

Converting Colors

CIELCh(50, 90.188, 99.149)

Have a look what the booklet for
CIELCh(50, 90.188, 99.149) contains.

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Color

CIELCh(50, 56.820, 102.852)

Conversions

Conversions Part 1

Format	Color
Hex	7B7B00
RGB	123, 123, 0
RGB Percent	48%, 48%, 0%
CMY	0.5173, 0.5170, 1.0000
CMYK	0.00, 0.00, 1.00, 0.52
HSL	60°, 100%, 24%
HSV	60°, 100%, 48%
XYZ	15.2752, 18.4187, 2.7104
YIQ	108.9780, 39.4830, -38.2530

Conversions

Conversions Part 2

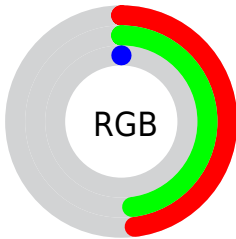
Format	Color
R_{YB}	0, 123, 0
Decimal	8092416
CIE _{Lab}	50.00, -12.64, 55.40
CIE _{LCh}	50, 56.820, 102.852
Yxy	18.4187, 0.4196, 0.5059
Android (android.graphics.Color)	4286282496 (0xFF7B7B00)
YUV	108.9780, -53.7262, 12.2973
Hunter-Lab	42.9170, -11.5720, 26.2975

Details

The CIELCh color **50, 56.820, 102.852** is a dark color, and the websafe version is hex **666600**. A complement of this color would be **12, 78.072, 306.290**, and the grayscale version is **46, 0.006, 296.813**.

A 20% lighter version of the original color is **70, 56.337, 102.673**, and **30, 40.119, 106.574** is the 20% darker color. If you saturate the color by 10%, you get **50, 56.543, 102.888**, and if you desaturate by 10%, it is **50, 54.147, 103.178**.

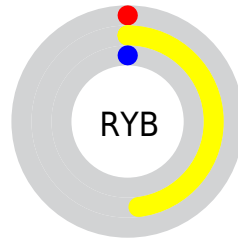
Distribution



Red (48%)

Green (48%)

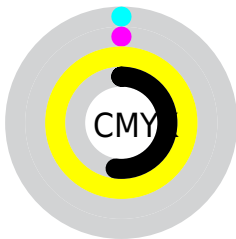
Blue (0%)



Red (0%)

Yellow (48%)

Blue (0%)

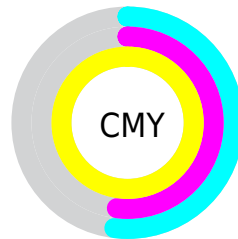


Cyan (0%)

Magenta (0%)

Yellow (100%)

Black (52%)



Cyan (52%)


Magenta (52%)


Yellow (100%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 50, 56.820, 102.852 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, 56.820, 102.852 by changing the saturation by 10% instead.


 50, 56.820,
102.852


 50, 56.820,
102.852


 100, 56.820,
102.852


 40, 56.820,
102.852


 70, 56.820,
102.852

 30, 56.820,
102.852


 80, 56.820,
102.852


 20, 56.820,
102.852

 90, 56.820,
102.852

 10, 56.820,
102.852

 0, 56.820, 102.852

 50, 56.820,
102.852

 50, 56.820,
102.852

■ 50, 56.543,
102.888

■ 50, 54.147,
103.178

■ 50, 50.858,
103.583

■ 50, 46.312,
104.154

■ 50, 40.815,
104.857

■ 50, 34.662,
105.658

■ 51, 28.082,
106.524

■ 51, 21.235,
107.430

■ 51, 14.228,
108.354

■ 51, 7.132, 109.278

Harmonies

Complementary

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



50, 56.820, 102.852



12, 78.072, 306.290

Rectangle

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



50, 56.820, 102.852



50, 56.820, 152.852



50, 56.820, 282.852



50, 56.820, 332.852

Sweetspot

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



50, 56.543, 102.888



65, 26.379, 107.363



24, 59.350, 38.045



34, 18.092, 107.045



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, 56.543, 102.888



64, 68.600, 102.889



46, 63.298, 127.469



26, 3.997, 109.364



51, 57.133, 102.888



96, 96.175, 102.890

Inverse Universe

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



12, 78.072, 306.290



18, 94.720, 306.289



18, 72.539, 312.292



23, 4.080, 291.094



12, 78.886, 306.290



32, 132.798, 306.288

Previews

White Background



This preview shows how the CIELCh color 50, 56.820, 102.852 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, 56.820, 102.852 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, 56.820, 102.852

Background



This preview shows how black text looks on a background with the CIELCh color 50, 56.820, 102.852.



This preview shows how white text looks on a background with the CIELCh color 50, 56.820, 102.852.

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, 56.491, 102.852

Protanopia

50, 55.683, 95.312

Deuteranopia

50, 52.437, 83.204



Tritanopia
50, 8.666, 343.096

Trichromacy



Original Color
50, 56.491, 102.852

Protanomaly
50, 56.002, 98.385

Deuteranomaly
50, 53.362, 91.019

Tritanomaly
49, 23.148, 94.670

Monochromacy



Original Color
50, 56.491, 102.852

Achromatopsia
46, 0.006, 296.813

Achromatomaly
47, 26.030, 106.573

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 50, 56.820, 102.852 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(123, 123, 0)` looks like.

```
.text, #text, p{  
    color:rgb(123, 123, 0)  
}
```

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(123, 123, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(123, 123, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 50, 56.820, 102.852 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(123, 123, 0) }
```

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

```
.border{ border-color:rgb(123, 123, 0) }
```

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

Here you see how a box with a 4 pixel rgb(123, 123, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(123, 123, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(123, 123, 0);  
box-shadow:4px 4px 4px 4px rgb(123, 123,  
0) }
```

Background

The CSS property to change the background color of an element to CIELCh 50, 56.820, 102.852 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(123, 123, 0) }
```

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

```
.background{ background-color: rgb(123,  
123, 0) }
```

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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