

Converting Colors

CIELCh(46, 81.553, 45.683)

Have a look what the booklet for
CIELCh(46, 81.553, 45.683) contains.

CIELCh(46, 81.434, 45.502)	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(46, 81.434, 45.502)

Conversions

Conversions Part 1

Format	Color
Hex	CB3500
RGB	203, 53, 0
RGB Percent	80%, 21%, 0%
CMY	0.2035, 0.7917, 0.9996
CMYK	0.00, 0.74, 1.00, 0.20
HSL	16°, 100%, 40%
HSV	16°, 100%, 80%
XYZ	25.9381, 15.2687, 1.5829
YIQ	91.8080, 106.4130, 15.3170

Conversions

Conversions Part 2

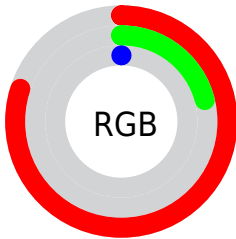
Format	Color
R_{YB}	203, 72, 0
Decimal	13317376
CIE Lab	46.00, 57.08, 58.08
CIE LCh	46, 81.434, 45.502
Yxy	15.2687, 0.6062, 0.3568
Android (android.graphics.Color)	4291507456 (0xFFCB3500)
YUV	91.8080, -45.2613, 97.5154
Hunter-Lab	39.0751, 50.1069, 24.9509

Details

The CIELCh color **46, 81.434, 45.502** 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 **58, 39.123, 248.852**, and the grayscale version is **39, 0.006, 296.813**.

A 20% lighter version of the original color is **64, 76.118, 46.454**, and **28, 65.630, 38.991** is the 20% darker color. If you saturate the color by 10%, you get **46, 81.466, 45.504**, and if you desaturate by 10%, it is **48, 74.366, 46.044**.

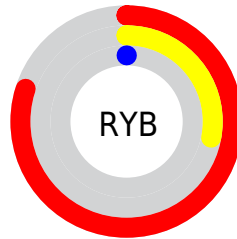
Distribution



Red (80%)

Green (21%)

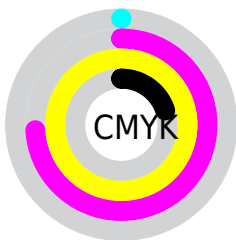
Blue (0%)



Red (80%)

Yellow (28%)

Blue (0%)

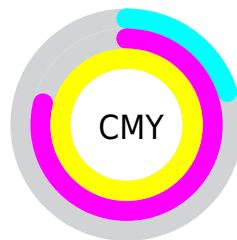


Cyan (0%)

Magenta (74%)

Yellow (100%)

Black (20%)



Cyan (20%)

Magenta (79%)

Yellow (100%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 46, 81.434, 45.502 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 46, 81.434, 45.502 by changing the saturation by 10% instead.

 46, 81.434, 45.502

 46, 81.434, 45.502

 100, 81.434,
45.502

 36, 81.434, 45.502

 66, 81.434, 45.502

 26, 81.434, 45.502

 76, 81.434, 45.502

 16, 81.434, 45.502

 86, 81.434, 45.502

 6, 81.434, 45.502

 96, 81.434, 45.502

 0, 81.434, 45.502

 46, 81.434, 45.502

 46, 81.434, 45.502

 46, 81.466, 45.504

 48, 74.366, 46.044

 51, 65.535, 46.049

■ 54, 55.922, 45.757

■ 57, 46.351, 45.490

■ 61, 37.189, 45.361

■ 65, 28.583, 45.393

■ 69, 20.579, 45.569

■ 73, 13.166, 45.862

■ 77, 6.312, 46.221

Harmonies

Complementary

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



46, 81.434, 45.502



58, 39.123, 248.852

Rectangle

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



46, 81.434, 45.502



46, 81.434, 95.502



46, 81.434, 225.502



46, 81.434, 275.502

Sweetspot

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



46, 81.431, 45.504



85, 24.837, 45.559



46, 80.323, 341.460



43, 17.241, 45.470



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



46, 81.431, 45.504



57, 97.168, 45.114



66, 70.582, 83.277



41, 3.603, 46.241



38, 69.671, 45.944



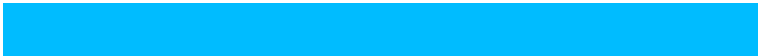
6, 15.543, 34.533

Inverse Universe

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



58, 39.123, 248.852



72, 46.654, 249.581



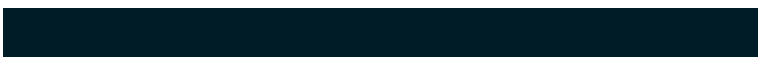
31, 93.453, 300.787



42, 3.414, 227.406



48, 33.490, 248.108



9, 11.842, 237.088

Previews

White Background



This preview shows how the CIELCh color 46, 81.434, 45.502 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 46, 81.434, 45.502 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

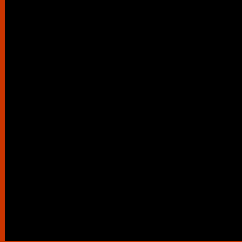
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 46, 81.434, 45.502

Background



This preview shows how black text looks on a background with the CIELCh color 46, 81.434, 45.502.



This preview shows how white text looks on a background with the CIELCh color 46, 81.434, 45.502.

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

46, 81.434, 45.502

Protanopia

46, 46.804, 95.210

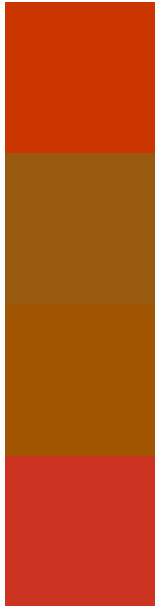
Deuteranopia

46, 53.449, 83.771



Tritanopia
46, 70.022, 31.883

Trichromacy



Original Color
46, 81.434, 45.502

Protanomaly
44, 53.199, 66.452

Deuteranomaly
44, 60.042, 63.065

Tritanomaly
46, 75.091, 38.787

Monochromacy



Original Color
46, 81.434, 45.502

Achromatopsia
39, 0.006, 296.813

Achromatomaly
39, 29.374, 45.308

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 46, 81.434, 45.502 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, 53, 0)` looks like.

```
.text, #text, p{  
    color:rgb(203, 53, 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(203, 53, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(203, 53, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 46, 81.434, 45.502 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, 53, 0) }
```

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

```
.border{ border-color:rgb(203, 53, 0) }
```

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

Here you see how a box with a 4 pixel rgb(203, 53, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(203, 53, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(203, 53, 0);  
box-shadow:4px 4px 4px 4px rgb(203, 53, 0)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 46, 81.434, 45.502 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(203, 53, 0) }
```

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

```
.background{ background-color: rgb(203, 53,  
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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