

Converting Colors

CIELCh(51, 68.100, 49.198)

Have a look what the booklet for
CIELCh(51, 68.100, 49.198) contains.

CIELCh(51, 68.100, 49.450)	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(51, 68.100, 49.450)

Conversions

Conversions Part 1

Format	Color
Hex	CB551F
RGB	203, 85, 31
RGB Percent	80%, 33%, 12%
CMY	0.2043, 0.6669, 0.8787
CMYK	0.00, 0.58, 0.85, 0.20
HSL	19°, 74%, 46%
HSV	19°, 85%, 80%
XYZ	28.0943, 19.2686, 3.5299
YIQ	114.1260, 87.6620, 8.2220

Conversions

Conversions Part 2

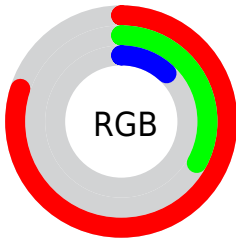
Format	Color
RYB	203, 110, 31
Decimal	13325599
CIELab	51.00, 44.27, 51.75
CIElCh	51, 68.100, 49.450
Yxy	19.2686, 0.5520, 0.3786
Android (android.graphics.Color)	4291515679 (0xFFCB551F)
YUV	114.1260, -40.9811, 77.9425
Hunter-Lab	43.8960, 37.4253, 25.9594

Details

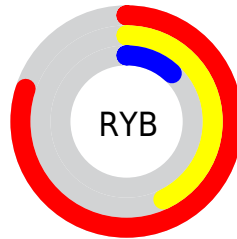
The CIELCh color **51, 68.100, 49.450** is a dark color, and the websafe version is hex **CC6633**. The color can be described as dark washed red. A complement of this color would be **58, 38.449, 251.675**, and the grayscale version is **48, 0.006, 296.813**.

A 20% lighter version of the original color is **69, 63.591, 51.079**, and **31, 62.471, 44.419** is the 20% darker color. If you saturate the color by 10%, you get **49, 75.730, 48.483**, and if you desaturate by 10%, it is **54, 59.062, 49.825**.

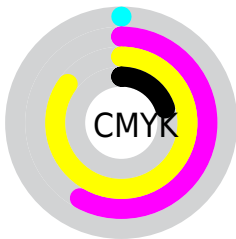
Distribution



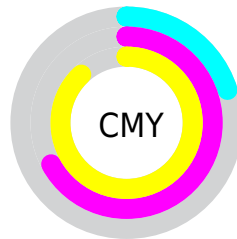
- Red (80%)
- Green (33%)
- Blue (12%)



- Red (80%)
- Yellow (43%)
- Blue (12%)



- Cyan (0%)
- Magenta (58%)
- Yellow (85%)
- Black (20%)



- Cyan (20%)
- Magenta (67%)
- Yellow (88%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 51, 68.100, 49.450 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 51, 68.100, 49.450 by changing the saturation by 10% instead.

51, 68.100, 49.450

51, 68.100, 49.450

100, 68.100,
49.450

41, 68.100, 49.450

71, 68.100, 49.450

31, 68.100, 49.450

81, 68.100, 49.450

21, 68.100, 49.450

91, 68.100, 49.450

11, 68.100, 49.450

1, 68.100, 49.450

0, 68.100, 49.450

51, 68.100, 49.450

51, 68.100, 49.450

49, 75.730, 48.483

54, 59.062, 49.825

47, 79.183, 47.899

57, 49.723, 50.037

60, 40.624, 50.281

64, 31.993, 50.622

68, 23.913, 51.071

72, 16.394, 51.612

76, 9.412, 52.219

80, 2.923, 52.786

84, 3.121, 233.845

Harmonies

Complementary

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



51, 68.100, 49.450



58, 38.449, 251.675

Rectangle

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



51, 68.100, 49.450



51, 68.100, 99.450



51, 68.100, 229.450



51, 68.100, 279.450

Sweetspot

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



51, 68.098, 49.453



88, 19.973, 51.579



47, 75.755, 342.310



45, 13.813, 51.379



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



51, 68.098, 49.453



59, 94.527, 47.447



70, 67.871, 90.000



41, 3.562, 52.548



39, 67.768, 48.399



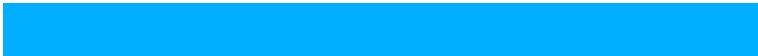
6, 15.170, 38.399

Inverse Universe

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



58, 38.449, 251.675



68, 50.634, 259.796



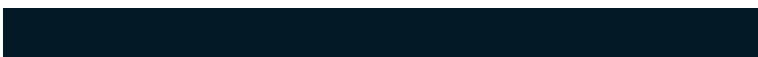
35, 84.064, 298.478



41, 3.393, 234.144



45, 36.138, 258.230



8, 12.208, 246.627

Previews

White Background



This preview shows how the CIELCh color 51, 68.100, 49.450 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 51, 68.100, 49.450 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 51, 68.100, 49.450

Background



This preview shows how black text looks on a background with the CIELCh color 51, 68.100, 49.450.



This preview shows how white text looks on a background with the CIELCh color 51, 68.100, 49.450.

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

51, 68.100, 49.450

Protanopia

51, 45.199, 95.197

Deuteranopia

51, 54.671, 83.419



Tritanopia
51, 55.068, 24.954

Trichromacy



Original Color
51, 68.100, 49.450

Protanomaly
50, 48.445, 72.959

Deuteranomaly
51, 57.098, 68.591

Tritanomaly
51, 58.700, 36.151

Monochromacy



Original Color
51, 68.100, 49.450

Achromatopsia
48, 0.006, 296.813

Achromatomaly
48, 22.968, 49.978

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 51, 68.100, 49.450 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(203, 85, 31)` looks like.

```
.text, #text, p{  
    color:rgb(203, 85, 31)  
}
```

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(203, 85, 31) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(203, 85, 31) }
```

Border

The CSS property to change the border of an element to CIELCh 51, 68.100, 49.450 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(203, 85, 31) }
```

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

```
.border{ border-color:rgb(203, 85, 31) }
```

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

Here you see how a box with a 4 pixel rgb(203, 85, 31) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(203, 85, 31); -webkit-box-  
shadow:4px 4px 4px 4px rgb(203, 85, 31);  
box-shadow:4px 4px 4px 4px rgb(203, 85,  
31) }
```

Background

The CSS property to change the background color of an element to CIELCh 51, 68.100, 49.450 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(203, 85, 31) }
```

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

```
.background{ background-color: rgb(203, 85,  
31) }
```

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