

Converting Colors

CIELCh(50, 87.496, 45.086)

Have a look what the booklet for
CIELCh(50, 87.496, 45.086) contains.

CIELCh(50, 87.453, 45.166)	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(50, 87.453, 45.166)

Conversions

Conversions Part 1

Format	Color
Hex	DE3900
RGB	222, 57, 0
RGB Percent	87%, 22%, 0%
CMY	0.1300, 0.7770, 1.0000
CMYK	0.00, 0.74, 1.00, 0.13
HSL	15°, 100%, 44%
HSV	15°, 100%, 87%
XYZ	31.5349, 18.4187, 1.8891
YIQ	99.8370, 116.6370, 17.2530

Conversions

Conversions Part 2

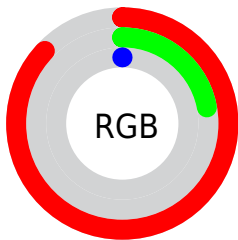
Format	Color
RYB	222, 77, 0
Decimal	14563584
CIELab	50.00, 61.66, 62.02
CIElCh	50, 87.453, 45.166
Yxy	18.4187, 0.6083, 0.3553
Android (android.graphics.Color)	4292753664 (0xFFDE3900)
YUV	99.8370, -49.2196, 107.1370
Hunter-Lab	42.9170, 56.0550, 27.4321

Details

The CIELCh color **50, 87.453, 45.166** 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 **63, 41.635, 248.180**, and the grayscale version is **42, 0.006, 296.813**.

A 20% lighter version of the original color is **65, 74.571, 47.691**, and **32, 72.402, 39.637** is the 20% darker color. If you saturate the color by 10%, you get **50, 87.425, 45.151**, and if you desaturate by 10%, it is **52, 80.112, 45.775**.

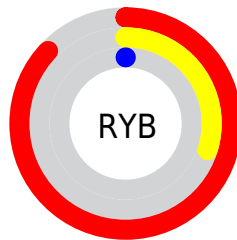
Distribution



Red (87%)

Green (22%)

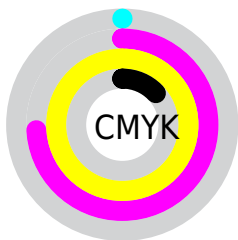
Blue (0%)



Red (87%)

Yellow (30%)

Blue (0%)

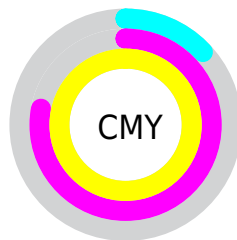


Cyan (0%)

Magenta (74%)

Yellow (100%)

Black (13%)



Cyan (13%)

Magenta (78%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 50, 87.453, 45.166 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 50, 87.453, 45.166 by changing the saturation by 10% instead.

■ 50, 87.453, 45.166

■ 50, 87.453, 45.166

■ 100, 87.453,
45.166

■ 40, 87.453, 45.166

■ 70, 87.453, 45.166

■ 30, 87.453, 45.166

■ 80, 87.453, 45.166

■ 20, 87.453, 45.166

■ 90, 87.453, 45.166

■ 10, 87.453, 45.166

■ 0, 87.453, 45.166

■ 50, 87.453, 45.166

■ 50, 87.453, 45.166

■ 50, 87.425, 45.151

■ 52, 80.112, 45.775

■ 55, 70.681, 45.752

■ 58, 60.340, 45.410

62, 50.020, 45.091

66, 40.132, 44.916

70, 30.844, 44.909

75, 22.207, 45.053

79, 14.215, 45.318

84, 6.828, 45.654

Harmonies

Complementary

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



50, 87.453, 45.166



63, 41.635, 248.180

Rectangle

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



50, 87.453, 45.166



50, 87.453, 95.166



50, 87.453, 225.166



50, 87.453, 275.166

Sweetspot

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



50, 87.425, 45.151



84, 24.886, 45.048



50, 85.743, 341.560



43, 17.276, 44.971



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



50, 87.425, 45.151



57, 97.397, 44.927



72, 75.394, 83.142



45, 3.905, 45.672



40, 73.113, 45.608



8, 21.557, 36.187

Inverse Universe

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



63, 41.635, 248.180



72, 46.368, 248.591



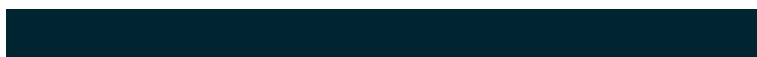
34, 100.422, 300.964



46, 3.696, 226.805



51, 34.851, 247.369



12, 13.775, 238.585

Previews

White Background



This preview shows how the CIELCh color 50, 87.453, 45.166 looks on a white 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

Black Background



This preview shows how the CIELCh color 50, 87.453, 45.166 looks on a black 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

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

CIELCh 50, 87.453, 45.166

Background



This preview shows how black text looks on a background with the CIELCh color 50, 87.453, 45.166.



This preview shows how white text looks on a background with the CIELCh color 50, 87.453, 45.166.

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

50, 87.453, 45.166

Protanopia

50, 50.117, 95.290

Deuteranopia

50, 56.869, 84.212



Tritanopia
50, 75.805, 31.973

Trichromacy



Original Color
50, 87.453, 45.166

Protanomaly
48, 57.137, 66.271

Deuteranomaly
48, 64.156, 62.852

Tritanomaly
50, 81.051, 38.537

Monochromacy



Original Color
50, 87.453, 45.166

Achromatopsia
42, 0.006, 296.813

Achromatomaly
42, 31.924, 44.395

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 50, 87.453, 45.166 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(222, 57, 0)` looks like.

```
.text, #text, p{  
    color:rgb(222, 57, 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(222, 57, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(222, 57, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 50, 87.453, 45.166 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(222, 57, 0) }
```

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

```
.border{ border-color:rgb(222, 57, 0) }
```

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

Here you see how a box with a 4 pixel rgb(222, 57, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(222, 57, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(222, 57, 0);  
box-shadow:4px 4px 4px 4px rgb(222, 57, 0)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 50, 87.453, 45.166 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(222, 57, 0) }
```

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

```
.background{ background-color: rgb(222, 57,  
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