

Converting Colors

CIELCh(45, 89.875, 38.310)

Have a look what the booklet for
CIELCh(45, 89.875, 38.310) contains.

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Color

CIELCh(45, 89.816, 38.353)

Conversions

Conversions Part 1

Format	Color
Hex	D7020B
RGB	215, 2, 11
RGB Percent	84%, 1%, 4%
CMY	0.1560, 0.9933, 0.9561
CMYK	0.00, 0.99, 0.95, 0.16
HSL	357°, 98%, 43%
HSV	357°, 99%, 84%
XYZ	28.1701, 14.5417, 1.6449
YIQ	66.7130, 124.0590, 47.9550

Conversions

Conversions Part 2

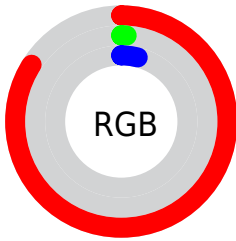
Format	Color
RYB	215, 2, 11
Decimal	14090763
CIELab	45.00, 70.43, 55.73
CIElCh	45, 89.816, 38.353
Yxy	14.5417, 0.6351, 0.3278
Android (android.graphics.Color)	4292280843 (0xFFD7020B)
YUV	66.7130, -27.4665, 130.0477
Hunter-Lab	38.1336, 65.1279, 24.1361

Details

The CIELCh color **45, 89.816, 38.353** 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, 45.694, 189.770**, and the grayscale version is **28, 0.004, 296.813**.

A 20% lighter version of the original color is **60, 79.432, 38.683**, and **31, 69.814, 39.432** is the 20% darker color. If you saturate the color by 10%, you get **45, 90.199, 38.526**, and if you desaturate by 10%, it is **46, 83.508, 34.998**.

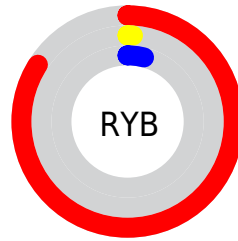
Distribution



Red (84%)

Green (1%)

Blue (4%)



Red (84%)

Yellow (1%)

Blue (4%)

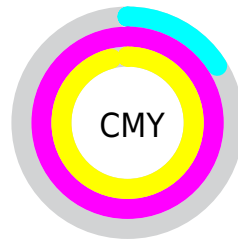


Cyan (0%)

Magenta (99%)

Yellow (95%)

Black (16%)



Cyan (16%)

Magenta (99%)

Yellow (96%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 89.816, 38.353 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, 89.816, 38.353 by changing the saturation by 10% instead.

 45, 89.816, 38.353

 45, 89.816, 38.353

 100, 89.816,
38.353

 35, 89.816, 38.353

 65, 89.816, 38.353

 25, 89.816, 38.353

 75, 89.816, 38.353

 15, 89.816, 38.353

 85, 89.816, 38.353

 5, 89.816, 38.353

 95, 89.816, 38.353

 0, 89.816, 38.353

 45, 89.816, 38.353

 45, 89.816, 38.353

 45, 90.199, 38.526

 46, 83.508, 34.998

 48, 75.054, 30.969

■ 51, 65.504, 27.263

■ 54, 55.397, 24.194

■ 59, 45.116, 21.767

■ 64, 34.984, 19.880

■ 69, 25.241, 18.411

■ 75, 16.029, 17.255

■ 81, 7.410, 16.308

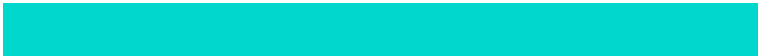
Harmonies

Complementary

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



45, 89.816, 38.353



78, 45.694, 189.770

Rectangle

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



45, 89.816, 38.353



45, 89.816, 88.353



45, 89.816, 218.353



45, 89.816, 268.353

Sweetspot

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



45, 89.813, 38.355



80, 29.855, 18.553



49, 101.800, 326.259



40, 20.654, 19.150



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, 89.813, 38.355



53, 102.880, 38.796



55, 76.497, 56.425



42, 4.552, 16.327



35, 75.485, 38.065



5, 21.971, 17.783

Inverse Universe

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



45, 89.813, 38.355



53, 102.880, 38.796



50, 57.508, 278.872



42, 4.552, 16.327



35, 75.485, 38.065



5, 21.971, 17.783

Previews

White Background



This preview shows how the CIELCh color 45, 89.816, 38.353 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, 89.816, 38.353 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, 89.816, 38.353

Background



This preview shows how black text looks on a background with the CIELCh color 45, 89.816, 38.353.



This preview shows how white text looks on a background with the CIELCh color 45, 89.816, 38.353.

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, 89.757, 38.396

Protanopia

46, 43.288, 95.648

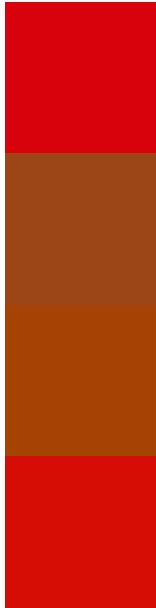
Deuteranopia

46, 52.957, 84.122



Tritanopia
45, 90.242, 40.945

Trichromacy



Original Color
45, 89.757, 38.396

Protanomaly
40, 53.932, 51.998

Deuteranomaly
41, 63.479, 52.762

Tritanomaly
45, 90.026, 39.917

Monochromacy



Original Color
45, 89.757, 38.396

Achromatopsia
28, 0.004, 296.813

Achromatomaly
29, 37.727, 24.364

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 89.816, 38.353 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(215, 2, 11)` looks like.

```
.text, #text, p{  
    color:rgb(215, 2, 11)  
}
```

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(215, 2, 11) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(215, 2, 11) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 89.816, 38.353 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(215, 2, 11) }
```

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

```
.border{ border-color:rgb(215, 2, 11) }
```

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

Here you see how a box with a 4 pixel rgb(215, 2, 11) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(215, 2, 11); -webkit-box-  
shadow:4px 4px 4px 4px rgb(215, 2, 11);  
box-shadow:4px 4px 4px 4px rgb(215, 2, 11)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 45, 89.816, 38.353 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(215, 2, 11) }
```

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

```
.background{ background-color: rgb(215, 2,  
11) }
```

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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