

Converting Colors

CIELCh(45, 72.475, 49.257)

Have a look what the booklet for
CIELCh(45, 72.475, 49.257) contains.

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Color

CIELCh(45, 72.538, 49.164)

Conversions

Conversions Part 1

Format	Color
Hex	BC4104
RGB	188, 65, 4
RGB Percent	74%, 25%, 2%
CMY	0.2617, 0.7442, 0.9833
CMYK	0.00, 0.65, 0.98, 0.26
HSL	20°, 96%, 38%
HSV	20°, 98%, 74%
XYZ	22.7321, 14.5417, 1.7312
YIQ	94.8230, 92.8890, 7.1050

Conversions

Conversions Part 2

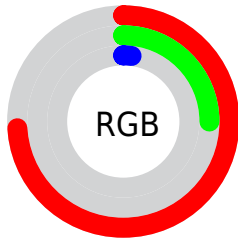
Format	Color
R_{YB}	188, 95, 4
Decimal	12337412
CIE _{Lab}	45.00, 47.43, 54.88
CIE _{LCh}	45, 72.538, 49.164
Yxy	14.5417, 0.5828, 0.3728
Android (android.graphics.Color)	4290527492 (0xFFBC4104)
YUV	94.8230, -44.7757, 81.7162
Hunter-Lab	38.1336, 39.6732, 24.0018

Details

The CIELCh color **45, 72.538, 49.164** is a dark color, and the websafe version is hex **CC3300**. A complement of this color would be **51, 40.512, 260.713**, and the grayscale version is **40, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 72.865, 49.135**, and **25, 60.499, 38.246** is the 20% darker color. If you saturate the color by 10%, you get **45, 74.032, 48.974**, and if you desaturate by 10%, it is **47, 65.847, 50.422**.

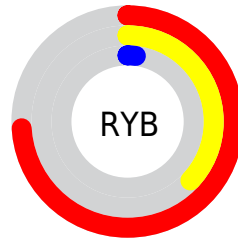
Distribution



Red (74%)

Green (25%)

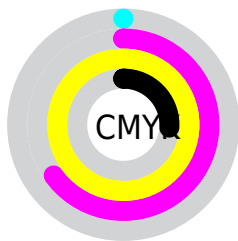
Blue (2%)



Red (74%)

Yellow (37%)

Blue (2%)

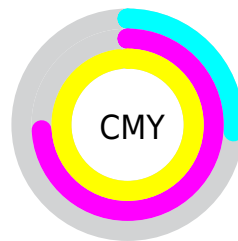


Cyan (0%)

Magenta (65%)

Yellow (98%)

Black (26%)



Cyan (26%)

Magenta (74%)

Yellow (98%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 72.538, 49.164 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, 72.538, 49.164 by changing the saturation by 10% instead.

■ 45, 72.538, 49.164

■ 45, 72.538, 49.164

■ 100, 72.538,
49.164

■ 35, 72.538, 49.164

■ 65, 72.538, 49.164

■ 25, 72.538, 49.164

■ 75, 72.538, 49.164

■ 15, 72.538, 49.164

■ 85, 72.538, 49.164

■ 5, 72.538, 49.164

■ 95, 72.538, 49.164

■ 0, 72.538, 49.164

■ 45, 72.538, 49.164

■ 45, 72.538, 49.164

■ 45, 74.032, 48.974

■ 47, 65.847, 50.422

■ 50, 57.688, 51.071

■ 53, 49.020, 51.458

■ 56, 40.461, 51.823

■ 59, 32.284, 52.257

■ 63, 24.595, 52.782

■ 66, 17.418, 53.392

■ 70, 10.737, 54.065

■ 73, 4.517, 54.749

Harmonies

Complementary

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



45, 72.538, 49.164



51, 40.512, 260.713

Rectangle

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



45, 72.538, 49.164



45, 72.538, 99.164



45, 72.538, 229.164



45, 72.538, 279.164

Sweetspot

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



45, 72.535, 49.166



83, 22.689, 53.281



42, 72.564, 345.707



42, 15.811, 53.016



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, 72.535, 49.166



57, 90.705, 48.401



65, 68.108, 89.592



38, 3.336, 54.644



37, 64.747, 49.449



5, 10.237, 42.941

Inverse Universe

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



51, 40.512, 260.713



64, 50.587, 262.724



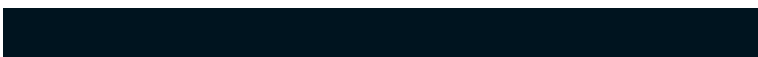
27, 93.026, 302.503



38, 3.186, 236.354



42, 35.871, 261.060



6, 9.872, 249.925

Previews

White Background



This preview shows how the CIELCh color 45, 72.538, 49.164 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, 72.538, 49.164 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, 72.538, 49.164

Background



This preview shows how black text looks on a background with the CIELCh color 45, 72.538, 49.164.



This preview shows how white text looks on a background with the CIELCh color 45, 72.538, 49.164.

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, 72.538, 49.164

Protanopia

45, 46.936, 95.695

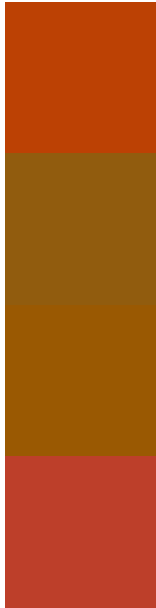
Deuteranopia

45, 52.467, 84.481



Tritanopia
45, 58.572, 28.100

Trichromacy



Original Color
45, 72.538, 49.164

Protanomaly
44, 50.858, 71.820

Deuteranomaly
44, 56.514, 67.672

Tritanomaly
45, 63.588, 38.926

Monochromacy



Original Color
45, 72.538, 49.164

Achromatopsia
40, 0.006, 296.813

Achromatomaly
40, 26.063, 51.839

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 72.538, 49.164 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(188, 65, 4)` looks like.

```
.text, #text, p{  
    color:rgb(188, 65, 4)  
}
```

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(188, 65, 4) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(188, 65, 4) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 72.538, 49.164 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(188, 65, 4) }
```

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

```
.border{ border-color:rgb(188, 65, 4) }
```

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

Here you see how a box with a 4 pixel `rgb(188, 65, 4)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(188, 65, 4); -webkit-box-  
shadow:4px 4px 4px 4px rgb(188, 65, 4);  
box-shadow:4px 4px 4px 4px rgb(188, 65, 4)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 45, 72.538, 49.164 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(188, 65, 4) }
```

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

```
.background{ background-color: rgb(188, 65,  
4) }
```

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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