

Converting Colors

CIELCh(49, 90.803, 40.208)

Have a look what the booklet for
CIELCh(49, 90.803, 40.208) contains.

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Color

CIELCh(49, 90.776, 40.225)

Conversions

Conversions Part 1

Format	Color
Hex	E3230D
RGB	227, 35, 13
RGB Percent	89%, 14%, 5%
CMY	0.1084, 0.8646, 0.9477
CMYK	0.00, 0.85, 0.94, 0.11
HSL	6°, 89%, 47%
HSV	6°, 94%, 89%
XYZ	32.4564, 17.5941, 2.0779
YIQ	89.9000, 121.4940, 33.8620

Conversions

Conversions Part 2

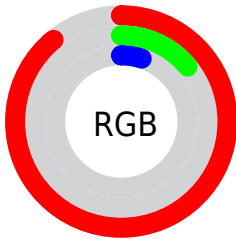
Format	Color
RYB	227, 38, 13
Decimal	14885645
CIELab	49.00, 69.31, 58.62
CIElCh	49, 90.776, 40.225
Yxy	17.5941, 0.6226, 0.3375
Android (android.graphics.Color)	4293075725 (0xFFE3230D)
YUV	89.9000, -37.9117, 120.2367
Hunter-Lab	41.9453, 64.7153, 26.4245

Details

The CIELCh color **49, 90.776, 40.225** 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 **76, 40.776, 213.230**, and the grayscale version is **38, 0.005, 296.813**.

A 20% lighter version of the original color is **63, 75.284, 41.579**, and **33, 73.854, 39.731** is the 20% darker color. If you saturate the color by 10%, you get **48, 94.402, 40.978**, and if you desaturate by 10%, it is **51, 82.238, 38.444**.

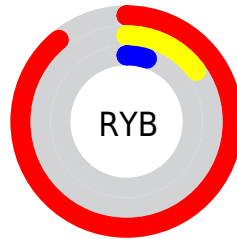
Distribution



Red (89%)

Green (14%)

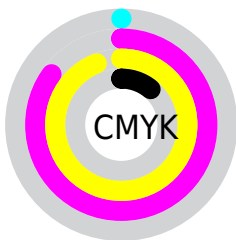
Blue (5%)



Red (89%)

Yellow (15%)

Blue (5%)

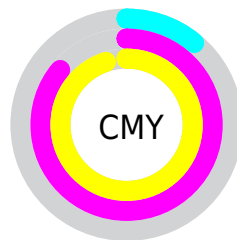


Cyan (0%)

Magenta (85%)

Yellow (94%)

Black (11%)



Cyan (11%)

Magenta (86%)

Yellow (95%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 49, 90.776, 40.225 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, 90.776, 40.225 by changing the saturation by 10% instead.

 49, 90.776, 40.225  49, 90.776, 40.225

 100, 90.776,
40.225  39, 90.776, 40.225

 69, 90.776, 40.225  29, 90.776, 40.225

 79, 90.776, 40.225  19, 90.776, 40.225

 89, 90.776, 40.225  9, 90.776, 40.225

 99, 90.776, 40.225  0, 90.776, 40.225

 49, 90.776, 40.225  49, 90.776, 40.225

 48, 94.402, 40.978  51, 82.238, 38.444

 54, 71.706, 36.181

■ 57, 60.606, 34.090

■ 62, 49.592, 32.380

■ 66, 38.995, 31.064

■ 71, 28.995, 30.087

■ 77, 19.675, 29.380

■ 82, 11.051, 28.870

■ 88, 3.099, 28.405

Harmonies

Complementary

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



49, 90.776, 40.225



76, 40.776, 213.230

Rectangle

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



49, 90.776, 40.225



49, 90.776, 90.225



49, 90.776, 220.225



49, 90.776, 270.225

Sweetspot

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



49, 90.773, 40.227



83, 25.479, 29.638



53, 98.479, 331.672



42, 17.906, 29.957



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, 90.773, 40.227



54, 103.084, 40.896



65, 74.153, 69.019



45, 4.390, 28.673



38, 78.505, 41.196



7, 25.276, 27.044

Inverse Universe

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



76, 40.776, 213.230



84, 44.602, 214.380



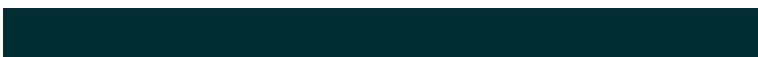
46, 73.880, 289.445



47, 4.128, 208.423



60, 34.185, 213.936



16, 14.531, 210.933

Previews

White Background



This preview shows how the CIELCh color 49, 90.776, 40.225 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, 90.776, 40.225 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, 90.776, 40.225

Background



This preview shows how black text looks on a background with the CIELCh color 49, 90.776, 40.225.



This preview shows how white text looks on a background with the CIELCh color 49, 90.776, 40.225.

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, 90.646, 40.327

Protanopia

49, 46.326, 95.638

Deuteranopia

49, 55.957, 83.807



Tritanopia
49, 87.465, 36.827

Trichromacy



Original Color
49, 90.646, 40.327

Protanomaly
46, 55.019, 59.147

Deuteranomaly
46, 64.623, 57.591

Tritanomaly
49, 88.818, 38.289

Monochromacy



Original Color
49, 90.646, 40.327

Achromatopsia
38, 0.005, 296.813

Achromatomaly
38, 34.255, 32.579

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 49, 90.776, 40.225 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, 13)` looks like.

```
.text, #text, p{  
    color:rgb(227, 35, 13)  
}
```

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, 13) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(227, 35, 13) }
```

Border

The CSS property to change the border of an element to CIELCh 49, 90.776, 40.225 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, 13) }
```

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

```
.border{ border-color:rgb(227, 35, 13) }
```

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, 13)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(227, 35, 13); -webkit-box-  
shadow:4px 4px 4px 4px rgb(227, 35, 13);  
box-shadow:4px 4px 4px 4px rgb(227, 35,  
13) }
```

Background

The CSS property to change the background color of an element to CIELCh 49, 90.776, 40.225 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, 13) }
```

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

```
.background{ background-color: rgb(227, 35,  
13) }
```

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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