

Converting Colors

CIELCh(45, 71.962, 51.023)

Have a look what the booklet for
CIELCh(45, 71.962, 51.023) contains.

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Color

CIELCh(45, 71.968, 50.949)

Conversions

Conversions Part 1

Format	Color
Hex	BA4400
RGB	186, 68, 0
RGB Percent	73%, 27%, 0%
CMY	0.2711, 0.7338, 1.0000
CMYK	0.00, 0.63, 1.00, 0.27
HSL	22°, 100%, 36%
HSV	22°, 100%, 73%
XYZ	22.2756, 14.5417, 1.6292
YIQ	95.5300, 92.1560, 3.8680

Conversions

Conversions Part 2

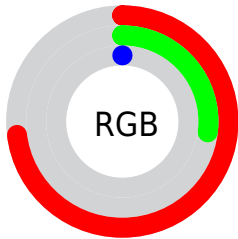
Format	Color
R_{YB}	186, 107, 0
Decimal	12207104
CIE _{Lab}	45.00, 45.34, 55.89
CIE _{LCh}	45, 71.968, 50.949
Yxy	14.5417, 0.5794, 0.3782
Android (android.graphics.Color)	4290397184 (0xFFBA4400)
YUV	95.5300, -47.0963, 79.3422
Hunter-Lab	38.1336, 37.5363, 24.1605

Details

The CIELCh color **45, 71.968, 50.949** is a dark color, and the websafe version is hex **993300**. A complement of this color would be **48, 43.382, 267.288**, and the grayscale version is **41, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 71.849, 51.189**, and **25, 58.907, 39.277** is the 20% darker color. If you saturate the color by 10%, you get **45, 71.939, 50.933**, and if you desaturate by 10%, it is **47, 65.725, 52.477**.

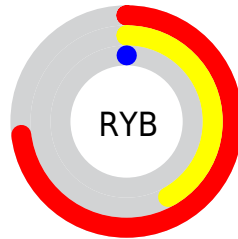
Distribution



Red (73%)

Green (27%)

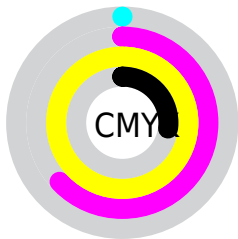
Blue (0%)



Red (73%)

Yellow (42%)

Blue (0%)

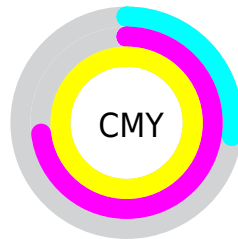


Cyan (0%)

Magenta (63%)

Yellow (100%)

Black (27%)



Cyan (27%)

Magenta (73%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 71.968, 50.949 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, 71.968, 50.949 by changing the saturation by 10% instead.

■ 45, 71.968, 50.949 ■ 45, 71.968, 50.949

■ 100, 71.968, 50.949 ■ 35, 71.968, 50.949

■ 65, 71.968, 50.949 ■ 25, 71.968, 50.949

■ 75, 71.968, 50.949 ■ 15, 71.968, 50.949

■ 85, 71.968, 50.949 ■ 5, 71.968, 50.949

■ 95, 71.968, 50.949 ■ 0, 71.968, 50.949

■ 45, 71.968, 50.949 ■ 45, 71.968, 50.949

■ 45, 71.939, 50.933 ■ 47, 65.725, 52.477

■ 50, 58.175, 53.567

■ 52, 49.878, 54.286

■ 55, 41.543, 54.910

■ 58, 33.502, 55.556

■ 62, 25.891, 56.262

■ 65, 18.751, 57.031

■ 68, 12.076, 57.849

■ 72, 5.837, 58.682

Harmonies

Complementary

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



45, 71.968, 50.949



48, 43.382, 267.288

Rectangle

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



45, 71.968, 50.949



45, 71.968, 100.949



45, 71.968, 230.949



45, 71.968, 280.949

Sweetspot

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



45, 71.939, 50.933



83, 23.296, 56.991



41, 70.642, 348.746



42, 16.262, 56.659



98, 0.011, 296.813



51, 0.007, 296.813

Same Dimension

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



45, 71.939, 50.933



58, 88.276, 50.312



66, 69.097, 92.077



37, 3.267, 58.736



38, 62.773, 51.452



4, 8.775, 47.489

Inverse Universe

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



48, 43.382, 267.288



61, 53.552, 268.218



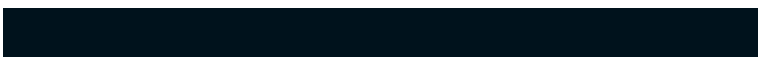
25, 96.913, 303.891



37, 3.134, 240.663



40, 37.675, 266.520



5, 9.059, 253.788

Previews

White Background



This preview shows how the CIELCh color 45, 71.968, 50.949 looks on a white background.

Color Contrast Check

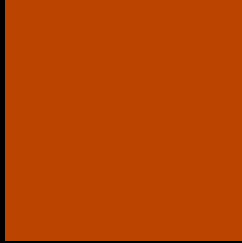
Large Text (above 18pt) WCAG AA ✓ Pass

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, 71.968, 50.949 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

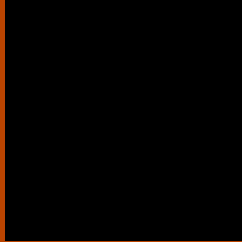
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 45, 71.968, 50.949

Background



This preview shows how black text looks on a background with the CIELCh color 45, 71.968, 50.949.



This preview shows how white text looks on a background with the CIELCh color 45, 71.968, 50.949.

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, 71.968, 50.949

Protanopia

45, 47.253, 95.701

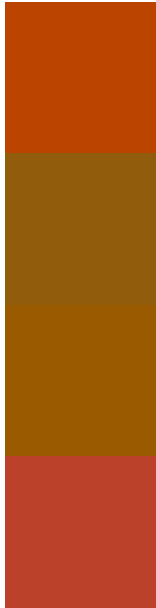
Deuteranopia

45, 52.467, 84.481



Tritanopia
45, 56.125, 26.962

Trichromacy



Original Color
45, 71.968, 50.949

Protanomaly
44, 51.375, 72.738

Deuteranomaly
44, 56.606, 68.856

Tritanomaly
45, 61.992, 39.312

Monochromacy



Original Color
45, 71.968, 50.949

Achromatopsia
40, 0.006, 296.813

Achromatomaly
40, 26.371, 55.693

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 71.968, 50.949 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(186, 68, 0)` looks like.

```
.text, #text, p{  
    color:rgb(186, 68, 0)  
}
```

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(186, 68, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(186, 68, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 71.968, 50.949 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(186, 68, 0) }
```

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

```
.border{ border-color:rgb(186, 68, 0) }
```

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

Here you see how a box with a 4 pixel rgb(186, 68, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(186, 68, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(186, 68, 0);  
box-shadow:4px 4px 4px 4px rgb(186, 68, 0)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 45, 71.968, 50.949 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(186, 68, 0) }
```

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

```
.background{ background-color: rgb(186, 68,  
0) }
```

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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