

Converting Colors

CIELCh(50, 90.457, 31.616)

Have a look what the booklet for
CIELCh(50, 90.457, 31.616) contains.

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Color

CIELCh(50, 90.463, 31.850)

Conversions

Conversions Part 1

Format	Color
Hex	EF002B
RGB	239, 0, 43
RGB Percent	94%, 0%, 17%
CMY	0.0644, 1.0000, 0.8325
CMYK	0.00, 1.00, 0.82, 0.06
HSL	349°, 100%, 47%
HSV	349°, 100%, 94%
XYZ	35.8693, 18.4187, 3.9229
YIQ	76.3630, 128.6410, 64.0410

Conversions

Conversions Part 2

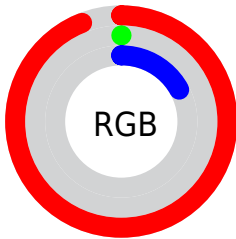
Format	Color
RYB	239, 0, 43
Decimal	15663147
CIELab	50.00, 76.84, 47.74
CIElCh	50, 90.463, 31.850
Yxy	18.4187, 0.6162, 0.3164
Android (android.graphics.Color)	4293853227 (0xFFEF002B)
YUV	76.3630, -16.4480, 142.6326
Hunter-Lab	42.9170, 74.0826, 24.6224

Details

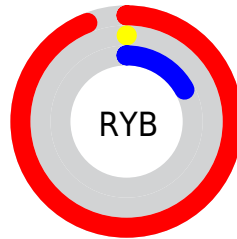
The CIELCh color **50, 90.463, 31.850** is a dark color, and the websafe version is hex **FF0033**. The color can be described as dark washed red. A complement of this color would be **85, 57.777, 172.714**, and the grayscale version is **32, 0.005, 296.813**.

A 20% lighter version of the original color is **62, 70.473, 30.205**, and **36, 78.096, 39.924** is the 20% darker color. If you saturate the color by 10%, you get **50, 90.390, 31.904**, and if you desaturate by 10%, it is **51, 84.096, 26.719**.

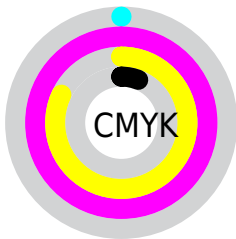
Distribution



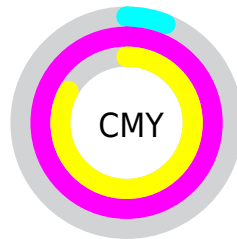
- Red (94%)
- Green (0%)
- Blue (17%)



- Red (94%)
- Yellow (0%)
- Blue (17%)



- Cyan (0%)
- Magenta (100%)
- Yellow (82%)
- Black (6%)



- Cyan (6%)
- Magenta (100%)
- Yellow (83%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 50, 90.463, 31.850 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, 90.463, 31.850 by changing the saturation by 10% instead.

 50, 90.463, 31.850

 50, 90.463, 31.850

 100, 90.463,
31.850

 40, 90.463, 31.850

 70, 90.463, 31.850

 30, 90.463, 31.850

 80, 90.463, 31.850

 20, 90.463, 31.850

 90, 90.463, 31.850

 10, 90.463, 31.850

 0, 90.463, 31.850

 50, 90.463, 31.850

 50, 90.463, 31.850

 50, 90.390, 31.904

 51, 84.096, 26.719

 53, 76.834, 21.838

 56, 68.429, 17.745

■ 60, 59.027, 14.468

■ 65, 48.971, 11.885

■ 70, 38.656, 9.844

■ 76, 28.417, 8.207

■ 82, 18.487, 6.868

■ 88, 8.996, 5.731

Harmonies

Complementary

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



50, 90.463, 31.850



85, 57.777, 172.714

Rectangle

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



50, 90.463, 31.850



50, 90.463, 81.850



50, 90.463, 211.850



50, 90.463, 261.850

Sweetspot

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



50, 90.390, 31.904



80, 30.001, 8.223



49, 111.762, 321.188



40, 20.655, 8.875



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, 90.390, 31.904



53, 95.252, 32.107



55, 89.631, 47.699



47, 5.124, 5.675



38, 73.604, 30.957



8, 29.065, 16.472

Inverse Universe

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



50, 90.390, 31.904



53, 95.252, 32.107



64, 48.274, 260.070



47, 5.124, 5.675



38, 73.604, 30.957



8, 29.065, 16.472

Previews

White Background



This preview shows how the CIELCh color 50, 90.463, 31.850 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 CIE LCh color 50, 90.463, 31.850 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, 90.463, 31.850

Background



This preview shows how black text looks on a background with the CIELCh color 50, 90.463, 31.850.



This preview shows how white text looks on a background with the CIELCh color 50, 90.463, 31.850.

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, 90.463, 31.850

Protanopia

51, 31.277, 95.882

Deuteranopia

51, 52.563, 83.388



Tritanopia
50, 97.992, 40.797

Trichromacy



Original Color
50, 90.463, 31.850

Protanomaly
45, 47.585, 38.669

Deuteranomaly
46, 62.950, 47.642

Tritanomaly
50, 95.903, 38.400

Monochromacy



Original Color
50, 90.463, 31.850

Achromatopsia
32, 0.005, 296.813

Achromatomaly
33, 39.828, 14.630

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 50, 90.463, 31.850 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(239, 0, 43)` looks like.

```
.text, #text, p{  
    color:rgb(239, 0, 43)  
}
```

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(239, 0, 43) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(239, 0, 43) }
```

Border

The CSS property to change the border of an element to CIELCh 50, 90.463, 31.850 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(239, 0, 43) }
```

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

```
.border{ border-color:rgb(239, 0, 43) }
```

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

Here you see how a box with a 4 pixel rgb(239, 0, 43) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(239, 0, 43); -webkit-box-  
shadow:4px 4px 4px 4px rgb(239, 0, 43);  
box-shadow:4px 4px 4px 4px rgb(239, 0, 43)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 50, 90.463, 31.850 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(239, 0, 43) }
```

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

```
.background{ background-color: rgb(239, 0,  
43) }
```

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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