

Converting Colors

CIELCh(40, 74.685, 45.177)

Have a look what the booklet for
CIELCh(40, 74.685, 45.177) contains.

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Color

CIELCh(40, 74.299, 45.002)

Conversions

Conversions Part 1

Format	Color
Hex	B22B00
RGB	178, 43, 0
RGB Percent	70%, 17%, 0%
CMY	0.3008, 0.8302, 0.9991
CMYK	0.00, 0.76, 1.00, 0.30
HSL	15°, 100%, 35%
HSV	15°, 100%, 70%
XYZ	19.3060, 11.2510, 1.1604
YIQ	78.4630, 94.2630, 15.2470

Conversions

Conversions Part 2

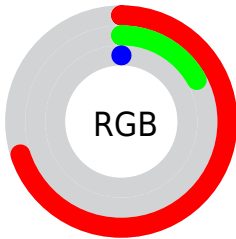
Format	Color
RYB	178, 57, 0
Decimal	11676416
CIELab	40.00, 52.54, 52.54
CIElCh	40, 74.299, 45.002
Yxy	11.2510, 0.6087, 0.3547
Android (android.graphics.Color)	4289866496 (0xFFB22B00)
YUV	78.4630, -38.6823, 87.2939
Hunter-Lab	33.5425, 44.0398, 21.4286

Details

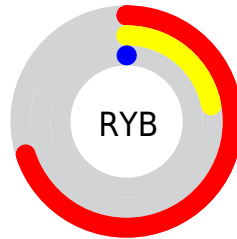
The CIELCh color **40, 74.299, 45.002** is a dark color, and the websafe version is hex **CC3300**. A complement of this color would be **53, 34.642, 244.387**, and the grayscale version is **34, 0.005, 296.813**.

A 20% lighter version of the original color is **60, 74.313, 44.871**, and **23, 56.415, 37.464** is the 20% darker color. If you saturate the color by 10%, you get **40, 74.384, 45.013**, and if you desaturate by 10%, it is **42, 67.496, 45.063**.

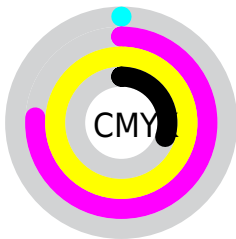
Distribution



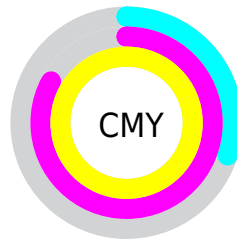
- Red (70%)
- Green (17%)
- Blue (0%)



- Red (70%)
- Yellow (22%)
- Blue (0%)



- Cyan (0%)
- Magenta (76%)
- Yellow (100%)
- Black (30%)



- Cyan (30%)
- Magenta (83%)
- Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 40, 74.299, 45.002 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 40, 74.299, 45.002 by changing the saturation by 10% instead.

 40, 74.299, 45.002  40, 74.299, 45.002


 100, 74.299,
45.002  30, 74.299, 45.002

 60, 74.299, 45.002  20, 74.299, 45.002

 70, 74.299, 45.002  10, 74.299, 45.002

 80, 74.299, 45.002  0, 74.299, 45.002

 90, 74.299, 45.002

 40, 74.299, 45.002  40, 74.299, 45.002

 40, 74.384, 45.013  42, 67.496, 45.063

 44, 59.369, 44.792

■ 47, 50.619, 44.288

■ 50, 41.940, 43.849

■ 54, 33.639, 43.574

■ 57, 25.843, 43.477

■ 61, 18.591, 43.538

■ 65, 11.878, 43.724

■ 69, 5.671, 43.983

Harmonies

Complementary

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



40, 74.299, 45.002



53, 34.642, 244.387

Rectangle

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



40, 74.299, 45.002



40, 74.299, 95.002



40, 74.299, 225.002



40, 74.299, 275.002

Sweetspot

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



40, 74.296, 45.004



77, 23.187, 43.530



40, 73.863, 340.202



39, 16.220, 43.491



96, 0.011, 296.813



49, 0.007, 296.813

Same Dimension

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



40, 74.296, 45.004



52, 91.150, 44.532



58, 63.768, 81.971



36, 3.248, 43.998



34, 66.092, 45.309



3, 7.818, 37.957

Inverse Universe

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



53, 34.642, 244.387



67, 42.393, 245.306



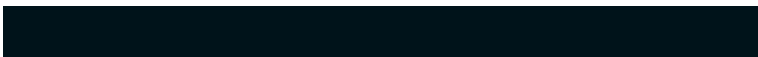
28, 82.184, 299.788



37, 3.075, 224.985



45, 30.872, 243.834



5, 7.482, 235.769

Previews

White Background



This preview shows how the CIELCh color 40, 74.299, 45.002 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 40, 74.299, 45.002 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 40, 74.299, 45.002

Background



This preview shows how black text looks on a background with the CIELCh color 40, 74.299, 45.002.



This preview shows how white text looks on a background with the CIELCh color 40, 74.299, 45.002.

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

40, 74.299, 45.002

Protanopia

40, 41.622, 96.152

Deuteranopia

40, 48.291, 84.972



Tritanopia
40, 64.553, 32.609

Trichromacy



Original Color
40, 74.299, 45.002

Protanomaly
38, 47.610, 66.439

Deuteranomaly
39, 54.136, 63.552

Tritanomaly
40, 68.624, 38.651

Monochromacy



Original Color
40, 74.299, 45.002

Achromatopsia
34, 0.005, 296.813

Achromatomaly
34, 27.036, 44.047

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 40, 74.299, 45.002 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(178, 43, 0)` looks like.

```
.text, #text, p{  
    color:rgb(178, 43, 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(178, 43, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(178, 43, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 40, 74.299, 45.002 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(178, 43, 0) }
```

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

```
.border{ border-color:rgb(178, 43, 0) }
```

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

Here you see how a box with a 4 pixel rgb(178, 43, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(178, 43, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(178, 43, 0);  
box-shadow:4px 4px 4px 4px rgb(178, 43, 0)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 40, 74.299, 45.002 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(178, 43, 0) }
```

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

```
.background{ background-color: rgb(178, 43,  
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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