

Converting Colors

CIELCh(50, 7.549, 198.684)

Have a look what the booklet for
CIELCh(50, 7.549, 198.684) contains.

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Color

CIELCh(50, 7.681, 198.626)

Conversions

Conversions Part 1

Format	Color
Hex	677B7B
RGB	103, 123, 123
RGB Percent	40%, 48%, 48%
CMY	0.5968, 0.5184, 0.5184
CMYK	0.16, 0.00, 0.00, 0.52
HSL	180°, 9%, 44%
HSV	180°, 16%, 48%
XYZ	16.1967, 18.4187, 21.3800
YIQ	117.0200, -11.9200, -4.2400

Conversions

Conversions Part 2

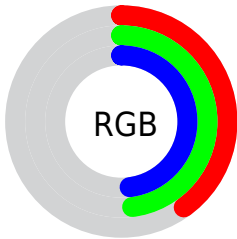
Format	Color
RYB	103, 113, 123
Decimal	6781819
CIELab	50.00, -7.28, -2.45
CIElCh	50, 7.681, 198.626
Yxy	18.4187, 0.2893, 0.3289
Android (android.graphics.Color)	4284971899 (0xFF677B7B)
YUV	117.0200, 2.9481, -12.2955
Hunter-Lab	42.9170, -7.7393, 0.5053

Details

The CIELCh color $50, 7.681, 198.626$ is a dark color, and the websafe version is hex 666666 . A complement of this color would be $45, 8.493, 20.426$, and the grayscale version is $49, 0.007, 296.813$.

A 20% lighter version of the original color is $70, 7.642, 198.831$, and $30, 7.407, 198.307$ is the 20% darker color. If you saturate the color by 10%, you get $49, 12.021, 198.140$, and if you desaturate by 10%, it is $51, 3.039, 199.195$.

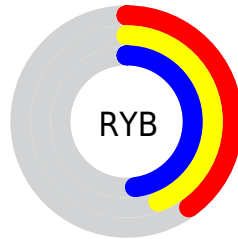
Distribution



Red (40%)

Green (48%)

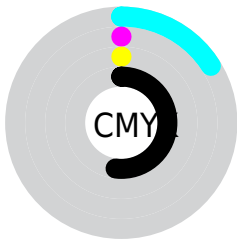
Blue (48%)



Red (40%)

Yellow (44%)

Blue (48%)

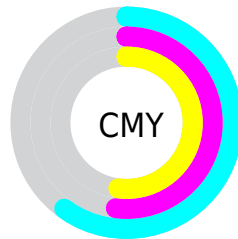


Cyan (16%)

Magenta (0%)

Yellow (0%)

Black (52%)



Cyan (60%)

Magenta (52%)

Yellow (52%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 50, 7.681, 198.626 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, 7.681, 198.626 by changing the saturation by 10% instead.

■ 50, 7.681, 198.626

■ 50, 7.681, 198.626

■ 100, 7.681,
198.626

■ 40, 7.681, 198.626

■ 70, 7.681, 198.626

■ 30, 7.681, 198.626

■ 80, 7.681, 198.626

■ 20, 7.681, 198.626

■ 90, 7.681, 198.626

■ 10, 7.681, 198.626

■ 0, 7.681, 198.626

■ 50, 7.681, 198.626

■ 50, 7.681, 198.626

■ 49, 12.021,
198.140

■ 51, 3.039, 199.195

■ 48, 15.986,
197.718

■ 52, 1.838, 19.391

■ 53, 6.886, 20.103

48, 19.504,
197.351

54, 12.052, 20.705

47, 22.512,
197.043

56, 17.291, 21.305

47, 24.963,
196.795

57, 22.566, 21.909

47, 26.830,
196.609

60, 33.118, 23.113

47, 28.117,
196.481

61, 38.355, 23.708

46, 28.915,
196.401

46, 29.184,
196.375

Harmonies

Complementary

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



50, 7.681, 198.626



45, 8.493, 20.426

Rectangle

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



50, 7.681, 198.626



50, 7.681, 248.626



50, 7.681, 18.626



50, 7.681, 68.626

Sweetspot

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



50, 7.682, 198.618



65, 3.021, 199.283



49, 14.247, 143.068



34, 2.075, 199.237



84, 0.010, 296.813



35, 0.005, 296.813

Same Dimension

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



50, 7.682, 198.618



64, 11.611, 198.409



47, 6.869, 255.737



25, 2.700, 199.014



47, 29.547, 196.375



90, 49.738, 196.374

Inverse Universe

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



45, 8.493, 20.426



57, 13.204, 20.788



48, 7.178, 71.686



24, 2.851, 19.863



25, 60.073, 38.170



53, 103.779, 39.998

Previews

White Background



This preview shows how the CIELCh color 50, 7.681, 198.626 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, 7.681, 198.626 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

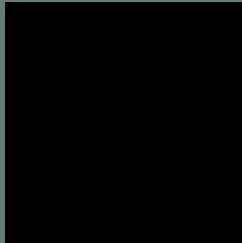
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

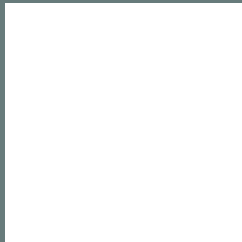
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 50, 7.681, 198.626

Background



This preview shows how black text looks on a background with the CIELCh color 50, 7.681, 198.626.



This preview shows how white text looks on a background with the CIELCh color 50, 7.681, 198.626.

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

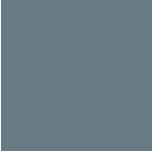
50, 7.681, 198.626

Protanopia

50, 1.432, 324.405

Deuteranopia

50, 7.439, 335.237



Tritanopia
50, 8.420, 237.730

Trichromacy



Original Color
50, 7.681, 198.626

Protanomaly
50, 2.434, 213.229

Deuteranomaly
50, 3.545, 297.044

Tritanomaly
50, 7.568, 226.548

Monochromacy



Original Color
50, 7.681, 198.626

Achromatopsia
49, 0.007, 296.813

Achromatomaly
49, 2.776, 199.232

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 50, 7.681, 198.626 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(103, 123, 123)` looks like.

```
.text, #text, p{  
    color:rgb(103, 123, 123)  
}
```

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(103, 123, 123) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 123, 123) }
```

Border

The CSS property to change the border of an element to CIELCh 50, 7.681, 198.626 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(103, 123, 123) }
```

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

```
.border{ border-color:rgb(103, 123, 123) }
```

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

Here you see how a box with a 4 pixel `rgb(103, 123, 123)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 123, 123); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 123, 123);  
box-shadow:4px 4px 4px 4px rgb(103, 123,  
123) }
```

Background

The CSS property to change the background color of an element to CIELCh 50, 7.681, 198.626 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 123, 123) }
```

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

```
.background{ background-color: rgb(103,  
123, 123) }
```

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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