

Converting Colors

CIELCh(49, 90.755, 37.580)

Have a look what the booklet for
CIELCh(49, 90.755, 37.580) contains.

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Color

CIELCh(49, 90.764, 37.711)

Conversions

Conversions Part 1

Format	Color
Hex	E61917
RGB	230, 25, 23
RGB Percent	90%, 10%, 9%
CMY	0.0978, 0.9015, 0.9096
CMYK	0.00, 0.89, 0.90, 0.10
HSL	1°, 82%, 50%
HSV	1°, 90%, 90%
XYZ	33.1565, 17.5941, 2.4614
YIQ	86.0670, 122.8220, 42.8380

Conversions

Conversions Part 2

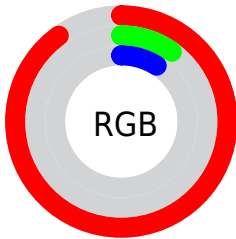
Format	Color
R_{YB}	230, 25, 23
Decimal	15079703
CIE Lab	49.00, 71.80, 55.52
CIE LCh	49, 90.764, 37.711
Yxy	17.5941, 0.6231, 0.3306
Android (android.graphics.Color)	4293269783 (0xFFE61917)
YUV	86.0670, -31.0920, 126.2292
Hunter-Lab	41.9453, 67.6948, 25.8825

Details

The CIELCh color **49, 90.764, 37.711** 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 **83, 45.095, 197.876**, and the grayscale version is **37, 0.005, 296.813**.

A 20% lighter version of the original color is **62, 74.401, 38.424**, and **34, 74.931, 39.792** is the 20% darker color. If you saturate the color by 10%, you get **48, 96.607, 40.076**, and if you desaturate by 10%, it is **51, 81.794, 34.391**.

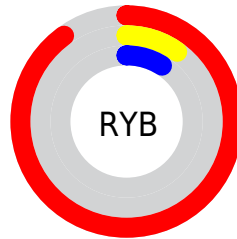
Distribution



Red (90%)

Green (10%)

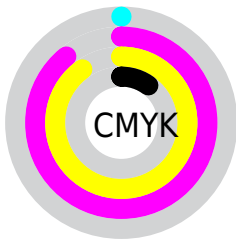
Blue (9%)



Red (90%)

Yellow (10%)

Blue (9%)

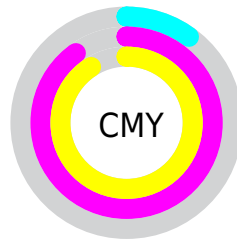


Cyan (0%)

Magenta (89%)

Yellow (90%)

Black (10%)



Cyan (10%)

Magenta (90%)

Yellow (91%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 49, 90.764, 37.711 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, 90.764, 37.711 by changing the saturation by 10% instead.

 49, 90.764, 37.711  49, 90.764, 37.711

 100, 90.764,
37.711  39, 90.764, 37.711

 69, 90.764, 37.711  29, 90.764, 37.711

 79, 90.764, 37.711  19, 90.764, 37.711

 89, 90.764, 37.711  9, 90.764, 37.711

 99, 90.764, 37.711  0, 90.764, 37.711

 49, 90.764, 37.711  49, 90.764, 37.711

 48, 96.607, 40.076  51, 81.794, 34.391

 48, 96.617, 40.080  54, 71.214, 31.008

■ 58, 60.034, 28.109

■ 62, 48.778, 25.799

■ 67, 37.801, 24.018

■ 73, 27.341, 22.657

■ 79, 17.530, 21.615

■ 85, 8.416, 20.790

■ 91, 0.017, 240.576

Harmonies

Complementary

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



49, 90.764, 37.711



83, 45.095, 197.876

Rectangle

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



49, 90.764, 37.711



49, 90.764, 87.711



49, 90.764, 217.711



49, 90.764, 267.711

Sweetspot

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



49, 90.761, 37.713



82, 26.477, 22.334



55, 104.779, 328.164



41, 18.075, 22.729



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, 90.761, 37.713



53, 104.455, 40.071



63, 74.034, 62.746



45, 4.769, 20.749



37, 79.844, 40.085



6, 26.911, 22.260

Inverse Universe

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



83, 45.095, 197.876



90, 49.387, 197.986



53, 60.945, 280.206



47, 4.490, 199.848



65, 37.801, 197.950



18, 15.897, 197.706

Previews

White Background



This preview shows how the CIELCh color 49, 90.764, 37.711 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, 90.764, 37.711 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, 90.764, 37.711

Background



This preview shows how black text looks on a background with the CIELCh color 49, 90.764, 37.711.



This preview shows how white text looks on a background with the CIELCh color 49, 90.764, 37.711.

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, 90.764, 37.711

Protanopia

49, 42.415, 96.092

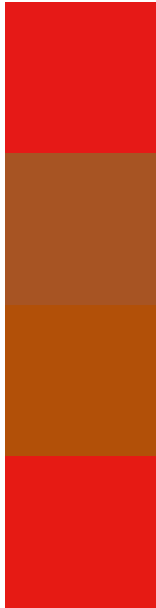
Deuteranopia

49, 55.957, 83.807



Tritanopia
49, 91.553, 38.554

Trichromacy



Original Color
49, 90.764, 37.711

Protanomaly
45, 52.440, 54.173

Deuteranomaly
46, 64.921, 55.665

Tritanomaly
49, 91.338, 38.372

Monochromacy



Original Color
49, 90.764, 37.711

Achromatopsia
37, 0.005, 296.813

Achromatomaly
37, 35.119, 26.490

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 49, 90.764, 37.711 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(230, 25, 23)` looks like.

```
.text, #text, p{  
  color:rgb(230, 25, 23)  
}
```

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(230, 25, 23) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(230, 25, 23) }
```

Border

The CSS property to change the border of an element to CIELCh 49, 90.764, 37.711 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(230, 25, 23) }
```

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

```
.border{ border-color:rgb(230, 25, 23) }
```

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

Here you see how a box with a 4 pixel rgb(230, 25, 23) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(230, 25, 23); -webkit-box-  
shadow:4px 4px 4px 4px rgb(230, 25, 23);  
box-shadow:4px 4px 4px 4px rgb(230, 25,  
23) }
```

Background

The CSS property to change the background color of an element to CIELCh 49, 90.764, 37.711 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(230, 25, 23) }
```

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

```
.background{ background-color: rgb(230, 25,  
23) }
```

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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