

Converting Colors

CIELCh(49, 92.859, 42.029)

Have a look what the booklet for
CIELCh(49, 92.859, 42.029) contains.

CIELCh(49, 92.842, 41.997)	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(49, 92.842, 41.997)

Conversions

Conversions Part 1

Format	Color
Hex	E32300
RGB	227, 35, 0
RGB Percent	89%, 14%, 0%
CMY	0.1088, 0.8614, 0.9991
CMYK	0.00, 0.84, 1.00, 0.11
HSL	9°, 100%, 45%
HSV	9°, 100%, 89%
XYZ	32.3699, 17.5941, 1.6961
YIQ	88.4180, 125.6670, 29.8190

Conversions

Conversions Part 2

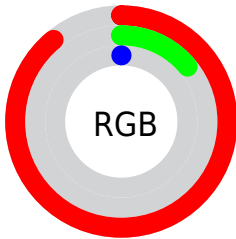
Format	Color
RYB	227, 41, 0
Decimal	14885632
CIELab	49.00, 69.00, 62.12
CIELCh	49, 92.842, 41.997
Yxy	17.5941, 0.6266, 0.3406
Android (android.graphics.Color)	4293075712 (0xFFE32300)
YUV	88.4180, -43.5901, 121.5364
Hunter-Lab	41.9453, 64.3475, 26.9642

Details

The CIELCh color **49, 92.842, 41.997** is a dark color, and the websafe version is hex **CC0000**. The color can be described as dark washed red. A complement of this color would be **72, 39.913, 226.112**, and the grayscale version is **38, 0.005, 296.813**.

A 20% lighter version of the original color is **63, 77.682, 43.848**, and **33, 73.854, 39.731** is the 20% darker color. If you saturate the color by 10%, you get **49, 92.903, 42.009**, and if you desaturate by 10%, it is **51, 85.618, 41.361**.

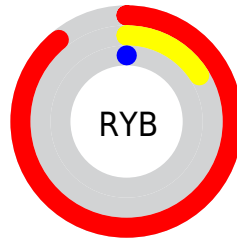
Distribution



Red (89%)

Green (14%)

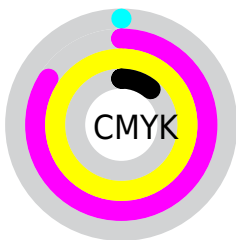
Blue (0%)



Red (89%)

Yellow (16%)

Blue (0%)

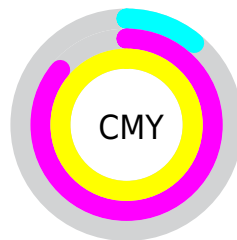


Cyan (0%)

Magenta (84%)

Yellow (100%)

Black (11%)



Cyan (11%)

Magenta (86%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 49, 92.842, 41.997 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 49, 92.842, 41.997 by changing the saturation by 10% instead.

■ 49, 92.842, 41.997

■ 49, 92.842, 41.997

■ 100, 92.842,
41.997

■ 39, 92.842, 41.997

■ 69, 92.842, 41.997

■ 29, 92.842, 41.997

■ 79, 92.842, 41.997

■ 19, 92.842, 41.997

■ 89, 92.842, 41.997

■ 9, 92.842, 41.997

■ 99, 92.842, 41.997

■ 0, 92.842, 41.997

■ 49, 92.842, 41.997

■ 49, 92.842, 41.997

■ 49, 92.903, 42.009

■ 51, 85.618, 41.361

■ 53, 75.804, 40.020

■ 57, 64.901, 38.479

■ 61, 53.914, 37.130

■ 65, 43.299, 36.079

■ 70, 33.270, 35.320

■ 75, 23.917, 34.812

■ 80, 15.263, 34.498

■ 85, 7.283, 34.313

Harmonies

Complementary

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



49, 92.842, 41.997



72, 39.913, 226.112

Rectangle

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



49, 92.842, 41.997



49, 92.842, 91.997



49, 92.842, 221.997



49, 92.842, 271.997

Sweetspot

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



49, 92.839, 41.999



83, 26.376, 34.823



52, 94.054, 335.366



42, 18.317, 35.015



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



49, 92.839, 41.999



55, 101.535, 41.891



68, 75.587, 73.654



45, 4.202, 34.305



38, 77.205, 42.319



8, 24.335, 30.381

Inverse Universe

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



72, 39.913, 226.112



80, 43.546, 226.357



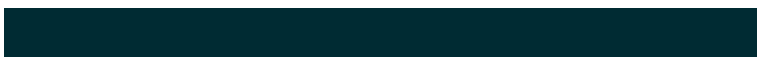
40, 88.430, 296.117



47, 3.954, 214.529



57, 33.331, 225.609



15, 14.075, 220.513

Previews

White Background



This preview shows how the CIELCh color 49, 92.842, 41.997 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 CIELCh color 49, 92.842, 41.997 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 49, 92.842, 41.997

Background



This preview shows how black text looks on a background with the CIELCh color 49, 92.842, 41.997.



This preview shows how white text looks on a background with the CIELCh color 49, 92.842, 41.997.

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

49, 92.842, 41.997

Protanopia

49, 48.220, 95.695

Deuteranopia

49, 55.957, 83.807



Tritanopia
49, 86.979, 36.911

Trichromacy



Original Color
49, 92.842, 41.997

Protanomaly
46, 57.400, 60.795

Deuteranomaly
46, 65.658, 58.232

Tritanomaly
49, 89.593, 39.255

Monochromacy



Original Color
49, 92.842, 41.997

Achromatopsia
38, 0.005, 296.813

Achromatomaly
38, 35.389, 36.155

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 49, 92.842, 41.997 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(227, 35, 0)` looks like.

```
.text, #text, p{  
    color:rgb(227, 35, 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(227, 35, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(227, 35, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 49, 92.842, 41.997 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(227, 35, 0) }
```

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

```
.border{ border-color:rgb(227, 35, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(227, 35, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(227, 35, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(227, 35, 0);  
box-shadow:4px 4px 4px 4px rgb(227, 35, 0)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 49, 92.842, 41.997 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(227, 35, 0) }
```

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

```
.background{ background-color: rgb(227, 35,  
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](#).

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