

Converting Colors

CIELCh(48, 85.175, 28.573)

Have a look what the booklet for
CIELCh(48, 85.175, 28.573) contains.

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Color

CIELCh(48, 85.012, 28.540)

Conversions

Conversions Part 1

Format	Color
Hex	E50033
RGB	229, 0, 51
RGB Percent	90%, 0%, 20%
CMY	0.1036, 1.0000, 0.8011
CMYK	0.00, 1.00, 0.78, 0.10
HSL	347°, 100%, 45%
HSV	347°, 100%, 90%
XYZ	32.7533, 16.7945, 4.6142
YIQ	74.2850, 120.1130, 64.4090

Conversions

Conversions Part 2

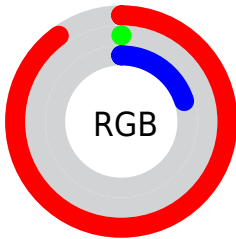
Format	Color
R_YB	229, 0, 51
Decimal	15007795
CIE Lab	48.00, 74.68, 40.62
CIE LCh	48, 85.012, 28.540
Yxy	16.7945, 0.6047, 0.3101
Android (android.graphics.Color)	4293197875 (0xFFE50033)
YUV	74.2850, -11.4795, 135.6851
Hunter-Lab	40.9810, 70.9458, 22.0110

Details

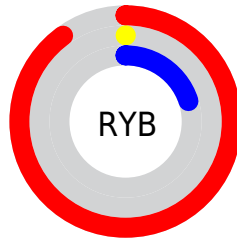
The CIELCh color **48, 85.012, 28.540** is a dark color, and the websafe version is hex **CC0033**. The color can be described as dark washed red. A complement of this color would be **81, 59.089, 168.398**, and the grayscale version is **32, 0.005, 296.813**.

A 20% lighter version of the original color is **61, 69.363, 26.284**, and **34, 72.980, 37.787** is the 20% darker color. If you saturate the color by 10%, you get **48, 84.934, 28.599**, and if you desaturate by 10%, it is **49, 79.453, 23.209**.

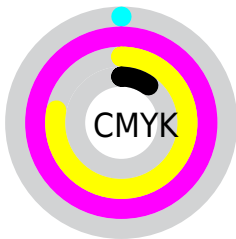
Distribution



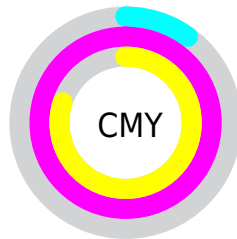
- Red (90%)
- Green (0%)
- Blue (20%)



- Red (90%)
- Yellow (0%)
- Blue (20%)



- Cyan (0%)
- Magenta (100%)
- Yellow (78%)
- Black (10%)



- Cyan (10%)
- Magenta (100%)
- Yellow (80%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 48, 85.012, 28.540 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 48, 85.012, 28.540 by changing the saturation by 10% instead.

 48, 85.012, 28.540

 48, 85.012, 28.540

 100, 85.012,
28.540

 38, 85.012, 28.540

 68, 85.012, 28.540

 28, 85.012, 28.540

 78, 85.012, 28.540

 18, 85.012, 28.540

 88, 85.012, 28.540

 8, 85.012, 28.540

 98, 85.012, 28.540

 0, 85.012, 28.540

 48, 85.012, 28.540

 48, 85.012, 28.540

 48, 84.934, 28.599

 49, 79.453, 23.209

 51, 73.092, 18.326

■ 54, 65.505, 14.308

■ 58, 56.809, 11.115

■ 62, 47.349, 8.596

■ 67, 37.527, 6.594

■ 73, 27.686, 4.975

■ 79, 18.069, 3.637

■ 85, 8.819, 2.490

Harmonies

Complementary

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



48, 85.012, 28.540



81, 59.089, 168.398

Rectangle

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



48, 85.012, 28.540



48, 85.012, 78.540



48, 85.012, 208.540



48, 85.012, 258.540

Sweetspot

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



48, 84.934, 28.599



80, 30.266, 5.002



45, 109.031, 319.444



40, 20.807, 5.651



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



48, 84.934, 28.599



54, 92.542, 28.964



52, 89.013, 45.512



45, 5.018, 2.431



37, 70.030, 27.613



7, 26.651, 12.452

Inverse Universe

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



48, 84.934, 28.599



54, 92.542, 28.964



65, 43.174, 250.380



45, 5.018, 2.431



37, 70.030, 27.613



7, 26.651, 12.452

Previews

White Background



This preview shows how the CIELCh color 48, 85.012, 28.540 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 48, 85.012, 28.540 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 48, 85.012, 28.540

Background



This preview shows how black text looks on a background with the CIELCh color 48, 85.012, 28.540.



This preview shows how white text looks on a background with the CIELCh color 48, 85.012, 28.540.

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

48, 85.012, 28.540

Protanopia

49, 23.079, 95.745

Deuteranopia

49, 44.937, 82.021



Tritanopia
48, 93.192, 39.693

Trichromacy



Original Color
48, 85.012, 28.540

Protanomaly
43, 42.383, 31.226

Deuteranomaly
44, 56.369, 42.956

Tritanomaly
48, 90.791, 36.716

Monochromacy



Original Color
48, 85.012, 28.540

Achromatopsia
31, 0.005, 296.813

Achromatomaly
32, 38.120, 10.901

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 48, 85.012, 28.540 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(229, 0, 51)` looks like.

```
.text, #text, p{  
    color:rgb(229, 0, 51)  
}
```

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(229, 0, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(229, 0, 51) }
```

Border

The CSS property to change the border of an element to CIELCh 48, 85.012, 28.540 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(229, 0, 51) }
```

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

```
.border{ border-color:rgb(229, 0, 51) }
```

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

Here you see how a box with a 4 pixel rgb(229, 0, 51) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(229, 0, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(229, 0, 51);  
box-shadow:4px 4px 4px 4px rgb(229, 0, 51)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 48, 85.012, 28.540 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(229, 0, 51) }
```

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

```
.background{ background-color: rgb(229, 0,  
51) }
```

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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