

Converting Colors

CIELCh(49, 90.128, 43.478)

Have a look what the booklet for
CIELCh(49, 90.128, 43.478) contains.

CIELCh(49, 89.971, 43.261)	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, 89.971, 43.261)

Conversions

Conversions Part 1

Format	Color
Hex	DF2D00
RGB	223, 45, 0
RGB Percent	87%, 18%, 0%
CMY	0.1250, 0.8229, 0.9996
CMYK	0.00, 0.80, 1.00, 0.13
HSL	12°, 100%, 44%
HSV	12°, 100%, 87%
XYZ	31.4123, 17.5941, 1.7435
YIQ	93.0920, 120.5330, 23.7410

Conversions

Conversions Part 2

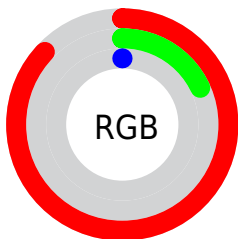
Format	Color
RYB	223, 56, 0
Decimal	14626048
CIELab	49.00, 65.52, 61.66
CIELCh	49, 89.971, 43.261
Yxy	17.5941, 0.6190, 0.3467
Android (android.graphics.Color)	4292816128 (0xFFDF2D00)
YUV	93.0920, -45.8944, 113.9293
Hunter-Lab	41.9453, 60.2722, 26.8973

Details

The CIELCh color **49, 89.971, 43.261** 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 **67, 39.807, 236.514**, and the grayscale version is **40, 0.006, 296.813**.

A 20% lighter version of the original color is **63, 76.388, 45.188**, and **32, 72.766, 39.662** is the 20% darker color. If you saturate the color by 10%, you get **49, 90.002, 43.265**, and if you desaturate by 10%, it is **51, 82.620, 43.209**.

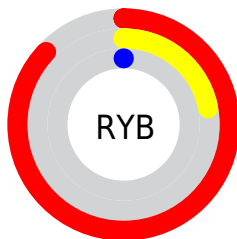
Distribution



Red (87%)

Green (18%)

Blue (0%)



Red (87%)

Yellow (22%)

Blue (0%)

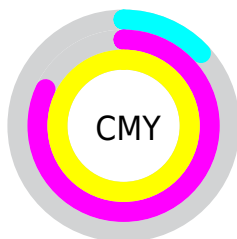


Cyan (0%)

Magenta (80%)

Yellow (100%)

Black (13%)



Cyan (13%)

Magenta (82%)

Yellow (100%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 49, 89.971, 43.261 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, 89.971, 43.261 by changing the saturation by 10% instead.

 49, 89.971, 43.261

 49, 89.971, 43.261

 100, 89.971,
43.261

 39, 89.971, 43.261

 69, 89.971, 43.261

 29, 89.971, 43.261

 79, 89.971, 43.261

 19, 89.971, 43.261

 89, 89.971, 43.261

 9, 89.971, 43.261

 99, 89.971, 43.261

 0, 89.971, 43.261

 49, 89.971, 43.261

 49, 89.971, 43.261

 49, 90.002, 43.265

 51, 82.620, 43.209

 54, 72.952, 42.495

■ 57, 62.315, 41.527

■ 61, 51.672, 40.667

■ 65, 41.450, 40.030

■ 69, 31.834, 39.623

■ 74, 22.890, 39.418

■ 79, 14.622, 39.372

■ 84, 6.997, 39.427

Harmonies

Complementary

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



49, 89.971, 43.261



67, 39.807, 236.514

Rectangle

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



49, 89.971, 43.261



49, 89.971, 93.261



49, 89.971, 223.261



49, 89.971, 273.261

Sweetspot

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



49, 89.968, 43.263



83, 25.580, 39.421



51, 89.297, 338.301



42, 17.765, 39.488



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, 89.968, 43.263



56, 99.800, 43.090



69, 74.832, 78.447



44, 4.003, 39.430



39, 74.975, 43.651



8, 22.310, 32.324

Inverse Universe

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



67, 39.807, 236.514



76, 44.076, 236.864



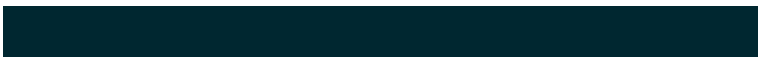
37, 94.183, 298.757



46, 3.774, 220.077



54, 33.283, 235.838



14, 13.542, 228.681

Previews

White Background



This preview shows how the CIELCh color 49, 89.971, 43.261 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, 89.971, 43.261 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, 89.971, 43.261

Background



This preview shows how black text looks on a background with the CIELCh color 49, 89.971, 43.261.



This preview shows how white text looks on a background with the CIELCh color 49, 89.971, 43.261.

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, 89.971, 43.261

Protanopia

49, 48.575, 95.704

Deuteranopia

49, 55.957, 83.807



Tritanopia
49, 81.566, 34.515

Trichromacy



Original Color
49, 89.971, 43.261

Protanomaly
47, 56.559, 63.858

Deuteranomaly
47, 64.298, 60.519

Tritanomaly
49, 85.377, 38.705

Monochromacy



Original Color
49, 89.971, 43.261

Achromatopsia
39, 0.006, 296.813

Achromatomaly
40, 33.453, 41.031

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 49, 89.971, 43.261 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(223, 45, 0)` looks like.

```
.text, #text, p{  
    color:rgb(223, 45, 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(223, 45, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(223, 45, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 49, 89.971, 43.261 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(223, 45, 0) }
```

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

```
.border{ border-color:rgb(223, 45, 0) }
```

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

Here you see how a box with a 4 pixel rgb(223, 45, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(223, 45, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(223, 45, 0);  
box-shadow:4px 4px 4px 4px rgb(223, 45, 0)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 49, 89.971, 43.261 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(223, 45, 0) }
```

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

```
.background{ background-color: rgb(223, 45,  
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