

Converting Colors

CIELCh(45, 90.722, 38.562)

Have a look what the booklet for
CIELCh(45, 90.722, 38.562) contains.

CIELCh(45, 90.558, 38.622)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	20
<i>Color Blindness Simulation</i>	23
<i>CSS Examples</i>	26

Color

CIELCh(45, 90.558, 38.622)

Conversions

Conversions Part 1

Format	Color
Hex	D80009
RGB	216, 0, 9
RGB Percent	85%, 0%, 4%
CMY	0.1543, 1.0000, 0.9660
CMYK	0.00, 1.00, 0.96, 0.15
HSL	358°, 100%, 42%
HSV	358°, 100%, 85%
XYZ	28.2506, 14.5417, 1.5670
YIQ	65.6100, 125.8470, 48.5910

Conversions

Conversions Part 2

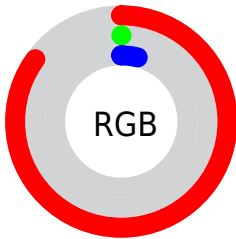
Format	Color
RYB	216, 0, 9
Decimal	14155785
CIELab	45.00, 70.75, 56.52
CIElCh	45, 90.558, 38.622
Yxy	14.5417, 0.6369, 0.3278
Android (android.graphics.Color)	4292345865 (0xFFD80009)
YUV	65.6100, -27.9087, 131.8920
Hunter-Lab	38.1336, 65.5048, 24.2572

Details

The CIELCh color **45, 90.558, 38.622** 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, 45.639, 190.340**, and the grayscale version is **28, 0.004, 296.813**.

A 20% lighter version of the original color is **60, 79.717, 38.978**, and **31, 69.814, 39.432** is the 20% darker color. If you saturate the color by 10%, you get **45, 90.497, 38.665**, and if you desaturate by 10%, it is **46, 84.449, 35.538**.

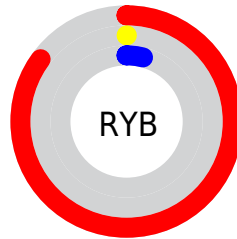
Distribution



Red (85%)

Green (0%)

Blue (4%)



Red (85%)

Yellow (0%)

Blue (4%)

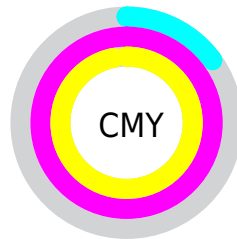


Cyan (0%)

Magenta (100%)

Yellow (96%)

Black (15%)



Cyan (15%)

Magenta (100%)

Yellow (97%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 90.558, 38.622 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, 90.558, 38.622 by changing the saturation by 10% instead.

 45, 90.558, 38.622

 45, 90.558, 38.622

 100, 90.558,
38.622

 35, 90.558, 38.622

 65, 90.558, 38.622

 25, 90.558, 38.622

 75, 90.558, 38.622

 15, 90.558, 38.622

 85, 90.558, 38.622

 5, 90.558, 38.622

 95, 90.558, 38.622

 0, 90.558, 38.622

 45, 90.558, 38.622

 45, 90.558, 38.622

 45, 90.497, 38.665

 46, 84.449, 35.538

 48, 76.081, 31.559

■ 50, 66.529, 27.830

■ 54, 56.388, 24.718

■ 58, 46.054, 22.251

■ 63, 35.858, 20.333

■ 69, 26.044, 18.843

■ 74, 16.763, 17.674

■ 80, 8.080, 16.724

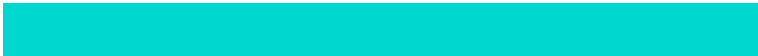
Harmonies

Complementary

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



45, 90.558, 38.622



78, 45.639, 190.340

Rectangle

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



45, 90.558, 38.622



45, 90.558, 88.622



45, 90.558, 218.622



45, 90.558, 268.622

Sweetspot

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



45, 90.497, 38.665



80, 29.867, 18.881



49, 102.103, 326.252



40, 20.666, 19.474



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, 90.497, 38.665



53, 103.039, 38.912



55, 77.053, 56.245



42, 4.551, 16.672



35, 75.657, 38.242



5, 21.972, 17.973

Inverse Universe

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



45, 90.497, 38.665



53, 103.039, 38.912



50, 58.037, 279.238



42, 4.551, 16.672



35, 75.657, 38.242



5, 21.972, 17.973

Previews

White Background



This preview shows how the CIELCh color 45, 90.558, 38.622 looks on a white background.

Color Contrast Check

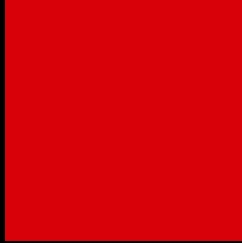
Large Text (above 18pt) WCAG AA ✓ Pass

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, 90.558, 38.622 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, 90.558, 38.622

Background



This preview shows how black text looks on a background with the CIELCh color 45, 90.558, 38.622.



This preview shows how white text looks on a background with the CIELCh color 45, 90.558, 38.622.

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, 90.558, 38.622

Protanopia

46, 43.696, 95.664

Deuteranopia

46, 52.957, 84.122



Tritanopia
45, 90.242, 40.945

Trichromacy



Original Color
45, 90.558, 38.622

Protanomaly
40, 54.750, 52.053

Deuteranomaly
41, 64.099, 52.763

Tritanomaly
45, 90.549, 40.071

Monochromacy



Original Color
45, 90.558, 38.622

Achromatopsia
28, 0.004, 296.813

Achromatomaly
29, 38.339, 24.779

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 90.558, 38.622 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, 9)` looks like.

```
.text, #text, p{  
    color:rgb(216, 0, 9)  
}
```

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, 9) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(216, 0, 9) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 90.558, 38.622 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, 9) }
```

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

```
.border{ border-color:rgb(216, 0, 9) }
```

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, 9)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(216, 0, 9); -webkit-box-shadow:4px  
4px 4px 4px rgb(216, 0, 9); box-shadow:4px  
4px 4px 4px rgb(216, 0, 9) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 90.558, 38.622 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, 9) }
```

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

```
.background{ background-color: rgb(216, 0,  
9) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor