

Converting Colors

CIELCh(48, 91.444, 42.307)

Have a look what the booklet for
CIELCh(48, 91.444, 42.307) contains.

CIELCh(48, 91.159, 42.101)	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(48, 91.159, 42.101)

Conversions

Conversions Part 1

Format	Color
Hex	DE2300
RGB	222, 35, 0
RGB Percent	87%, 14%, 0%
CMY	0.1284, 0.8613, 0.9991
CMYK	0.00, 0.84, 1.00, 0.13
HSL	9°, 100%, 44%
HSV	9°, 100%, 87%
XYZ	30.8180, 16.7945, 1.6237
YIQ	86.9230, 122.6870, 28.7590

Conversions

Conversions Part 2

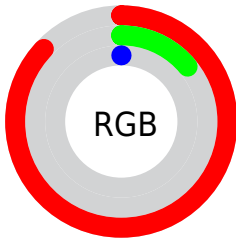
Format	Color
RYB	222, 42, 0
Decimal	14557952
CIELab	48.00, 67.64, 61.12
CIElCh	48, 91.159, 42.101
Yxy	16.7945, 0.6259, 0.3411
Android (android.graphics.Color)	4292748032 (0xFFDE2300)
YUV	86.9230, -42.8530, 118.4625
Hunter-Lab	40.9810, 62.5162, 26.3376

Details

The CIELCh color **48, 91.159, 42.101** 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 **70, 39.243, 226.834**, and the grayscale version is **37, 0.005, 296.813**.

A 20% lighter version of the original color is **62, 77.884, 43.538**, and **32, 72.036, 39.611** is the 20% darker color. If you saturate the color by 10%, you get **48, 91.223, 42.114**, and if you desaturate by 10%, it is **50, 83.969, 41.475**.

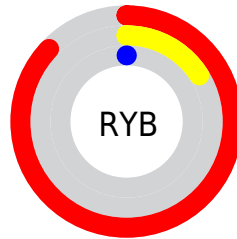
Distribution



Red (87%)

Green (14%)

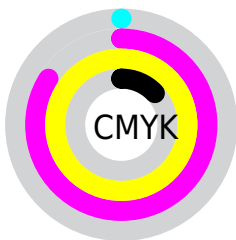
Blue (0%)



Red (87%)

Yellow (16%)

Blue (0%)

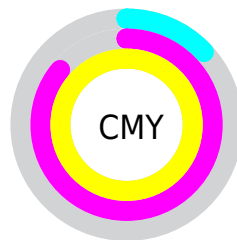


Cyan (0%)

Magenta (84%)

Yellow (100%)

Black (13%)



Cyan (13%)


Magenta (86%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 48, 91.159, 42.101 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, 91.159, 42.101 by changing the saturation by 10% instead.

 48, 91.159, 42.101  48, 91.159, 42.101

 100, 91.159,
42.101  38, 91.159, 42.101

 68, 91.159, 42.101  28, 91.159, 42.101

 78, 91.159, 42.101  18, 91.159, 42.101

 88, 91.159, 42.101  8, 91.159, 42.101

 98, 91.159, 42.101  0, 91.159, 42.101

 48, 91.159, 42.101  48, 91.159, 42.101

 48, 91.223, 42.114  50, 83.969, 41.475

 52, 74.304, 40.176

56, 63.595, 38.682

59, 52.818, 37.372

64, 42.413, 36.356

68, 32.586, 35.626

73, 23.425, 35.141

78, 14.948, 34.848

83, 7.132, 34.681

Harmonies

Complementary

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



48, 91.159, 42.101



70, 39.243, 226.834

Rectangle

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



48, 91.159, 42.101



48, 91.159, 92.101



48, 91.159, 222.101



48, 91.159, 272.101

Sweetspot

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



48, 91.156, 42.103



83, 26.311, 35.154



51, 92.509, 335.355



42, 18.272, 35.336



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, 91.156, 42.103



55, 101.419, 41.968



66, 74.333, 73.699



44, 4.115, 34.674



38, 76.268, 42.426



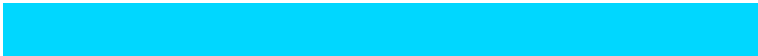
7, 22.939, 29.579

Inverse Universe

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



70, 39.243, 226.834



79, 43.539, 227.132



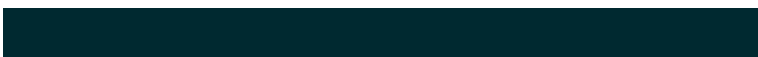
39, 86.840, 296.066



46, 3.873, 214.929



56, 32.967, 226.329



14, 13.624, 220.821

Previews

White Background



This preview shows how the CIELCh color 48, 91.159, 42.101 looks on a white background.

Color Contrast Check

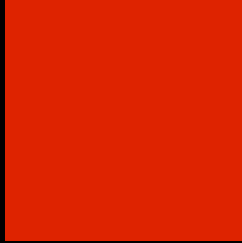
Large Text (above 18pt) WCAG AA ✓ Pass

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, 91.159, 42.101 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, 91.159, 42.101

Background



This preview shows how black text looks on a background with the CIELCh color 48, 91.159, 42.101.



This preview shows how white text looks on a background with the CIELCh color 48, 91.159, 42.101.

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, 91.159, 42.101

Protanopia

48, 47.383, 95.510

Deuteranopia

48, 55.165, 84.000



Tritanopia
48, 84.909, 36.537

Trichromacy



Original Color
48, 91.159, 42.101

Protanomaly
45, 56.433, 60.993

Deuteranomaly
46, 64.381, 58.698

Tritanomaly
48, 87.604, 39.044

Monochromacy



Original Color
48, 91.159, 42.101

Achromatopsia
37, 0.005, 296.813

Achromatomaly
37, 34.834, 37.257

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 48, 91.159, 42.101 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(222, 35, 0)` looks like.

```
.text, #text, p{  
    color:rgb(222, 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(222, 35, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 35, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 48, 91.159, 42.101 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(222, 35, 0) }
```

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

```
.border{ border-color:rgb(222, 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(222, 35, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 35, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 35, 0);  
box-shadow:4px 4px 4px 4px rgb(222, 35, 0)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 48, 91.159, 42.101 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 35, 0) }
```

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

```
.background{ background-color: rgb(222, 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