Cyan (0%)

Magenta (15%)

Yellow (21%)

Black (47%)



Cyan (47%)

Magenta (55%)

Yellow (58%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 50, 9.738, 48.640 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, 9.738, 48.640 by changing the saturation by 10% instead.

 50, 9.738, 48.640	 50, 9.738, 48.640
 100, 9.738, 48.640	 40, 9.738, 48.640
 70, 9.738, 48.640	 30, 9.738, 48.640
 80, 9.738, 48.640	 20, 9.738, 48.640
 90, 9.738, 48.640	 10, 9.738, 48.640
	 0, 9.738, 48.640

 50, 9.738, 48.640	 50, 9.738, 48.640
 47, 14.988, 48.236	 53, 4.862, 49.118
 44, 20.637, 47.914	 56, 0.329, 48.598
 42, 26.692, 47.708	 59, 3.895, 230.464

■ 39, 33.129, 47.628

■ 62, 7.845, 231.045

■ 36, 39.858, 47.655

■ 65, 11.552,
231.674

■ 34, 46.663, 47.698

■ 68, 15.047,
232.316

■ 32, 53.061, 47.511

■ 31, 58.468, 47.357

■ 72, 18.354,
232.958

■ 75, 21.496,
233.594

■ 78, 24.494,
234.219

Harmonies

Complementary

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



50, 9.738, 48.640



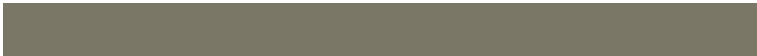
52, 8.650, 231.441

Rectangle

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



50, 9.738, 48.640



50, 9.738, 98.640



50, 9.738, 228.640



50, 9.738, 278.640

Sweetspot

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



50, 9.738, 48.651



70, 3.311, 49.311



48, 16.242, 334.991



36, 2.218, 49.293



87, 0.010, 296.813



38, 0.005, 296.813

Same Dimension

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



50, 9.738, 48.651



63, 14.841, 48.442



54, 12.828, 97.036



26, 2.498, 49.193



30, 56.741, 47.339



0, 0.581, 49.797

Inverse Universe

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



52, 8.650, 231.441



65, 12.783, 231.932



48, 13.078, 282.033



27, 2.380, 230.501



37, 28.738, 251.819



0, 0.581, 229.816

Previews

White Background



This preview shows how the CIELCh color 50, 9.738, 48.640 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 CIE LCh color 50, 9.738, 48.640 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

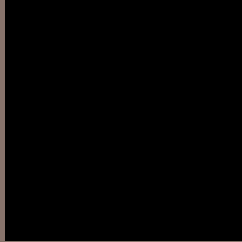
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

CIELCh 50, 9.738, 48.640

Background



This preview shows how black text looks on a background with the CIELCh color 50, 9.738, 48.640.

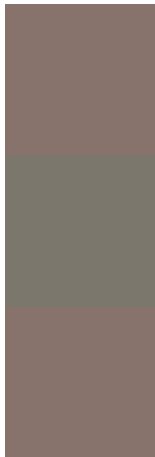


This preview shows how white text looks on a background with the CIELCh color 50, 9.738, 48.640.

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, 9.738, 48.640

Protanopia

50, 6.176, 89.657

Deuteranopia

50, 9.738, 48.640



Tritanopia
50, 10.853, 355.337

Trichromacy



Original Color
50, 9.738, 48.640

Protanomaly
50, 6.999, 68.064

Deuteranomaly
50, 9.738, 48.640

Tritanomaly
50, 9.190, 13.212

Monochromacy



Original Color
50, 9.738, 48.640

Achromatopsia
50, 0.007, 296.813

Achromatomaly
50, 3.353, 50.951

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 50, 9.738, 48.640 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(135, 115, 107)` looks like.

```
.text, #text, p{  
    color:rgb(135, 115, 107)  
}
```

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(135, 115, 107) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 115, 107) }
```

Border

The CSS property to change the border of an element to CIELCh 50, 9.738, 48.640 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(135, 115, 107) }
```

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

```
.border{ border-color:rgb(135, 115, 107) }
```

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

Here you see how a box with a 4 pixel `rgb(135, 115, 107)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 115, 107); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 115, 107);  
box-shadow:4px 4px 4px 4px rgb(135, 115,  
107) }
```

Background

The CSS property to change the background color of an element to CIELCh 50, 9.738, 48.640 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 115, 107) }
```

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

```
.background{ background-color: rgb(135,  
115, 107) }
```

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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