

Converting Colors

CIELCh(45, 86.457, 42.441)

Have a look what the booklet for
CIELCh(45, 86.457, 42.441) contains.

CIELCh(45, 86.533, 42.318)	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(45, 86.533, 42.318)

Conversions

Conversions Part 1

Format	Color
Hex	D02200
RGB	208, 34, 0
RGB Percent	82%, 13%, 0%
CMY	0.1845, 0.8669, 1.0000
CMYK	0.00, 0.84, 1.00, 0.18
HSL	10°, 100%, 41%
HSV	10°, 100%, 82%
XYZ	26.5665, 14.5417, 1.4054
YIQ	82.1500, 114.6180, 26.3140

Conversions

Conversions Part 2

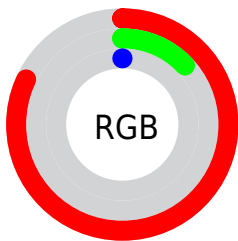
Format	Color
RYB	208, 41, 0
Decimal	13640192
CIELab	45.00, 63.98, 58.26
CIELCh	45, 86.533, 42.318
Yxy	14.5417, 0.6249, 0.3420
Android (android.graphics.Color)	4291830272 (0xFFD02200)
YUV	82.1500, -40.5000, 110.3704
Hunter-Lab	38.1336, 57.6215, 24.5084

Details

The CIELCh color **45, 86.533, 42.318** is a dark color, and the websafe version is hex **CC0000**. The color can be described as dark washed red. A complement of this color would be **66, 37.332, 227.817**, and the grayscale version is **35, 0.005, 296.813**.

A 20% lighter version of the original color is **62, 79.087, 43.165**, and **29, 67.168, 39.169** is the 20% darker color. If you saturate the color by 10%, you get **45, 86.521, 42.313**, and if you desaturate by 10%, it is **47, 79.481, 41.634**.

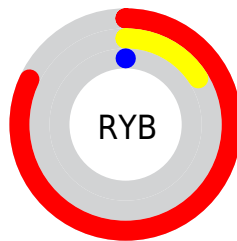
Distribution



Red (82%)

Green (13%)

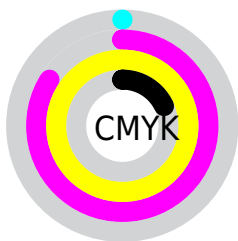
Blue (0%)



Red (82%)

Yellow (16%)

Blue (0%)

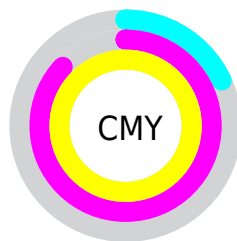


Cyan (0%)

Magenta (84%)

Yellow (100%)

Black (18%)



Cyan (18%)

Magenta (87%)

Yellow (100%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 86.533, 42.318 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, 86.533, 42.318 by changing the saturation by 10% instead.

 45, 86.533, 42.318

 45, 86.533, 42.318

 100, 86.533,
42.318

 35, 86.533, 42.318

 65, 86.533, 42.318

 25, 86.533, 42.318

 75, 86.533, 42.318

 15, 86.533, 42.318

 85, 86.533, 42.318

 5, 86.533, 42.318

 95, 86.533, 42.318

 0, 86.533, 42.318

 45, 86.533, 42.318

 45, 86.533, 42.318

 45, 86.521, 42.313

 47, 79.481, 41.634

 49, 70.278, 40.394

■ 52, 60.131, 38.967

■ 56, 49.941, 37.719

■ 60, 40.112, 36.754

■ 64, 30.834, 36.066

■ 69, 22.187, 35.616

■ 74, 14.184, 35.352

■ 78, 6.803, 35.210

Harmonies

Complementary

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



45, 86.533, 42.318



66, 37.332, 227.817

Rectangle

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



45, 86.533, 42.318



45, 86.533, 92.318



45, 86.533, 222.318



45, 86.533, 272.318

Sweetspot

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



45, 86.521, 42.313



83, 26.220, 35.628



48, 88.045, 335.329



42, 18.210, 35.798



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, 86.521, 42.313



55, 101.250, 42.081



62, 70.733, 73.809



41, 3.868, 35.203



36, 73.575, 42.608



6, 18.147, 28.211

Inverse Universe

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



66, 37.332, 227.817



79, 43.542, 228.240



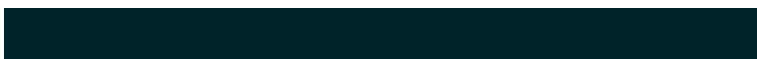
37, 82.335, 295.945



43, 3.643, 215.502



54, 31.895, 227.291



11, 12.279, 220.537

Previews

White Background



This preview shows how the CIELCh color 45, 86.533, 42.318 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, 86.533, 42.318 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, 86.533, 42.318

Background



This preview shows how black text looks on a background with the CIELCh color 45, 86.533, 42.318.



This preview shows how white text looks on a background with the CIELCh color 45, 86.533, 42.318.

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, 86.533, 42.318

Protanopia

45, 44.841, 95.646

Deuteranopia

45, 52.648, 83.976



Tritanopia
45, 80.298, 36.173

Trichromacy



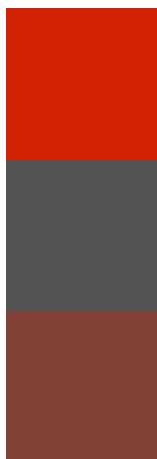
Original Color
45, 86.533, 42.318

Protanomaly
42, 53.308, 61.054

Deuteranomaly
43, 61.224, 59.011

Tritanomaly
45, 82.938, 39.054

Monochromacy



Original Color
45, 86.533, 42.318

Achromatopsia
35, 0.005, 296.813

Achromatomaly
35, 32.766, 38.008

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 86.533, 42.318 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(208, 34, 0)` looks like.

```
.text, #text, p{  
  color:rgb(208, 34, 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(208, 34, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(208, 34, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 86.533, 42.318 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(208, 34, 0) }
```

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

```
.border{ border-color:rgb(208, 34, 0) }
```

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

Here you see how a box with a 4 pixel rgb(208, 34, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(208, 34, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(208, 34, 0);  
box-shadow:4px 4px 4px 4px rgb(208, 34, 0)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 45, 86.533, 42.318 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(208, 34, 0) }
```

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

```
.background{ background-color: rgb(208, 34,  
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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor