

Converting Colors

CIELCh(50, 80.034, 33.890)

Have a look what the booklet for
CIELCh(50, 80.034, 33.890) contains.

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Color

CIELCh(50, 79.987, 33.954)

Conversions

Conversions Part 1

Format	Color
Hex	E2302F
RGB	226, 48, 47
RGB Percent	89%, 19%, 18%
CMY	0.1148, 0.8129, 0.8164
CMYK	0.00, 0.79, 0.79, 0.11
HSL	0°, 75%, 53%
HSV	0°, 79%, 89%
XYZ	32.8339, 18.4187, 4.4941
YIQ	101.1080, 106.4090, 37.4250

Conversions

Conversions Part 2

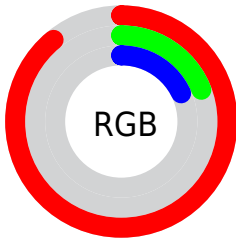
Format	Color
R_{YB}	226, 48, 47
Decimal	14823471
CIE _{Lab}	50.00, 66.35, 44.67
CIE _{LCh}	50, 79.987, 33.954
Yxy	18.4187, 0.5890, 0.3304
Android (android.graphics.Color)	4293013551 (0xFFE2302F)
YUV	101.1080, -26.6752, 109.5303
Hunter-Lab	42.9170, 61.4577, 23.8332

Details

The CIELCh color **50, 79.987, 33.954** is a dark color, and the websafe version is hex **FF3333**. The color can be described as dark washed red. A complement of this color would be **82, 43.225, 197.183**, and the grayscale version is **43, 0.006, 296.813**.

A 20% lighter version of the original color is **64, 65.360, 34.003**, and **33, 73.966, 39.505** is the 20% darker color. If you saturate the color by 10%, you get **48, 88.952, 37.385**, and if you desaturate by 10%, it is **53, 69.526, 30.540**.

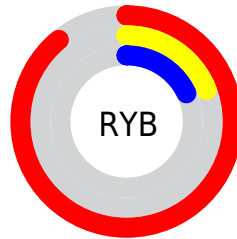
Distribution



Red (89%)

Green (19%)

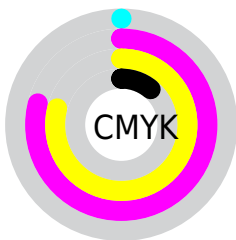
Blue (18%)



Red (89%)

Yellow (19%)

Blue (18%)

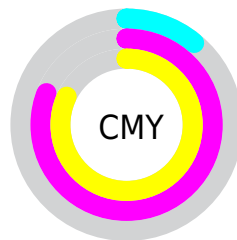


Cyan (0%)

Magenta (79%)

Yellow (79%)

Black (11%)



Cyan (11%)

Magenta (81%)

Yellow (82%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 50, 79.987, 33.954 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, 79.987, 33.954 by changing the saturation by 10% instead.

 50, 79.987, 33.954

 50, 79.987, 33.954

 100, 79.987,
33.954

 40, 79.987, 33.954

 70, 79.987, 33.954

 30, 79.987, 33.954

 80, 79.987, 33.954

 20, 79.987, 33.954

 90, 79.987, 33.954

 10, 79.987, 33.954

 0, 79.987, 33.954

 50, 79.987, 33.954

 50, 79.987, 33.954

 48, 88.952, 37.385

 53, 69.526, 30.540

 47, 94.897, 39.863

 57, 58.506, 27.637

 47, 95.305, 40.041

 61, 47.420, 25.334

67, 36.615, 23.558

72, 26.322, 22.201

78, 16.671, 21.158

84, 7.704, 20.327

90, 0.589, 200.822

97, 8.253, 199.392

Harmonies

Complementary

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



50, 79.987, 33.954



82, 43.225, 197.183

Rectangle

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



50, 79.987, 33.954



50, 79.987, 83.954



50, 79.987, 213.954



50, 79.987, 263.954

Sweetspot

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



50, 79.984, 33.956



84, 23.374, 21.636



56, 98.377, 328.003



42, 16.280, 22.026



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, 79.984, 33.956



54, 102.007, 39.054



65, 65.271, 64.955



44, 4.704, 20.341



36, 79.043, 40.011



6, 25.451, 21.185

Inverse Universe

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



82, 43.225, 197.183



91, 49.504, 197.162



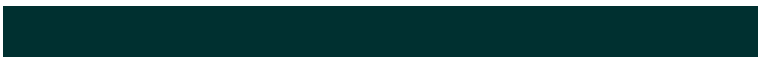
56, 53.065, 275.411



46, 4.431, 199.410



65, 37.666, 197.165



17, 15.490, 197.038

Previews

White Background



This preview shows how the CIELCh color 50, 79.987, 33.954 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, 79.987, 33.954 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, 79.987, 33.954

Background



This preview shows how black text looks on a background with the CIELCh color 50, 79.987, 33.954.



This preview shows how white text looks on a background with the CIELCh color 50, 79.987, 33.954.

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, 79.987, 33.954

Protanopia

50, 30.690, 96.605

Deuteranopia

50, 48.292, 82.766



Tritanopia
50, 79.719, 33.627

Trichromacy



Original Color
50, 79.987, 33.954

Protanomaly
47, 40.869, 50.950

Deuteranomaly
48, 55.312, 54.503

Tritanomaly
50, 79.719, 33.627

Monochromacy



Original Color
50, 79.987, 33.954

Achromatopsia
43, 0.006, 296.813

Achromatomaly
42, 29.238, 24.877

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 50, 79.987, 33.954 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, 48, 47)` looks like.

```
.text, #text, p{  
    color:rgb(226, 48, 47)  
}
```

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, 48, 47) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(226, 48, 47) }
```

Border

The CSS property to change the border of an element to CIELCh 50, 79.987, 33.954 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, 48, 47) }
```

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

```
.border{ border-color:rgb(226, 48, 47) }
```

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

Here you see how a box with a 4 pixel `rgb(226, 48, 47)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(226, 48, 47); -webkit-box-  
shadow:4px 4px 4px 4px rgb(226, 48, 47);  
box-shadow:4px 4px 4px 4px rgb(226, 48,  
47) }
```

Background

The CSS property to change the background color of an element to CIELCh 50, 79.987, 33.954 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(226, 48, 47) }
```

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

```
.background{ background-color: rgb(226, 48,  
47) }
```

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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