

Converting Colors

CIELCh(49, 88.250, 30.410)

Have a look what the booklet for
CIELCh(49, 88.250, 30.410) contains.

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Color

CIELCh(49, 87.977, 30.595)

Conversions

Conversions Part 1

Format	Color
Hex	EA002E
RGB	234, 0, 46
RGB Percent	92%, 0%, 18%
CMY	0.0839, 1.0000, 0.8206
CMYK	0.00, 1.00, 0.80, 0.08
HSL	348°, 100%, 46%
HSV	348°, 100%, 92%
XYZ	34.2783, 17.5941, 4.1472
YIQ	75.2100, 124.6980, 63.9140

Conversions

Conversions Part 2

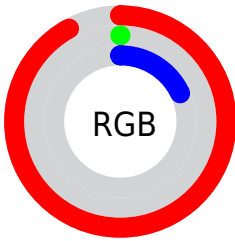
Format	Color
RYB	234, 0, 46
Decimal	15335470
CIELab	49.00, 75.73, 44.78
CIElCh	49, 87.977, 30.595
Yxy	17.5941, 0.6119, 0.3141
Android (android.graphics.Color)	4293525550 (0xFFEA002E)
YUV	75.2100, -14.4005, 139.2588
Hunter-Lab	41.9453, 72.4685, 23.4996

Details

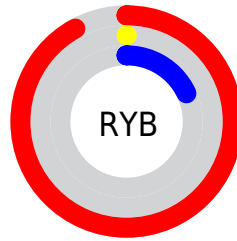
The CIELCh color **49, 87.977, 30.595** is a dark color, and the websafe version is hex **FF0033**. The color can be described as dark washed red. A complement of this color would be **83, 58.090, 170.975**, and the grayscale version is **32, 0.005, 296.813**.

A 20% lighter version of the original color is **62, 70.085, 28.681**, and **35, 76.100, 39.619** is the 20% darker color. If you saturate the color by 10%, you get **49, 87.908, 30.647**, and if you desaturate by 10%, it is **50, 81.937, 25.363**.

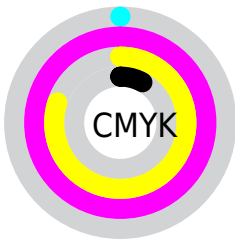
Distribution



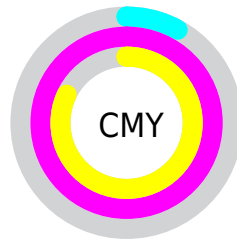
- Red (92%)
- Green (0%)
- Blue (18%)



- Red (92%)
- Yellow (0%)
- Blue (18%)



- Cyan (0%)
- Magenta (100%)
- Yellow (80%)
- Black (8%)



- Cyan (8%)
- Magenta (100%)
- Yellow (82%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 49, 87.977, 30.595 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, 87.977, 30.595 by changing the saturation by 10% instead.

 49, 87.977, 30.595

 49, 87.977, 30.595

 100, 87.977,
30.595

 39, 87.977, 30.595

 69, 87.977, 30.595

 29, 87.977, 30.595

 79, 87.977, 30.595

 19, 87.977, 30.595

 89, 87.977, 30.595

 9, 87.977, 30.595

 99, 87.977, 30.595

 0, 87.977, 30.595

 49, 87.977, 30.595

 49, 87.977, 30.595

 49, 87.908, 30.647

 50, 81.937, 25.363

 52, 75.054, 20.471

■ 55, 67.005, 16.402

■ 59, 57.921, 13.155

■ 63, 48.140, 10.595

■ 69, 38.061, 8.567

■ 74, 28.020, 6.935

■ 80, 18.252, 5.594

■ 86, 8.892, 4.452

Harmonies

Complementary

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



49, 87.977, 30.595



83, 58.090, 170.975

Rectangle

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



49, 87.977, 30.595



49, 87.977, 80.595



49, 87.977, 210.595



49, 87.977, 260.595

Sweetspot

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



49, 87.908, 30.647



80, 30.092, 6.956



48, 110.265, 320.600



40, 20.706, 7.609



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, 87.908, 30.647



53, 94.175, 30.925



54, 88.978, 46.934



46, 5.062, 4.394



38, 72.004, 29.681



7, 27.915, 14.626

Inverse Universe

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



49, 87.908, 30.647



53, 94.175, 30.925



64, 46.158, 256.950



46, 5.062, 4.394



38, 72.004, 29.681



7, 27.915, 14.626

Previews

White Background



This preview shows how the CIELCh color 49, 87.977, 30.595 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 49, 87.977, 30.595 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, 87.977, 30.595

Background



This preview shows how black text looks on a background with the CIELCh color 49, 87.977, 30.595.



This preview shows how white text looks on a background with the CIELCh color 49, 87.977, 30.595.

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, 87.977, 30.595

Protanopia

50, 27.519, 95.945

Deuteranopia

50, 49.216, 82.293



Tritanopia
49, 96.374, 40.836

Trichromacy



Original Color
49, 87.977, 30.595

Protanomaly
44, 45.165, 35.222

Deuteranomaly
45, 60.549, 45.566

Tritanomaly
49, 94.033, 38.165

Monochromacy



Original Color
49, 87.977, 30.595

Achromatopsia
32, 0.005, 296.813

Achromatomaly
33, 39.002, 14.115

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 49, 87.977, 30.595 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(234, 0, 46)` looks like.

```
.text, #text, p{  
    color:rgb(234, 0, 46)  
}
```

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(234, 0, 46) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(234, 0, 46) }
```

Border

The CSS property to change the border of an element to CIELCh 49, 87.977, 30.595 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(234, 0, 46) }
```

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

```
.border{ border-color:rgb(234, 0, 46) }
```

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

Here you see how a box with a 4 pixel `rgb(234, 0, 46)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(234, 0, 46); -webkit-box-  
shadow:4px 4px 4px 4px rgb(234, 0, 46);  
box-shadow:4px 4px 4px 4px rgb(234, 0, 46)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 49, 87.977, 30.595 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(234, 0, 46) }
```

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

```
.background{ background-color: rgb(234, 0,  
46) }
```

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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