

Converting Colors

CIELCh(50, 87.986, 30.675)

Have a look what the booklet for
CIELCh(50, 87.986, 30.675) contains.

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Color

CIELCh(50, 87.989, 30.593)

Conversions

Conversions Part 1

Format	Color
Hex	ED0A30
RGB	237, 10, 48
RGB Percent	93%, 4%, 19%
CMY	0.0708, 0.9615, 0.8119
CMYK	0.00, 0.96, 0.80, 0.07
HSL	350°, 92%, 48%
HSV	350°, 96%, 93%
XYZ	35.5424, 18.4187, 4.4735
YIQ	82.2050, 123.0940, 59.9420

Conversions

Conversions Part 2

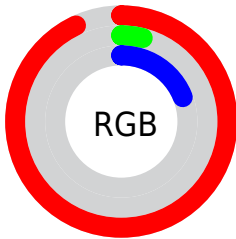
Format	Color
RYB	237, 10, 48
Decimal	15534640
CIELab	50.00, 75.74, 44.78
CIELCh	50, 87.989, 30.593
Yxy	18.4187, 0.6082, 0.3152
Android (android.graphics.Color)	4293724720 (0xFFED0A30)
YUV	82.2050, -16.8631, 135.7552
Hunter-Lab	42.9170, 72.7230, 23.8617

Details

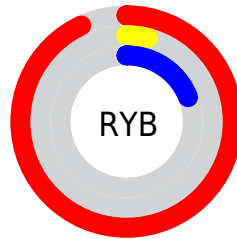
The CIELCh color **50, 87.989, 30.593** is a dark color, and the websafe version is hex **FF0033**. The color can be described as dark washed red. A complement of this color would be **84, 55.927, 174.638**, and the grayscale version is **35, 0.005, 296.813**.

A 20% lighter version of the original color is **62, 69.129, 28.451**, and **35, 76.409, 38.945** is the 20% darker color. If you saturate the color by 10%, you get **50, 90.581, 32.639**, and if you desaturate by 10%, it is **51, 81.240, 25.456**.

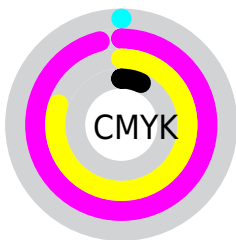
Distribution



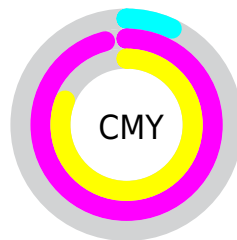
- Red (93%)
- Green (4%)
- Blue (19%)



- Red (93%)
- Yellow (4%)
- Blue (19%)



- Cyan (0%)
- Magenta (96%)
- Yellow (80%)
- Black (7%)



- Cyan (7%)
- Magenta (96%)
- Yellow (81%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 50, 87.989, 30.593 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 50, 87.989, 30.593 by changing the saturation by 10% instead.

■ 50, 87.989, 30.593

■ 50, 87.989, 30.593

■ 100, 87.989,
30.593

■ 40, 87.989, 30.593

■ 70, 87.989, 30.593

■ 30, 87.989, 30.593

■ 80, 87.989, 30.593

■ 20, 87.989, 30.593

■ 90, 87.989, 30.593

■ 10, 87.989, 30.593

■ 0, 87.989, 30.593

■ 50, 87.989, 30.593

■ 50, 87.989, 30.593

■ 50, 90.581, 32.639

■ 51, 81.240, 25.456

■ 54, 73.370, 20.895

■ 57, 64.428, 17.147

61, 54.661, 14.170

66, 44.444, 11.827

72, 34.150, 9.968

78, 24.064, 8.470

84, 14.368, 7.232

90, 5.156, 6.141

Harmonies

Complementary

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



50, 87.989, 30.593



84, 55.927, 174.638

Rectangle

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



50, 87.989, 30.593



50, 87.989, 80.593



50, 87.989, 210.593



50, 87.989, 260.593

Sweetspot

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



50, 87.986, 30.595



81, 28.882, 8.925



49, 110.192, 321.386



40, 20.013, 9.571



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



50, 87.986, 30.595



53, 95.975, 32.857



56, 86.337, 48.306



46, 5.017, 6.533



38, 73.346, 31.677



7, 27.971, 15.800

Inverse Universe

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



50, 87.986, 30.595



53, 95.975, 32.857



64, 46.808, 257.938



46, 5.017, 6.533



38, 73.346, 31.677



7, 27.971, 15.800

Previews

White Background



This preview shows how the CIELCh color 50, 87.989, 30.593 looks on a white 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

Black Background



This preview shows how the CIELCh color 50, 87.989, 30.593 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 50, 87.989, 30.593

Background



This preview shows how black text looks on a background with the CIELCh color 50, 87.989, 30.593.



This preview shows how white text looks on a background with the CIELCh color 50, 87.989, 30.593.

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

50, 87.989, 30.593

Protanopia

50, 26.903, 95.895

Deuteranopia

50, 48.873, 82.353



Tritanopia
50, 95.775, 39.770

Trichromacy



Original Color
50, 87.989, 30.593

Protanomaly
45, 44.330, 36.372

Deuteranomaly
46, 59.396, 46.548

Tritanomaly
50, 93.431, 37.378

Monochromacy



Original Color
50, 87.989, 30.593

Achromatopsia
35, 0.005, 296.813

Achromatomaly
35, 37.451, 14.295

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 50, 87.989, 30.593 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(237, 10, 48)` looks like.

```
.text, #text, p{  
  color:rgb(237, 10, 48)  
}
```

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(237, 10, 48) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(237, 10, 48) }
```

Border

The CSS property to change the border of an element to CIELCh 50, 87.989, 30.593 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(237, 10, 48) }
```

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

```
.border{ border-color:rgb(237, 10, 48) }
```

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

Here you see how a box with a 4 pixel rgb(237, 10, 48) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(237, 10, 48); -webkit-box-  
shadow:4px 4px 4px 4px rgb(237, 10, 48);  
box-shadow:4px 4px 4px 4px rgb(237, 10,  
48) }
```

Background

The CSS property to change the background color of an element to CIELCh 50, 87.989, 30.593 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(237, 10, 48) }
```

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

```
.background{ background-color: rgb(237, 10,  
48) }
```

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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