

Converting Colors

CIELCh(40, 100.354, 18.935)

Have a look what the booklet for
CIELCh(40, 100.354, 18.935)
contains.

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Color

CIELCh(47, 83.771, 28.771)

Conversions

Conversions Part 1

Format	Color
Hex	E00031
RGB	224, 0, 49
RGB Percent	88%, 0%, 19%
CMY	0.1224, 1.0000, 0.8084
CMYK	0.00, 1.00, 0.78, 0.12
HSL	347°, 100%, 44%
HSV	347°, 100%, 88%
XYZ	31.2187, 16.0195, 4.3366
YIQ	72.5620, 117.7750, 62.7270

Conversions

Conversions Part 2

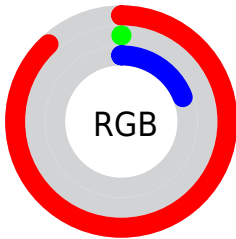
Format	Color
R_{YB}	224, 0, 49
Decimal	14680113
CIE Lab	47.00, 73.43, 40.32
CIE LCh	47, 83.771, 28.771
Yxy	16.0195, 0.6053, 0.3106
Android (android.graphics.Color)	4292870193 (0xFFE00031)
YUV	72.5620, -11.6161, 132.8111
Hunter-Lab	40.0243, 69.1863, 21.5930

Details

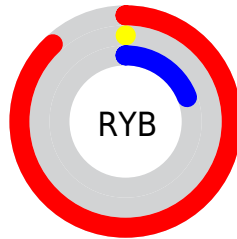
The CIELCh color **47, 83.771, 28.771** is a dark color, and the websafe version is hex **CC0033**. The color can be described as dark washed red. A complement of this color would be **80, 57.867, 168.768**, and the grayscale version is **31, 0.005, 296.813**.

A 20% lighter version of the original color is **61, 70.294, 26.560**, and **33, 71.908, 38.413** is the 20% darker color. If you saturate the color by 10%, you get **47, 83.732, 28.801**, and if you desaturate by 10%, it is **48, 78.271, 23.440**.

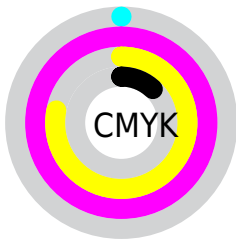
Distribution



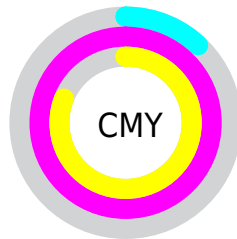
- Red (88%)
- Green (0%)
- Blue (19%)



- Red (88%)
- Yellow (0%)
- Blue (19%)



- Cyan (0%)
- Magenta (100%)
- Yellow (78%)
- Black (12%)



- Cyan (12%)
- Magenta (100%)
- Yellow (81%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 47, 83.771, 28.771 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 47, 83.771, 28.771 by changing the saturation by 10% instead.

 47, 83.771, 28.771

 47, 83.771, 28.771

 100, 83.771,
28.771

 37, 83.771, 28.771

 67, 83.771, 28.771

 27, 83.771, 28.771

 77, 83.771, 28.771

 17, 83.771, 28.771

 87, 83.771, 28.771

 7, 83.771, 28.771

 97, 83.771, 28.771

 0, 83.771, 28.771

 47, 83.771, 28.771

 47, 83.771, 28.771

 47, 83.732, 28.801

 48, 78.271, 23.440

 50, 71.950, 18.570

■ 53, 64.438, 14.559

■ 56, 55.852, 11.369

■ 61, 46.530, 8.852

■ 66, 36.864, 6.852

■ 71, 27.190, 5.234

■ 77, 17.741, 3.898

■ 83, 8.657, 2.753

Harmonies

Complementary

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



47, 83.771, 28.771



80, 57.867, 168.768

Rectangle

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



47, 83.771, 28.771



47, 83.771, 78.771



47, 83.771, 208.771



47, 83.771, 258.771

Sweetspot

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



47, 83.732, 28.801



80, 30.240, 5.266



44, 107.302, 319.454



40, 20.792, 5.916



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



47, 83.732, 28.801



54, 92.760, 29.239



51, 87.566, 45.549



44, 4.919, 2.693



37, 69.406, 27.828



6, 25.282, 11.686

Inverse Universe

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



47, 83.732, 28.801



54, 92.760, 29.239



63, 42.472, 250.313



44, 4.919, 2.693



37, 69.406, 27.828



6, 25.282, 11.686

Previews

White Background



This preview shows how the CIELCh color 47, 83.771, 28.771 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 47, 83.771, 28.771 looks on a black 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

If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 47, 83.771, 28.771

Background



This preview shows how black text looks on a background with the CIELCh color 47, 83.771, 28.771.



This preview shows how white text looks on a background with the CIELCh color 47, 83.771, 28.771.

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

47, 83.771, 28.771

Protanopia

48, 22.619, 95.464

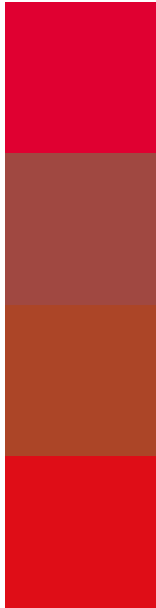
Deuteranopia

48, 44.758, 82.432



Tritanopia
47, 91.678, 39.815

Trichromacy



Original Color
47, 83.771, 28.771

Protanomaly
42, 42.110, 31.347

Deuteranomaly
43, 55.948, 43.589

Tritanomaly
47, 89.304, 36.791

Monochromacy



Original Color
47, 83.771, 28.771

Achromatopsia
31, 0.005, 296.813

Achromatomaly
31, 37.375, 11.362

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 47, 83.771, 28.771 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(224, 0, 49)` looks like.

```
.text, #text, p{  
    color:rgb(224, 0, 49)  
}
```

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(224, 0, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(224, 0, 49) }
```

Border

The CSS property to change the border of an element to CIELCh 47, 83.771, 28.771 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(224, 0, 49) }
```

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

```
.border{ border-color:rgb(224, 0, 49) }
```

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

Here you see how a box with a 4 pixel `rgb(224, 0, 49)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(224, 0, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(224, 0, 49);  
box-shadow:4px 4px 4px 4px rgb(224, 0, 49)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 47, 83.771, 28.771 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(224, 0, 49) }
```

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

```
.background{ background-color: rgb(224, 0,  
49) }
```

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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