

# Converting Colors

CIELCh(50, 51.422, 26.878)

Have a look what the booklet for  
CIELCh(50, 51.422, 26.878) contains.

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# Color

**CIELCh(50, 51.197, 26.951)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	C45252
RGB	196, 82, 82
RGB Percent	77%, 32%, 32%
CMY	0.2308, 0.6779, 0.6780
CMYK	0.00, 0.58, 0.58, 0.23
HSL	0°, 49%, 55%
HSV	0°, 58%, 77%
XYZ	27.3553, 18.4187, 10.1181
YIQ	116.0860, 67.9440, 24.1680

# Conversions

## Conversions Part 2

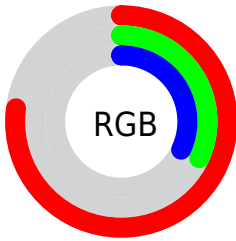
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	196, 82, 82
Decimal	12866130
CIE <sub>Lab</sub>	50.00, 45.64, 23.20
CIE <sub>LCh</sub>	50, 51.197, 26.951
Yxy	18.4187, 0.4894, 0.3295
Android (android.graphics.Color)	4291056210 (0xFFC45252)
YUV	116.0860, -16.8044, 70.0846
Hunter-Lab	42.9170, 38.6715, 16.0637

# Details

The CIELCh color **50, 51.197, 26.951** is a dark color, and the websafe version is hex **CC6666**. The color can be described as dark muted red. A complement of this color would be **73, 33.264, 196.959**, and the grayscale version is **49, 0.007, 296.813**.

A 20% lighter version of the original color is **70, 50.528, 27.001**, and **30, 51.367, 27.167** is the 20% darker color. If you saturate the color by 10%, you get **46, 61.055, 29.780**, and if you desaturate by 10%, it is **54, 41.314, 24.722**.

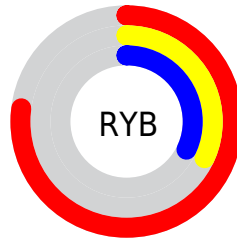
# Distribution



Red (77%)

Green (32%)

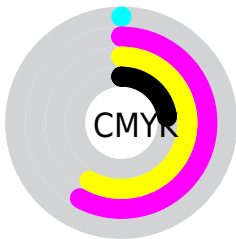
Blue (32%)



Red (77%)

Yellow (32%)

Blue (32%)

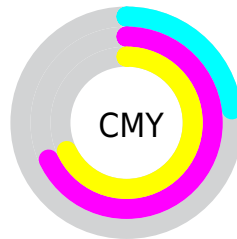


Cyan (0%)

Magenta (58%)

Yellow (58%)

Black (23%)



Cyan (23%)

Magenta (68%)












Yellow (68%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 50, 51.197, 26.951 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, 51.197, 26.951 by changing the saturation by 10% instead.



 50, 51.197, 26.951	 50, 51.197, 26.951
 100, 51.197, 26.951	 40, 51.197, 26.951
 70, 51.197, 26.951	 30, 51.197, 26.951
 80, 51.197, 26.951	 20, 51.197, 26.951
 90, 51.197, 26.951	 10, 51.197, 26.951
	 0, 51.197, 26.951

 50, 51.197, 26.951	 50, 51.197, 26.951
 46, 61.055, 29.780	 54, 41.314, 24.722
 44, 70.490, 33.157	 59, 31.706, 23.001
 42, 78.793, 36.689	 64, 22.567, 21.682

