

Converting Colors

CIELCh(45, 67.449, 38.730)

Have a look what the booklet for
CIELCh(45, 67.449, 38.730) contains.

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Color

CIELCh(45, 67.539, 38.723)

Conversions

Conversions Part 1

Format	Color
Hex	C13A26
RGB	193, 58, 38
RGB Percent	76%, 23%, 15%
CMY	0.2425, 0.7719, 0.8505
CMYK	0.00, 0.70, 0.80, 0.24
HSL	8°, 67%, 45%
HSV	8°, 80%, 76%
XYZ	23.9076, 14.5417, 3.3908
YIQ	96.0850, 86.8800, 22.4000

Conversions

Conversions Part 2

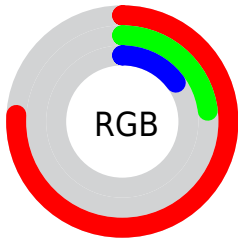
Format	Color
RYB	193, 61, 38
Decimal	12663334
CIELab	45.00, 52.69, 42.25
CIElCh	45, 67.539, 38.723
Yxy	14.5417, 0.5714, 0.3476
Android (android.graphics.Color)	4290853414 (0xFFC13A26)
YUV	96.0850, -28.6359, 84.9945
Hunter-Lab	38.1336, 45.1758, 21.4216

Details

The CIELCh color **45, 67.539, 38.723** is a dark color, and the websafe version is hex **CC3333**. The color can be described as dark muted red. A complement of this color would be **65, 34.163, 216.221**, and the grayscale version is **41, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 67.026, 38.721**, and **26, 62.496, 38.565** is the 20% darker color. If you saturate the color by 10%, you get **43, 76.172, 40.423**, and if you desaturate by 10%, it is **48, 57.954, 36.892**.

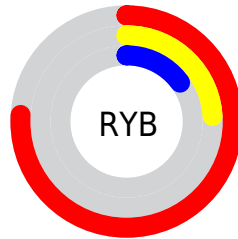
Distribution



Red (76%)

Green (23%)

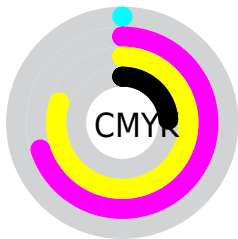
Blue (15%)



Red (76%)

Yellow (24%)

Blue (15%)

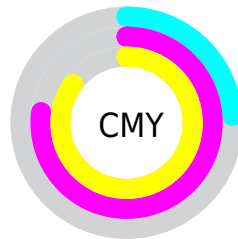


Cyan (0%)

Magenta (70%)

Yellow (80%)

Black (24%)



Cyan (24%)

Magenta (77%)

Yellow (85%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 67.539, 38.723 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, 67.539, 38.723 by changing the saturation by 10% instead.

 45, 67.539, 38.723

 45, 67.539, 38.723

 100, 67.539,
38.723

 35, 67.539, 38.723

 65, 67.539, 38.723

 25, 67.539, 38.723

 75, 67.539, 38.723

 15, 67.539, 38.723

 85, 67.539, 38.723

 5, 67.539, 38.723

 95, 67.539, 38.723

 0, 67.539, 38.723

 45, 67.539, 38.723

 45, 67.539, 38.723

 43, 76.172, 40.423

 48, 57.954, 36.892

 41, 82.681, 41.655

 51, 48.267, 35.299

■ 55, 38.869, 34.044

■ 59, 29.955, 33.111

■ 64, 21.618, 32.449

■ 68, 13.887, 31.998

■ 73, 6.749, 31.688

■ 78, 0.167, 28.383

■ 83, 5.909, 211.677

Harmonies

Complementary

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



45, 67.539, 38.723



65, 34.163, 216.221

Rectangle

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



45, 67.539, 38.723



45, 67.539, 88.723



45, 67.539, 218.723



45, 67.539, 268.723

Sweetspot

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



45, 67.536, 38.725



84, 20.621, 32.161



47, 80.808, 332.425



43, 14.376, 32.329



99, 0.012, 296.813



52, 0.007, 296.813

Same Dimension

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



45, 67.536, 38.725



54, 98.175, 41.095



60, 58.594, 75.412



38, 3.723, 31.663



34, 71.728, 41.776



4, 12.904, 27.098

Inverse Universe

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



65, 34.163, 216.221



80, 43.043, 219.754



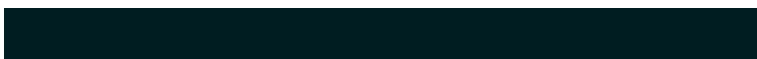
43, 57.749, 286.127



40, 3.506, 211.673



53, 31.066, 219.942



9, 10.861, 214.601

Previews

White Background



This preview shows how the CIELCh color 45, 67.539, 38.723 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, 67.539, 38.723 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, 67.539, 38.723

Background



This preview shows how black text looks on a background with the CIELCh color 45, 67.539, 38.723.



This preview shows how white text looks on a background with the CIELCh color 45, 67.539, 38.723.

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, 67.539, 38.723

Protanopia

45, 32.302, 95.350

Deuteranopia

45, 45.354, 82.746



Tritanopia
45, 62.892, 29.778

Trichromacy



Original Color
45, 67.539, 38.723

Protanomaly
43, 38.857, 59.913

Deuteranomaly
44, 49.678, 60.158

Tritanomaly
45, 64.455, 33.271

Monochromacy



Original Color
45, 67.539, 38.723

Achromatopsia
41, 0.006, 296.813

Achromatomaly
40, 23.342, 32.849

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 67.539, 38.723 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(193, 58, 38)` looks like.

```
.text, #text, p{  
    color:rgb(193, 58, 38)  
}
```

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(193, 58, 38) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(193, 58, 38) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 67.539, 38.723 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(193, 58, 38) }
```

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

```
.border{ border-color:rgb(193, 58, 38) }
```

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

Here you see how a box with a 4 pixel rgb(193, 58, 38) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(193, 58, 38); -webkit-box-  
shadow:4px 4px 4px 4px rgb(193, 58, 38);  
box-shadow:4px 4px 4px 4px rgb(193, 58,  
38) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 67.539, 38.723 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(193, 58, 38) }
```

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

```
.background{ background-color: rgb(193, 58,  
38) }
```

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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