

Converting Colors

CIELCh(49, 87.636, 38.307)

Have a look what the booklet for
CIELCh(49, 87.636, 38.307) contains.

CIELCh(49, 87.469, 38.388)	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, 87.469, 38.388)

Conversions

Conversions Part 1

Format	Color
Hex	E22519
RGB	226, 37, 25
RGB Percent	89%, 15%, 10%
CMY	0.1132, 0.8542, 0.9016
CMYK	0.00, 0.84, 0.89, 0.11
HSL	4°, 80%, 49%
HSV	4°, 89%, 89%
XYZ	32.2483, 17.5941, 2.6216
YIQ	92.1430, 116.4960, 36.3360

Conversions

Conversions Part 2

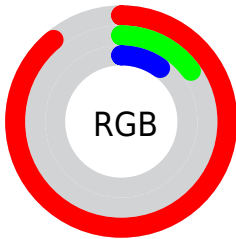
Format	Color
R _Y B	226, 38, 25
Decimal	14820633
CIE Lab	49.00, 68.56, 54.32
CIE LCh	49, 87.469, 38.388
Yxy	17.5941, 0.6147, 0.3354
Android (android.graphics.Color)	4293010713 (0xFFE22519)
YUV	92.1430, -33.1015, 117.3926
Hunter-Lab	41.9453, 63.8297, 25.6560

Details

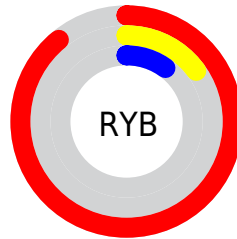
The CIELCh color **49, 87.469, 38.388** is a dark color, and the websafe version is hex **CC0000**. The color can be described as dark washed red. A complement of this color would be **78, 41.825, 205.645**, and the grayscale version is **39, 0.006, 296.813**.

A 20% lighter version of the original color is **63, 72.715, 39.371**, and **33, 73.854, 39.731** is the 20% darker color. If you saturate the color by 10%, you get **48, 94.095, 40.269**, and if you desaturate by 10%, it is **51, 77.913, 35.702**.

Distribution



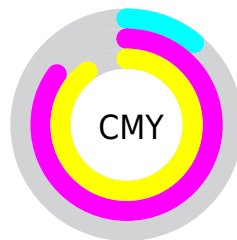
- Red (89%)
- Green (15%)
- Blue (10%)



- Red (89%)
- Yellow (15%)
- Blue (10%)



- Cyan (0%)
- Magenta (84%)
- Yellow (89%)
- Black (11%)



- Cyan (11%)
- Magenta (85%)
- Yellow (90%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 49, 87.469, 38.388 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, 87.469, 38.388 by changing the saturation by 10% instead.

 49, 87.469, 38.388

 49, 87.469, 38.388

 100, 87.469,
38.388

 39, 87.469, 38.388

 69, 87.469, 38.388

 29, 87.469, 38.388

 79, 87.469, 38.388

 19, 87.469, 38.388

 89, 87.469, 38.388

 9, 87.469, 38.388

 99, 87.469, 38.388

 0, 87.469, 38.388

 49, 87.469, 38.388

 49, 87.469, 38.388

 48, 94.095, 40.269

 51, 77.913, 35.702

 48, 94.718, 40.505

 54, 67.120, 32.996

■ 58, 56.024, 30.691

■ 63, 45.094, 28.864

■ 68, 34.609, 27.467

■ 73, 24.730, 26.417

■ 79, 15.531, 25.631

■ 85, 7.020, 25.018

■ 91, 0.833, 205.427

Harmonies

Complementary

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



49, 87.469, 38.388



78, 41.825, 205.645

Rectangle

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



49, 87.469, 38.388



49, 87.469, 88.388



49, 87.469, 218.388



49, 87.469, 268.388

Sweetspot

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



49, 87.466, 38.390



83, 25.294, 26.265



54, 99.348, 330.068



42, 17.279, 26.576



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, 87.466, 38.390



54, 103.823, 40.445



65, 71.676, 67.401



44, 4.461, 25.049



37, 78.288, 40.650



6, 24.501, 23.991

Inverse Universe

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



78, 41.825, 205.645



87, 46.286, 206.735



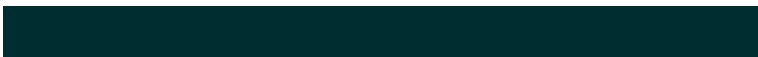
50, 65.149, 284.467



46, 4.197, 204.500



62, 35.095, 206.477



16, 14.579, 204.714

Previews

White Background



This preview shows how the CIELCh color 49, 87.469, 38.388 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, 87.469, 38.388 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, 87.469, 38.388

Background



This preview shows how black text looks on a background with the CIELCh color 49, 87.469, 38.388.



This preview shows how white text looks on a background with the CIELCh color 49, 87.469, 38.388.

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, 87.469, 38.388

Protanopia

49, 41.602, 95.340

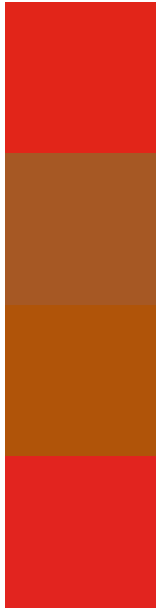
Deuteranopia

49, 55.957, 83.807



Tritanopia
49, 85.316, 36.090

Trichromacy



Original Color
49, 87.469, 38.388

Protanomaly
46, 51.158, 56.620

Deuteranomaly
46, 63.302, 57.770

Tritanomaly
49, 86.099, 36.867

Monochromacy



Original Color
49, 87.469, 38.388

Achromatopsia
39, 0.006, 296.813

Achromatomaly
39, 32.747, 28.683

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 49, 87.469, 38.388 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(226, 37, 25)` looks like.

```
.text, #text, p{  
    color:rgb(226, 37, 25)  
}
```

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(226, 37, 25) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(226, 37, 25) }
```

Border

The CSS property to change the border of an element to CIELCh 49, 87.469, 38.388 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(226, 37, 25) }
```

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

```
.border{ border-color:rgb(226, 37, 25) }
```

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

Here you see how a box with a 4 pixel rgb(226, 37, 25) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(226, 37, 25); -webkit-box-  
shadow:4px 4px 4px 4px rgb(226, 37, 25);  
box-shadow:4px 4px 4px 4px rgb(226, 37,  
25) }
```

Background

The CSS property to change the background color of an element to CIELCh 49, 87.469, 38.388 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(226, 37, 25) }
```

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

```
.background{ background-color: rgb(226, 37,  
25) }
```

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