

Converting Colors

CIELCh(50, 0.957, 199.316)

Have a look what the booklet for
CIELCh(50, 0.957, 199.316) contains.

CIELCh(50, 0.800, 199.788)	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, 0.800, 199.788)

Conversions

Conversions Part 1	
Format	Color
Hex	757777
RGB	117, 119, 119
RGB Percent	46%, 47%, 47%
CMY	0.5399, 0.5320, 0.5320
CMYK	0.02, 0.00, 0.00, 0.53
HSL	180°, 1%, 46%
HSV	180°, 2%, 47%
XYZ	17.3678, 18.4187, 20.1983
YIQ	118.4020, -1.1920, -0.4240

Conversions

Conversions Part 2

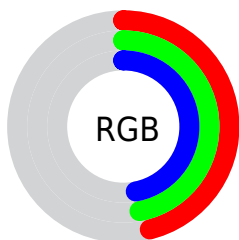
Format	Color
RYB	117, 118, 119
Decimal	7698295
CIELab	50.00, -0.75, -0.27
CIELCh	50, 0.800, 199.788
Yxy	18.4187, 0.3102, 0.3290
Android (android.graphics.Color)	4285888375 (0xFF757777)
YUV	118.4020, 0.2948, -1.2296
Hunter-Lab	42.9170, -2.8687, 2.1378

Details

The CIELCh color $50, 0.800, 199.788$ is a dark color, and the websafe version is hex 666666 . A complement of this color would be $50, 0.810, 18.950$, and the grayscale version is $50, 0.007, 296.813$.

A 20% lighter version of the original color is $70, 0.749, 199.997$, and $30, 0.873, 199.568$ is the 20% darker color. If you saturate the color by 10%, you get $49, 5.449, 198.781$, and if you desaturate by 10%, it is $51, 4.046, 19.681$.

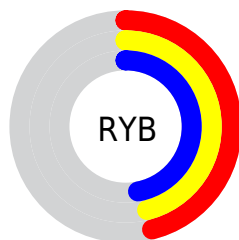
Distribution



Red (46%)

Green (47%)

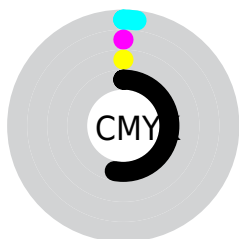
Blue (47%)



Red (46%)

Yellow (46%)

Blue (47%)

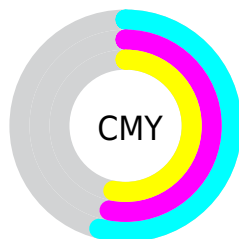


Cyan (2%)

Magenta (0%)

Yellow (0%)

Black (53%)



Cyan (54%)












Magenta (53%)








Yellow (53%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 50, 0.800, 199.788 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, 0.800, 199.788 by changing the saturation by 10% instead.

 50, 0.800, 199.788	 50, 0.800, 199.788
 100, 0.800, 199.788	 40, 0.800, 199.788
 70, 0.800, 199.788	 30, 0.800, 199.788
 80, 0.800, 199.788	 20, 0.800, 199.788
 90, 0.800, 199.788	 10, 0.800, 199.788
	 0, 0.800, 199.788

 50, 0.800, 199.788	 50, 0.800, 199.788
 49, 5.449, 198.781	 51, 4.046, 19.681
 48, 9.835, 198.269	 52, 9.035, 20.301
 47, 13.889,	 53, 14.117, 20.900

197.818  55, 19.252, 21.502


 47, 17.541,
197.422  56, 24.409, 22.105


 46, 20.724,
197.082  57, 29.563, 22.707


 46, 23.384,
196.800  59, 34.695, 23.305

 46, 25.485,
196.577  61, 39.790, 23.895

 46, 27.016,
196.412  62, 44.840, 24.475

 45, 27.998,
196.302

 45, 27.998,
196.302

 45, 27.998,
196.302

Harmonies

Complementary

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



50, 0.800, 199.788



50, 0.810, 18.950

Rectangle

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



50, 0.800, 199.788



50, 0.800, 249.788



50, 0.800, 19.788



50, 0.800, 69.788

Sweetspot

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



50, 0.801, 199.700



64, 0.593, 200.036



50, 1.417, 144.035



34, 0.340, 200.102



83, 0.010, 296.813



34, 0.005, 296.813

Same Dimension

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



50, 0.801, 199.700



64, 1.184, 199.596



50, 0.702, 254.153



25, 0.529, 199.661



46, 29.131, 196.231



89, 49.391, 196.223

Inverse Universe

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



50, 0.810, 18.950



63, 1.200, 19.055



50, 0.695, 73.028



24, 0.536, 18.989



24, 59.012, 37.947



52, 102.944, 39.970

Previews

White Background



This preview shows how the CIELCh color 50, 0.800, 199.788 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 50, 0.800, 199.788 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

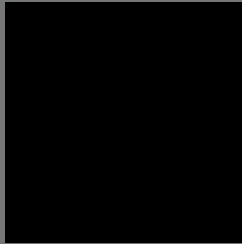
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

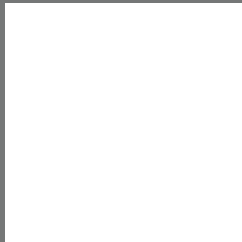
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 50, 0.800, 199.788

Background



This preview shows how black text looks on a background with the CIELCh color 50, 0.800, 199.788.



This preview shows how white text looks on a background with the CIELCh color 50, 0.800, 199.788.

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, 0.800, 199.788

Protanopia

50, 1.352, 353.669

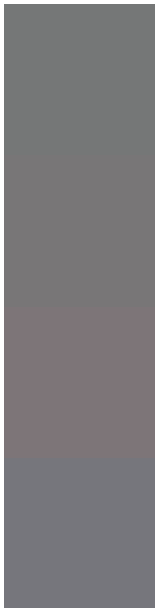
Deuteranopia

50, 6.777, 354.699



Tritanopia
50, 5.293, 295.106

Trichromacy



Original Color
50, 0.800, 199.788

Protanomaly
50, 1.005, 343.503

Deuteranomaly
50, 3.694, 351.447

Tritanomaly
50, 3.517, 290.649

Monochromacy



Original Color
50, 0.800, 199.788

Achromatopsia
50, 0.007, 296.813

Achromatomaly
50, 0.400, 200.304

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 50, 0.800, 199.788 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(117, 119, 119)` looks like.

```
.text, #text, p{  
    color:rgb(117, 119, 119)  
}
```

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(117, 119, 119) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(117, 119, 119) }
```

Border

The CSS property to change the border of an element to CIELCh 50, 0.800, 199.788 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(117, 119, 119) }
```

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

```
.border{ border-color:rgb(117, 119, 119) }
```

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

Here you see how a box with a 4 pixel `rgb(117, 119, 119)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(117, 119, 119); -webkit-box-  
shadow:4px 4px 4px 4px rgb(117, 119, 119);  
box-shadow:4px 4px 4px 4px rgb(117, 119,  
119) }
```

Background

The CSS property to change the background color of an element to CIELCh 50, 0.800, 199.788 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(117, 119, 119) }
```

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

```
.background{ background-color: rgb(117,  
119, 119) }
```

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](#).

Hey! You found this booklet
interesting? Support Converting
Colors with the new Membership
Option!

The pro membership hides all ads, plus gives you
double the colors in the color bucket, and more
awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor