

Converting Colors

CIELCh(48, 89.307, 42.890)

Have a look what the booklet for
CIELCh(48, 89.307, 42.890) contains.

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Color

CIELCh(48, 89.428, 42.964)

Conversions

Conversions Part 1

Format	Color
Hex	DC2A00
RGB	220, 42, 0
RGB Percent	86%, 16%, 0%
CMY	0.1385, 0.8367, 1.0000
CMYK	0.00, 0.81, 1.00, 0.14
HSL	11°, 100%, 43%
HSV	11°, 100%, 86%
XYZ	30.2310, 16.7945, 1.6404
YIQ	90.4340, 119.5700, 24.6740

Conversions

Conversions Part 2

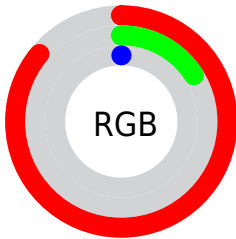
Format	Color
R _Y B	220, 52, 0
Decimal	14428672
CIE Lab	48.00, 65.44, 60.95
CIE LCh	48, 89.428, 42.964
Yxy	16.7945, 0.6212, 0.3451
Android (android.graphics.Color)	4292618752 (0xFFDC2A00)
YUV	90.4340, -44.5840, 113.6294
Hunter-Lab	40.9810, 59.9594, 26.3134

Details

The CIELCh color **48, 89.428, 42.964** 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, 39.115, 233.759**, and the grayscale version is **38, 0.005, 296.813**.

A 20% lighter version of the original color is **63, 77.084, 44.799**, and **32, 71.668, 39.584** is the 20% darker color. If you saturate the color by 10%, you get **48, 89.373, 42.928**, and if you desaturate by 10%, it is **50, 82.105, 42.688**.

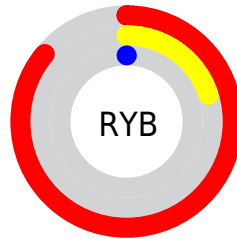
Distribution



Red (86%)

Green (16%)

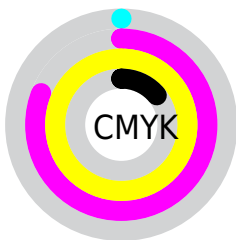
Blue (0%)



Red (86%)

Yellow (20%)

Blue (0%)

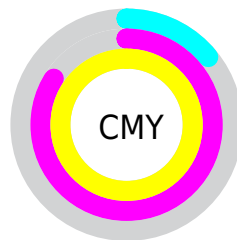


Cyan (0%)

Magenta (81%)

Yellow (100%)

Black (14%)



Cyan (14%)

Magenta (84%)

Yellow (100%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 48, 89.428, 42.964 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 48, 89.428, 42.964 by changing the saturation by 10% instead.

 48, 89.428, 42.964

 48, 89.428, 42.964

 100, 89.428,
42.964

 38, 89.428, 42.964

 68, 89.428, 42.964

 28, 89.428, 42.964

 78, 89.428, 42.964

 18, 89.428, 42.964

 88, 89.428, 42.964

 8, 89.428, 42.964

 98, 89.428, 42.964

 0, 89.428, 42.964

 48, 89.428, 42.964

 48, 89.428, 42.964

 48, 89.373, 42.928

 50, 82.105, 42.688

 53, 72.536, 41.811

■ 56, 61.994, 40.696

■ 60, 51.432, 39.711

■ 64, 41.276, 38.966

■ 68, 31.712, 38.467

■ 73, 22.812, 38.182

■ 78, 14.583, 38.065

■ 83, 6.994, 38.056

Harmonies

Complementary

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



48, 89.428, 42.964



67, 39.115, 233.759

Rectangle

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



48, 89.428, 42.964



48, 89.428, 92.964



48, 89.428, 222.964



48, 89.428, 272.964

Sweetspot

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



48, 89.373, 42.928



83, 25.772, 38.187



50, 89.391, 337.281



42, 17.899, 38.287



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



48, 89.373, 42.928



55, 100.290, 42.742



67, 73.821, 76.877



43, 3.956, 38.057



38, 74.525, 43.299



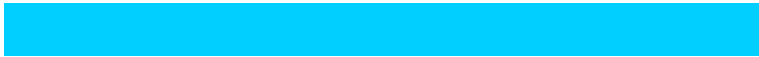
7, 21.067, 30.683

Inverse Universe

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



67, 39.115, 233.759



77, 43.805, 234.111



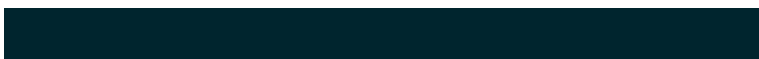
37, 90.763, 297.905



45, 3.728, 218.591



54, 32.749, 233.098



13, 13.100, 226.008

Previews

White Background



This preview shows how the CIELCh color 48, 89.428, 42.964 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 48, 89.428, 42.964 looks on a black 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

If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 48, 89.428, 42.964

Background



This preview shows how black text looks on a background with the CIELCh color 48, 89.428, 42.964.



This preview shows how white text looks on a background with the CIELCh color 48, 89.428, 42.964.

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

48, 89.428, 42.964

Protanopia

48, 47.740, 95.520

Deuteranopia

48, 55.165, 84.000



Tritanopia
48, 81.609, 35.155

Trichromacy



Original Color
48, 89.428, 42.964

Protanomaly
45, 55.862, 62.458

Deuteranomaly
46, 63.540, 60.331

Tritanomaly
48, 85.108, 38.941

Monochromacy



Original Color
48, 89.428, 42.964

Achromatopsia
38, 0.005, 296.813

Achromatomaly
38, 33.657, 39.244

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 48, 89.428, 42.964 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(220, 42, 0)` looks like.

```
.text, #text, p{  
    color:rgb(220, 42, 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(220, 42, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(220, 42, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 48, 89.428, 42.964 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(220, 42, 0) }
```

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

```
.border{ border-color:rgb(220, 42, 0) }
```

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

Here you see how a box with a 4 pixel rgb(220, 42, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(220, 42, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(220, 42, 0);  
box-shadow:4px 4px 4px 4px rgb(220, 42, 0)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 48, 89.428, 42.964 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(220, 42, 0) }
```

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

```
.background{ background-color: rgb(220, 42,  
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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