41, 84.748, 39.479

69, 14.000, 20.663

41, 85.829, 40.002

75, 6.039, 19.836

80, 1.328, 199.733

86, 8.143, 198.916

92, 14.457,  
198.509

96, 19.271,  
198.233

# Harmonies

# Complementary

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



50, 51.197, 26.951



73, 33.264, 196.959

# Rectangle

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



50, 51.197, 26.951



50, 51.197, 76.951



50, 51.197, 206.951



50, 51.197, 256.951

# Sweetspot

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



50, 51.194, 26.954



88, 16.183, 20.585



54, 71.491, 327.363



46, 10.911, 20.770



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



50, 51.194, 26.954



59, 77.872, 30.730



62, 41.769, 68.134



38, 4.187, 19.933



33, 73.725, 39.726



3, 13.998, 19.414





# Inverse Universe

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



73, 33.264, 196.959



92, 45.401, 196.676



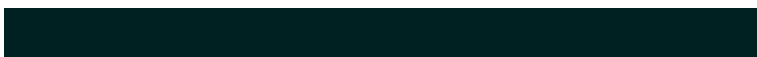
56, 35.297, 267.285



40, 3.948, 198.995



60, 35.467, 196.411



11, 12.441, 196.411



# Previews

## White Background



This preview shows how the CIELCh color 50, 51.197, 26.951 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 CIELCh color 50, 51.197, 26.951 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, 51.197, 26.951

## Background



This preview shows how black text looks on a background with the CIELCh color 50, 51.197, 26.951.



This preview shows how white text looks on a background with the CIELCh color 50, 51.197, 26.951.

# 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, 51.197, 26.951

### Protanopia

50, 12.575, 94.662

### Deuteranopia

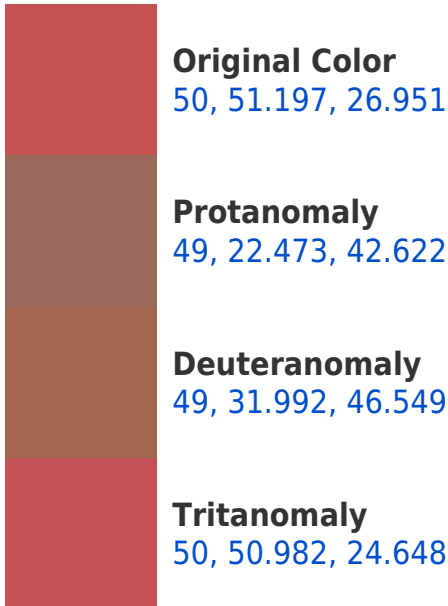
50, 25.841, 74.913



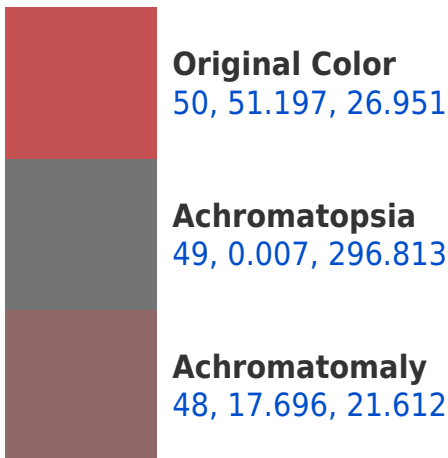
**Tritanopia**  
50, 50.662, 23.402



# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 50, 51.197, 26.951 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(196, 82, 82)` looks like.

```
.text, #text, p{  
    color:rgb(196, 82, 82)  
}
```

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(196, 82, 82) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(196, 82, 82) }
```

## Border

The CSS property to change the border of an element to CIELCh 50, 51.197, 26.951 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(196, 82, 82) }
```

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

```
.border{ border-color:rgb(196, 82, 82) }
```

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

Here you see how a box with a 4 pixel rgb(196, 82, 82) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(196, 82, 82); -webkit-box-  
shadow:4px 4px 4px 4px rgb(196, 82, 82);  
box-shadow:4px 4px 4px 4px rgb(196, 82,  
82) }
```

# Background

The CSS property to change the background color of an element to CIELCh 50, 51.197, 26.951 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(196, 82, 82) }
```

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

```
.background{ background-color: rgb(196, 82,  
82) }
```

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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