

Converting Colors

CIELCh(45, 73.699, 33.903)

Have a look what the booklet for
CIELCh(45, 73.699, 33.903) contains.

CIELCh(45, 73.846, 33.998)	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, 73.846, 33.998)

Conversions

Conversions Part 1

Format	Color
Hex	CB2A29
RGB	203, 42, 41
RGB Percent	80%, 16%, 16%
CMY	0.2034, 0.8347, 0.8389
CMYK	0.00, 0.79, 0.80, 0.20
HSL	0°, 66%, 48%
HSV	0°, 80%, 80%
XYZ	25.8989, 14.5417, 3.5479
YIQ	90.0250, 96.2770, 33.8210

Conversions

Conversions Part 2

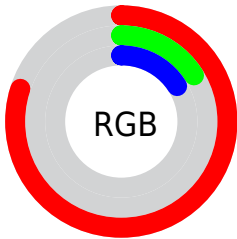
Format	Color
RYB	203, 42, 41
Decimal	13314601
CIELab	45.00, 61.22, 41.29
CIElCh	45, 73.846, 33.998
Yxy	14.5417, 0.5888, 0.3306
Android (android.graphics.Color)	4291504681 (0xFFCB2A29)
YUV	90.0250, -24.1693, 99.0791
Hunter-Lab	38.1336, 54.4965, 21.1772

Details

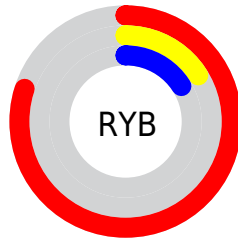
The CIELCh color **45, 73.846, 33.998** is a dark color, and the websafe version is hex **CC3333**. The color can be described as dark muted red. A complement of this color would be **74, 39.857, 197.385**, and the grayscale version is **38, 0.005, 296.813**.

A 20% lighter version of the original color is **63, 68.635, 33.906**, and **28, 66.016, 39.038** is the 20% darker color. If you saturate the color by 10%, you get **43, 82.099, 37.389**, and if you desaturate by 10%, it is **48, 64.236, 30.624**.

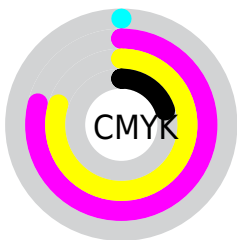
Distribution



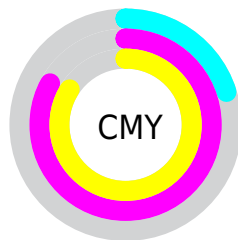
- Red (80%)
- Green (16%)
- Blue (16%)



- Red (80%)
- Yellow (16%)
- Blue (16%)



- Cyan (0%)
- Magenta (79%)
- Yellow (80%)
- Black (20%)



- Cyan (20%)
- Magenta (83%)
- Yellow (84%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 73.846, 33.998 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, 73.846, 33.998 by changing the saturation by 10% instead.

 45, 73.846, 33.998

 45, 73.846, 33.998

 100, 73.846,
33.998

 35, 73.846, 33.998

 65, 73.846, 33.998

 25, 73.846, 33.998

 75, 73.846, 33.998

 15, 73.846, 33.998

 85, 73.846, 33.998

 5, 73.846, 33.998

 95, 73.846, 33.998

 0, 73.846, 33.998

 45, 73.846, 33.998

 45, 73.846, 33.998

 43, 82.099, 37.389

 48, 64.236, 30.624

 42, 87.884, 39.998

 51, 54.120, 27.751

42, 88.018, 40.062

55, 43.946, 25.466

60, 34.027, 23.702

65, 24.575, 22.351

71, 15.706, 21.312

76, 7.462, 20.486

82, 0.167, 203.297

88, 7.220, 199.554

Harmonies

Complementary

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



45, 73.846, 33.998



74, 39.857, 197.385

Rectangle

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



45, 73.846, 33.998



45, 73.846, 83.998



45, 73.846, 213.998



45, 73.846, 263.998

Sweetspot

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



45, 73.843, 34.000



84, 23.340, 21.752



50, 90.882, 328.003



42, 16.256, 22.139



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, 73.843, 34.000



54, 102.502, 39.259



59, 60.296, 64.956



40, 4.341, 20.457



34, 75.462, 39.908



4, 17.839, 19.731

Inverse Universe

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



74, 39.857, 197.385



91, 49.449, 197.402



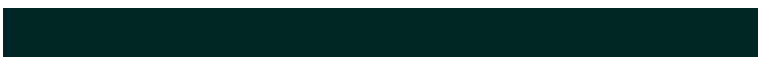
50, 49.020, 275.408



42, 4.091, 199.551



61, 35.962, 197.400



13, 13.413, 197.189

Previews

White Background



This preview shows how the CIELCh color 45, 73.846, 33.998 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, 73.846, 33.998 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, 73.846, 33.998

Background



This preview shows how black text looks on a background with the CIELCh color 45, 73.846, 33.998.



This preview shows how white text looks on a background with the CIELCh color 45, 73.846, 33.998.

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, 73.846, 33.998

Protanopia

45, 28.460, 95.613

Deuteranopia

45, 44.977, 82.631



Tritanopia
45, 73.573, 33.637

Trichromacy



Original Color
45, 73.846, 33.998

Protanomaly
42, 38.641, 50.550

Deuteranomaly
43, 51.237, 54.420

Tritanomaly
45, 73.573, 33.637

Monochromacy



Original Color
45, 73.846, 33.998

Achromatopsia
38, 0.005, 296.813

Achromatomaly
38, 27.037, 24.993

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 73.846, 33.998 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(203, 42, 41)` looks like.

```
.text, #text, p{  
    color:rgb(203, 42, 41)  
}
```

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(203, 42, 41) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(203, 42, 41) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 73.846, 33.998 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(203, 42, 41) }
```

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

```
.border{ border-color:rgb(203, 42, 41) }
```

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

Here you see how a box with a 4 pixel rgb(203, 42, 41) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(203, 42, 41); -webkit-box-  
shadow:4px 4px 4px 4px rgb(203, 42, 41);  
box-shadow:4px 4px 4px 4px rgb(203, 42,  
41) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 73.846, 33.998 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(203, 42, 41) }
```

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

```
.background{ background-color: rgb(203, 42,  
41) }
```

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