

Converting Colors

CIELCh(49, 88.943, 35.510)

Have a look what the booklet for
CIELCh(49, 88.943, 35.510) contains.

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Color

CIELCh(49, 88.741, 35.500)

Conversions

Conversions Part 1

Format	Color
Hex	E61720
RGB	230, 23, 32
RGB Percent	90%, 9%, 13%
CMY	0.0972, 0.9080, 0.8739
CMYK	0.00, 0.90, 0.86, 0.10
HSL	357°, 82%, 50%
HSV	357°, 90%, 90%
XYZ	33.2814, 17.5941, 3.0195
YIQ	85.9190, 120.4830, 46.6830

Conversions

Conversions Part 2

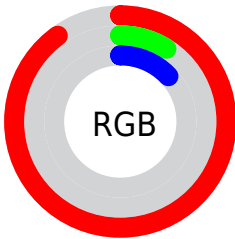
Format	Color
R_{YB}	230, 23, 32
Decimal	15079200
CIE Lab	49.00, 72.25, 51.53
CIE LCh	49, 88.741, 35.500
Yxy	17.5941, 0.6175, 0.3265
Android (android.graphics.Color)	4293269280 (0xFFE61720)
YUV	85.9190, -26.5821, 126.3590
Hunter-Lab	41.9453, 68.2264, 25.0937

Details

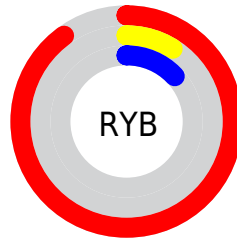
The CIELCh color **49, 88.741, 35.500** is a dark color, and the websafe version is hex **FF3333**. The color can be described as dark washed red. A complement of this color would be **83, 47.150, 190.632**, and the grayscale version is **37, 0.005, 296.813**.

A 20% lighter version of the original color is **62, 72.428, 35.344**, and **34, 75.287, 39.810** is the 20% darker color. If you saturate the color by 10%, you get **48, 95.032, 38.675**, and if you desaturate by 10%, it is **51, 79.950, 31.489**.

Distribution



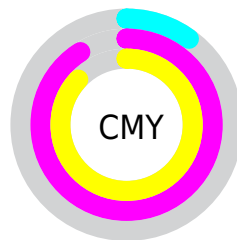
- Red (90%)
- Green (9%)
- Blue (13%)



- Red (90%)
- Yellow (9%)
- Blue (13%)



- Cyan (0%)
- Magenta (90%)
- Yellow (86%)
- Black (10%)









- Cyan (10%)
- Magenta (91%)
- Yellow (87%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 49, 88.741, 35.500 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, 88.741, 35.500 by changing the saturation by 10% instead.

 49, 88.741, 35.500	 49, 88.741, 35.500
 100, 88.741, 35.500	 39, 88.741, 35.500
 69, 88.741, 35.500	 29, 88.741, 35.500
 79, 88.741, 35.500	 19, 88.741, 35.500
 89, 88.741, 35.500	 9, 88.741, 35.500
 99, 88.741, 35.500	 0, 88.741, 35.500

 49, 88.741, 35.500	 49, 88.741, 35.500
 48, 95.032, 38.675	 51, 79.950, 31.489
 48, 95.120, 38.711	 54, 69.910, 27.731

■ 58, 59.241, 24.597

■ 62, 48.361, 22.115

■ 67, 37.622, 20.187

■ 73, 27.284, 18.690

■ 79, 17.507, 17.514

■ 85, 8.360, 16.559

■ 91, 0.150, 199.952

Harmonies

Complementary

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



49, 88.741, 35.500



83, 47.150, 190.632

Rectangle

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



49, 88.741, 35.500



49, 88.741, 85.500



49, 88.741, 215.500



49, 88.741, 265.500

Sweetspot

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



49, 88.738, 35.502



82, 26.599, 18.349



54, 104.921, 326.333



41, 18.135, 18.792



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, 88.738, 35.502



53, 102.970, 38.862



61, 75.169, 58.641



45, 4.818, 16.526



37, 78.165, 38.255



6, 26.969, 20.023

Inverse Universe

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



49, 88.738, 35.502



53, 102.970, 38.862



56, 55.385, 274.542



45, 4.818, 16.526



37, 78.165, 38.255



6, 26.969, 20.023

Previews

White Background



This preview shows how the CIELCh color 49, 88.741, 35.500 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, 88.741, 35.500 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, 88.741, 35.500

Background



This preview shows how black text looks on a background with the CIELCh color 49, 88.741, 35.500.



This preview shows how white text looks on a background with the CIELCh color 49, 88.741, 35.500.

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, 88.741, 35.500

Protanopia

49, 37.075, 96.435

Tritanopia

49, 91.763, 38.730

Trichromacy



Original Color
49, 88.741, 35.500

Protanomaly
45, 48.379, 50.560

Tritanomaly
49, 90.764, 37.711

Monochromacy



Original Color
49, 88.741, 35.500

Achromatopsia
37, 0.005, 296.813

Achromatomaly
37, 34.997, 22.838

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 49, 88.741, 35.500 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(230, 23, 32)` looks like.

```
.text, #text, p{  
  color:rgb(230, 23, 32)  
}
```

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(230, 23, 32) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(230, 23, 32) }
```

Border

The CSS property to change the border of an element to CIELCh 49, 88.741, 35.500 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(230, 23, 32) }
```

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

```
.border{ border-color:rgb(230, 23, 32) }
```

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

Here you see how a box with a 4 pixel `rgb(230, 23, 32)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(230, 23, 32); -webkit-box-  
shadow:4px 4px 4px 4px rgb(230, 23, 32);  
box-shadow:4px 4px 4px 4px rgb(230, 23,  
32) }
```

Background

The CSS property to change the background color of an element to CIELCh 49, 88.741, 35.500 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(230, 23, 32) }
```

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

```
.background{ background-color: rgb(230, 23,  
32) }
```

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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