

Converting Colors

CIELCh(48, 87.957, 31.537)

Have a look what the booklet for
CIELCh(48, 87.957, 31.537) contains.

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Color

CIELCh(48, 87.873, 31.841)

Conversions

Conversions Part 1

Format	Color
Hex	E50028
RGB	229, 0, 40
RGB Percent	90%, 0%, 16%
CMY	0.1011, 1.0000, 0.8413
CMYK	0.00, 1.00, 0.82, 0.10
HSL	349°, 100%, 45%
HSV	349°, 100%, 90%
XYZ	32.7443, 16.7945, 3.5656
YIQ	73.0310, 123.6440, 60.9880

Conversions

Conversions Part 2

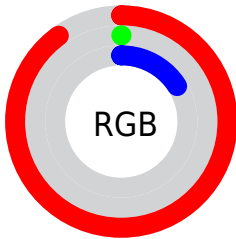
Format	Color
RYB	229, 0, 40
Decimal	15007784
CIELab	48.00, 74.65, 46.36
CIElCh	48, 87.873, 31.841
Yxy	16.7945, 0.6166, 0.3163
Android (android.graphics.Color)	4293197864 (0xFFE50028)
YUV	73.0310, -16.2843, 136.7848
Hunter-Lab	40.9810, 70.9065, 23.5282

Details

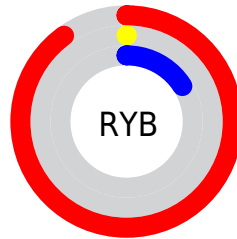
The CIELCh color **48, 87.873, 31.841** is a dark color, and the websafe version is hex **FF0033**. The color can be described as dark washed red. A complement of this color would be **82, 55.850, 173.025**, and the grayscale version is **31, 0.005, 296.813**.

A 20% lighter version of the original color is **61, 72.156, 30.905**, and **34, 74.931, 39.792** is the 20% darker color. If you saturate the color by 10%, you get **48, 87.736, 31.947**, and if you desaturate by 10%, it is **49, 81.575, 26.802**.

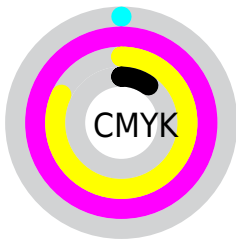
Distribution



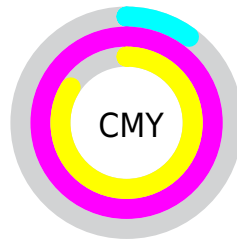
- Red (90%)
- Green (0%)
- Blue (16%)



- Red (90%)
- Yellow (0%)
- Blue (16%)



- Cyan (0%)
- Magenta (100%)
- Yellow (82%)
- Black (10%)



- Cyan (10%)
- Magenta (100%)
- Yellow (84%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 48, 87.873, 31.841 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, 87.873, 31.841 by changing the saturation by 10% instead.

 48, 87.873, 31.841

 48, 87.873, 31.841

 100, 87.873,
31.841

 38, 87.873, 31.841

 68, 87.873, 31.841

 28, 87.873, 31.841

 78, 87.873, 31.841

 18, 87.873, 31.841

 88, 87.873, 31.841

 8, 87.873, 31.841

 98, 87.873, 31.841

 0, 87.873, 31.841

 48, 87.873, 31.841

 48, 87.873, 31.841

 48, 87.736, 31.947

 49, 81.575, 26.802

 51, 74.485, 21.950

■ 54, 66.297, 17.880

■ 58, 57.159, 14.619

■ 62, 47.402, 12.049

■ 67, 37.407, 10.016

■ 73, 27.493, 8.386

■ 79, 17.883, 7.051

■ 85, 8.701, 5.919

Harmonies

Complementary

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



48, 87.873, 31.841



82, 55.850, 173.025

Rectangle

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



48, 87.873, 31.841



48, 87.873, 81.841



48, 87.873, 211.841



48, 87.873, 261.841

Sweetspot

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



48, 87.736, 31.947



80, 29.989, 8.411



47, 108.428, 321.203



40, 20.649, 9.063



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, 87.736, 31.947



53, 95.412, 32.276



53, 86.889, 47.777



45, 4.940, 5.861



37, 72.120, 31.014



7, 26.691, 14.402

Inverse Universe

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



48, 87.736, 31.947



53, 95.412, 32.276



61, 46.778, 259.941



45, 4.940, 5.861



37, 72.120, 31.014



7, 26.691, 14.402

Previews

White Background



This preview shows how the CIELCh color 48, 87.873, 31.841 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 CIE LCh color 48, 87.873, 31.841 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, 87.873, 31.841

Background



This preview shows how black text looks on a background with the CIELCh color 48, 87.873, 31.841.



This preview shows how white text looks on a background with the CIELCh color 48, 87.873, 31.841.

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, 87.785, 32.074

Protanopia

49, 30.389, 95.496

Deuteranopia

49, 51.198, 83.214



Tritanopia
48, 94.835, 40.819

Trichromacy



Original Color
48, 87.785, 32.074

Protanomaly
43, 46.562, 39.032

Deuteranomaly
44, 61.280, 47.821

Tritanomaly
48, 92.745, 38.416

Monochromacy



Original Color
48, 87.785, 32.074

Achromatopsia
31, 0.005, 296.813

Achromatomaly
32, 38.749, 15.024

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 48, 87.873, 31.841 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(229, 0, 40)` looks like.

```
.text, #text, p{  
    color:rgb(229, 0, 40)  
}
```

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(229, 0, 40) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(229, 0, 40) }
```

Border

The CSS property to change the border of an element to CIELCh 48, 87.873, 31.841 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(229, 0, 40) }
```

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

```
.border{ border-color:rgb(229, 0, 40) }
```

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

Here you see how a box with a 4 pixel rgb(229, 0, 40) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(229, 0, 40); -webkit-box-  
shadow:4px 4px 4px 4px rgb(229, 0, 40);  
box-shadow:4px 4px 4px 4px rgb(229, 0, 40)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 48, 87.873, 31.841 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(229, 0, 40) }
```

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

```
.background{ background-color: rgb(229, 0,  
40) }
```

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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