

Converting Colors

CIELCh(45, 90.980, 38.777)

Have a look what the booklet for
CIELCh(45, 90.980, 38.777) contains.

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Color

CIELCh(45, 90.914, 38.919)

Conversions

Conversions Part 1

Format	Color
Hex	D80007
RGB	216, 0, 7
RGB Percent	85%, 0%, 3%
CMY	0.1543, 1.0000, 0.9737
CMYK	0.00, 1.00, 0.97, 0.15
HSL	358°, 100%, 42%
HSV	358°, 100%, 85%
XYZ	28.2463, 14.5417, 1.5107
YIQ	65.3820, 126.4890, 47.9690

Conversions

Conversions Part 2

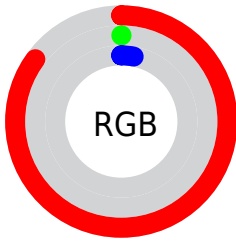
Format	Color
RYB	216, 0, 7
Decimal	14155783
CIELab	45.00, 70.73, 57.11
CIELCh	45, 90.914, 38.919
Yxy	14.5417, 0.6376, 0.3283
Android (android.graphics.Color)	4292345863 (0xFFD80007)
YUV	65.3820, -28.7823, 132.0920
Hunter-Lab	38.1336, 65.4846, 24.3447

Details

The CIELCh color **45, 90.914, 38.919** is a dark color, and the websafe version is hex **CC0000**. The color can be described as dark washed red. A complement of this color would be **78, 45.270, 191.677**, and the grayscale version is **28, 0.004, 296.813**.

A 20% lighter version of the original color is **60, 80.002, 39.269**, and **31, 69.814, 39.432** is the 20% darker color. If you saturate the color by 10%, you get **45, 90.856, 38.959**, and if you desaturate by 10%, it is **46, 84.913, 36.006**.

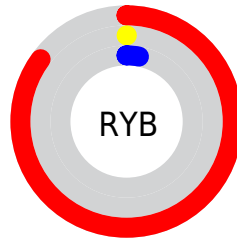
Distribution



Red (85%)

Green (0%)

Blue (3%)



Red (85%)

Yellow (0%)

Blue (3%)

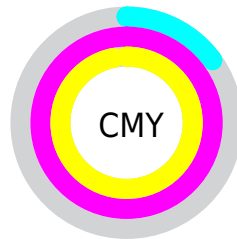


Cyan (0%)

Magenta (100%)

Yellow (97%)

Black (15%)



Cyan (15%)

Magenta (100%)

Yellow (97%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 90.914, 38.919 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 45, 90.914, 38.919 by changing the saturation by 10% instead.

 45, 90.914, 38.919

 45, 90.914, 38.919

 100, 90.914,
38.919

 35, 90.914, 38.919

 65, 90.914, 38.919

 25, 90.914, 38.919

 75, 90.914, 38.919

 15, 90.914, 38.919

 85, 90.914, 38.919

 5, 90.914, 38.919

 95, 90.914, 38.919

 0, 90.914, 38.919

 45, 90.914, 38.919

 45, 90.914, 38.919

 45, 90.856, 38.959

 46, 84.913, 36.006

 48, 76.498, 32.132

■ 50, 66.839, 28.450

■ 54, 56.595, 25.364

■ 58, 46.179, 22.916

■ 63, 35.924, 21.015

■ 69, 26.072, 19.543

■ 74, 16.770, 18.392

■ 80, 8.078, 17.461

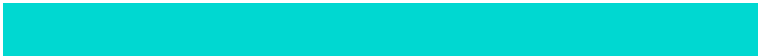
Harmonies

Complementary

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



45, 90.914, 38.919



78, 45.270, 191.677

Rectangle

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



45, 90.914, 38.919



45, 90.914, 88.919



45, 90.914, 218.919



45, 90.914, 268.919

Sweetspot

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



45, 90.856, 38.959



80, 29.898, 19.580



50, 102.002, 326.907



40, 20.694, 20.165



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



45, 90.856, 38.959



53, 103.372, 39.153



56, 76.426, 57.511



42, 4.549, 17.411



35, 76.035, 38.623



5, 21.977, 18.380

Inverse Universe

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



45, 90.856, 38.959



53, 103.372, 39.153



49, 60.071, 281.118



42, 4.549, 17.411



35, 76.035, 38.623



5, 21.977, 18.380

Previews

White Background



This preview shows how the CIELCh color 45, 90.914, 38.919 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 45, 90.914, 38.919 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 45, 90.914, 38.919

Background



This preview shows how black text looks on a background with the CIELCh color 45, 90.914, 38.919.



This preview shows how white text looks on a background with the CIELCh color 45, 90.914, 38.919.

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

45, 90.914, 38.919

Protanopia

46, 44.096, 95.679

Deuteranopia

46, 52.957, 84.122

Trichromacy



Original Color
45, 90.914, 38.919

Protanomaly
40, 55.061, 52.341

Deuteranomaly
41, 64.336, 52.939

Monochromacy



Original Color
45, 90.914, 38.919

Achromatopsia
28, 0.004, 296.813

Achromatomaly
29, 38.538, 25.674

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 90.914, 38.919 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(216, 0, 7)` looks like.

```
.text, #text, p{  
    color:rgb(216, 0, 7)  
}
```

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(216, 0, 7) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(216, 0, 7) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 90.914, 38.919 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(216, 0, 7) }
```

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

```
.border{ border-color:rgb(216, 0, 7) }
```

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

Here you see how a box with a 4 pixel rgb(216, 0, 7) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(216, 0, 7); -webkit-box-shadow:4px  
4px 4px 4px rgb(216, 0, 7); box-shadow:4px  
4px 4px 4px rgb(216, 0, 7) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 90.914, 38.919 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(216, 0, 7) }
```

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

```
.background{ background-color: rgb(216, 0,  
7) }
```

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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