

Converting Colors

CIELCh(50, 9.202, 41.716)

Have a look what the booklet for
CIELCh(50, 9.202, 41.716) contains.

CIELCh(50, 9.177, 42.509)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	20
<i>Color Blindness Simulation</i>	23
<i>CSS Examples</i>	26

Color

CIELCh(50, 9.177, 42.509)

Conversions

Conversions Part 1

Format	Color
Hex	87736D
RGB	135, 115, 109
RGB Percent	53%, 45%, 43%
CMY	0.4718, 0.5502, 0.5737
CMYK	0.00, 0.15, 0.19, 0.47
HSL	14°, 11%, 48%
HSV	14°, 19%, 53%
XYZ	18.7852, 18.4187, 16.9516
YIQ	120.2960, 13.8460, 2.3740

Conversions

Conversions Part 2

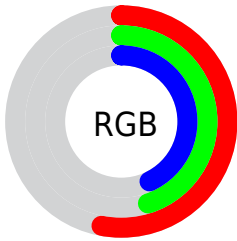
Format	Color
R_{YB}	135, 117, 109
Decimal	8876909
CIE Lab	50.00, 6.77, 6.20
CIE LCh	50, 9.177, 42.509
Yxy	18.4187, 0.3469, 0.3401
Android (android.graphics.Color)	4287066989 (0xFF87736D)
YUV	120.2960, -5.5689, 12.8954
Hunter-Lab	42.9170, 3.0267, 6.6231

Details

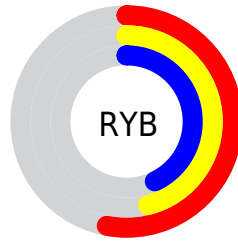
The CIELCh color $50, 9.177, 42.509$ is a dark color, and the websafe version is hex 666666 . A complement of this color would be $53, 8.151, 224.113$, and the grayscale version is $50, 0.007, 296.813$.

A 20% lighter version of the original color is $70, 9.446, 43.771$, and $30, 9.098, 40.991$ is the 20% darker color. If you saturate the color by 10%, you get $47, 14.499, 42.387$, and if you desaturate by 10%, it is $53, 4.250, 42.721$.

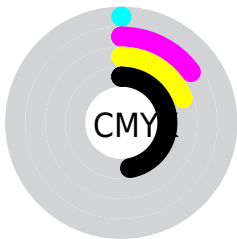
Distribution



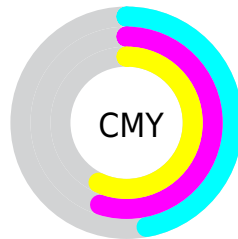
- Red (53%)
- Green (45%)
- Blue (43%)



- Red (53%)
- Yellow (46%)
- Blue (43%)



- Cyan (0%)
- Magenta (15%)
- Yellow (19%)
- Black (47%)



- Cyan (47%)
- Magenta (55%)
- Yellow (57%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 50, 9.177, 42.509 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, 9.177, 42.509 by changing the saturation by 10% instead.

 50, 9.177, 42.509	 50, 9.177, 42.509
 100, 9.177, 42.509	 40, 9.177, 42.509
 70, 9.177, 42.509	 30, 9.177, 42.509
 80, 9.177, 42.509	 20, 9.177, 42.509
 90, 9.177, 42.509	 10, 9.177, 42.509
	 0, 9.177, 42.509

 50, 9.177, 42.509	 50, 9.177, 42.509
 47, 14.499, 42.387	 53, 4.250, 42.721
 44, 20.241, 42.376	 56, 0.314, 224.414
 41, 26.410, 42.520	 60, 4.551, 223.616

■ 38, 32.983, 42.843

■ 63, 8.497, 224.000

■ 36, 39.876, 43.343

■ 66, 12.186,
224.437

■ 33, 46.893, 43.953

■ 70, 15.648,
224.897

■ 31, 53.595, 44.451

■ 30, 59.471, 44.760

■ 73, 18.911,
225.368

■ 30, 59.868, 44.802

■ 76, 22.000,
225.842

■ 80, 24.935,
226.314

Harmonies

Complementary

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



50, 9.177, 42.509



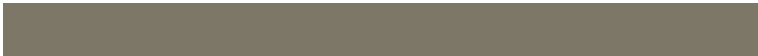
53, 8.151, 224.113

Rectangle

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



50, 9.177, 42.509



50, 9.177, 92.509



50, 9.177, 222.509



50, 9.177, 272.509

Sweetspot

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



50, 9.176, 42.520



69, 3.372, 42.767



49, 15.795, 332.298



36, 2.259, 42.762



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, 9.176, 42.520



63, 13.838, 42.452



53, 11.141, 92.625



26, 2.545, 42.724



29, 58.123, 44.734



0, 0.590, 43.109

Inverse Universe

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



53, 8.151, 224.113



66, 11.942, 224.400



49, 11.213, 277.472



27, 2.414, 223.591



39, 27.083, 240.808



0, 0.590, 223.129

Previews

White Background



This preview shows how the CIELCh color 50, 9.177, 42.509 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, 9.177, 42.509 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

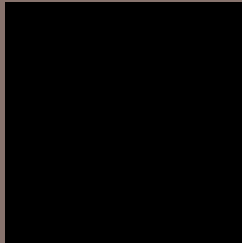
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

CIELCh 50, 9.177, 42.509

Background



This preview shows how black text looks on a background with the CIELCh color 50, 9.177, 42.509.

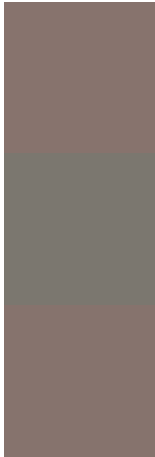


This preview shows how white text looks on a background with the CIELCh color 50, 9.177, 42.509.

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, 9.177, 42.509

Protanopia

50, 4.935, 89.935

Deuteranopia

50, 8.778, 43.546



Tritanopia
50, 10.731, 351.479

Trichromacy



Original Color
50, 9.177, 42.509

Protanomaly
50, 5.837, 63.914

Deuteranomaly
50, 8.778, 43.546

Tritanomaly
50, 9.254, 9.638

Monochromacy



Original Color
50, 9.177, 42.509

Achromatopsia
50, 0.007, 296.813

Achromatomaly
50, 3.084, 41.754

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 50, 9.177, 42.509 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, 109)` looks like.

```
.text, #text, p{  
    color:rgb(135, 115, 109)  
}
```

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, 109) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 115, 109) }
```

Border

The CSS property to change the border of an element to CIELCh 50, 9.177, 42.509 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, 109) }
```

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

```
.border{ border-color:rgb(135, 115, 109) }
```

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, 109)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(135, 115, 109); -webkit-box-shadow:4px 4px 4px 4px rgb(135, 115, 109); box-shadow:4px 4px 4px 4px rgb(135, 115, 109) }
```

Background

The CSS property to change the background color of an element to CIELCh 50, 9.177, 42.509 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, 109) }
```

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

```
.background{ background-color: rgb(135,  
115, 109) }
```

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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