

Converting Colors

CIELCh(45, 74.225, 45.831)

Have a look what the booklet for
CIELCh(45, 74.225, 45.831) contains.

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Color

CIELCh(45, 74.190, 45.788)

Conversions

Conversions Part 1

Format	Color
Hex	C13B0C
RGB	193, 59, 12
RGB Percent	76%, 23%, 5%
CMY	0.2423, 0.7678, 0.9521
CMYK	0.00, 0.69, 0.94, 0.24
HSL	16°, 88%, 40%
HSV	16°, 94%, 76%
XYZ	23.6904, 14.5417, 1.9132
YIQ	93.7080, 94.9510, 13.7910

Conversions

Conversions Part 2

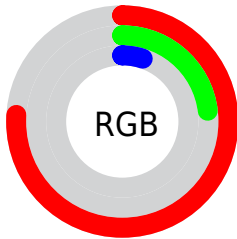
Format	Color
RYB	193, 75, 12
Decimal	12663564
CIELab	45.00, 51.73, 53.18
CIElCh	45, 74.190, 45.788
Yxy	14.5417, 0.5901, 0.3622
Android (android.graphics.Color)	4290853644 (0xFFC13B0C)
YUV	93.7080, -40.2820, 87.0791
Hunter-Lab	38.1336, 44.1591, 23.7188

Details

The CIELCh color **45, 74.190, 45.788** is a dark color, and the websafe version is hex **CC3300**. The color can be described as dark washed red. A complement of this color would be **57, 36.594, 245.495**, and the grayscale version is **40, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 73.183, 45.985**, and **26, 62.496, 38.565** is the 20% darker color. If you saturate the color by 10%, you get **44, 78.450, 45.539**, and if you desaturate by 10%, it is **47, 66.265, 46.010**.

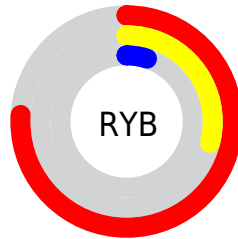
Distribution



Red (76%)

Green (23%)

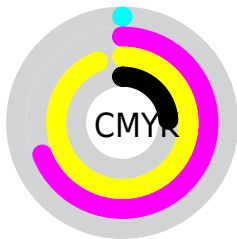
Blue (5%)



Red (76%)

Yellow (29%)

Blue (5%)

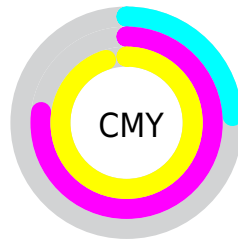


Cyan (0%)

Magenta (69%)

Yellow (94%)

Black (24%)



Cyan (24%)

Magenta (77%)

Yellow (95%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 74.190, 45.788 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, 74.190, 45.788 by changing the saturation by 10% instead.

■ 45, 74.190, 45.788

■ 45, 74.190, 45.788

■ 100, 74.190,
45.788

■ 35, 74.190, 45.788

■ 65, 74.190, 45.788

■ 25, 74.190, 45.788

■ 75, 74.190, 45.788

■ 15, 74.190, 45.788

■ 85, 74.190, 45.788

■ 5, 74.190, 45.788

■ 95, 74.190, 45.788

■ 0, 74.190, 45.788

■ 45, 74.190, 45.788

■ 45, 74.190, 45.788

■ 44, 78.450, 45.539

■ 47, 66.265, 46.010

■ 50, 57.164, 45.751

- 53, 47.896, 45.440
- 57, 38.928, 45.244
- 60, 30.459, 45.207
- 64, 22.557, 45.324
- 68, 15.231, 45.568
- 72, 8.454, 45.903
- 77, 2.183, 46.171

Harmonies

Complementary

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



45, 74.190, 45.788



57, 36.594, 245.495

Rectangle

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



45, 74.190, 45.788



45, 74.190, 95.788



45, 74.190, 225.788



45, 74.190, 275.788

Sweetspot

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



45, 74.187, 45.790



85, 22.819, 45.437



44, 77.014, 340.498



43, 16.167, 45.339



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, 74.187, 45.790



57, 96.488, 45.067



64, 66.680, 84.522



39, 3.455, 46.055



36, 68.077, 45.954



5, 12.076, 36.099

Inverse Universe

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



57, 36.594, 245.495



71, 46.196, 249.225



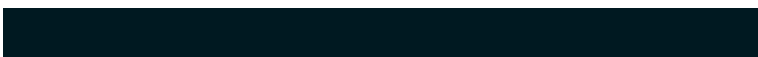
32, 84.017, 298.887



40, 3.274, 227.202



47, 32.641, 247.655



7, 10.381, 238.328

Previews

White Background



This preview shows how the CIELCh color 45, 74.190, 45.788 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, 74.190, 45.788 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

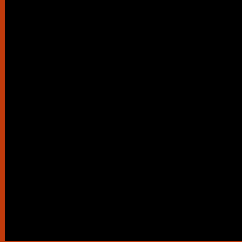
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 45, 74.190, 45.788

Background



This preview shows how black text looks on a background with the CIELCh color 45, 74.190, 45.788.



This preview shows how white text looks on a background with the CIELCh color 45, 74.190, 45.788.

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, 74.190, 45.788

Protanopia

45, 45.213, 95.656

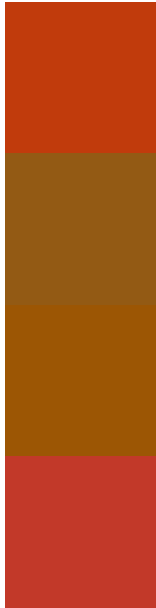
Deuteranopia

45, 52.467, 84.481



Tritanopia
45, 63.135, 29.486

Trichromacy



Original Color
45, 74.190, 45.788

Protanomaly
44, 49.736, 68.663

Deuteranomaly
44, 56.959, 64.986

Tritanomaly
45, 67.283, 37.327

Monochromacy



Original Color
45, 74.190, 45.788

Achromatopsia
40, 0.006, 296.813

Achromatomaly
40, 26.207, 45.021

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 74.190, 45.788 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, 59, 12)` looks like.

```
.text, #text, p{  
    color:rgb(193, 59, 12)  
}
```

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, 59, 12) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(193, 59, 12) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 74.190, 45.788 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, 59, 12) }
```

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

```
.border{ border-color:rgb(193, 59, 12) }
```

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

Here you see how a box with a 4 pixel rgb(193, 59, 12) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(193, 59, 12); -webkit-box-  
shadow:4px 4px 4px 4px rgb(193, 59, 12);  
box-shadow:4px 4px 4px 4px rgb(193, 59,  
12) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 74.190, 45.788 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(193, 59, 12) }
```

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

```
.background{ background-color: rgb(193, 59,  
12) }
```

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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