

Converting Colors

CIELCh(41, 104.744, 42.331)

Have a look what the booklet for
CIELCh(41, 104.744, 42.331)
contains.

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Color

CIELCh(44, 90.653, 40.000)

Conversions

Conversions Part 1

Format	Color
Hex	D30000
RGB	211, 0, 0
RGB Percent	83%, 0%, 0%
CMY	0.1727, 1.0000, 1.0000
CMYK	0.00, 1.00, 1.00, 0.17
HSL	0°, 100%, 41%
HSV	0°, 100%, 83%
XYZ	26.8477, 13.8382, 1.2550
YIQ	63.0890, 125.7560, 44.7320

Conversions

Conversions Part 2

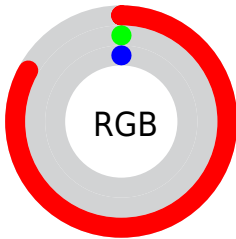
Format	Color
RYB	211, 0, 0
Decimal	13828096
CIELab	44.00, 69.44, 58.27
CIElCh	44, 90.653, 40.000
Yxy	13.8382, 0.6401, 0.3299
Android (android.graphics.Color)	4292018176 (0xFFD30000)
YUV	63.0890, -31.1029, 129.7179
Hunter-Lab	37.1997, 63.7272, 24.0396

Details

The CIELCh color **44, 90.653, 40.000** 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 **77, 43.435, 196.386**, and the grayscale version is **27, 0.004, 296.813**.

A 20% lighter version of the original color is **60, 81.926, 40.674**, and **30, 68.310, 39.289** is the 20% darker color. If you saturate the color by 10%, you get **44, 90.636, 40.000**, and if you desaturate by 10%, it is **45, 84.899, 37.420**.

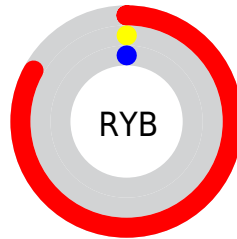
Distribution



Red (83%)

Green (0%)

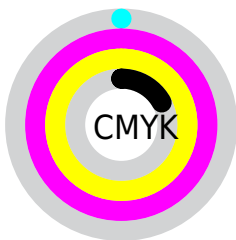
Blue (0%)



Red (83%)

Yellow (0%)

Blue (0%)

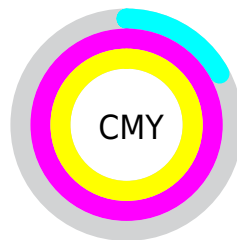


Cyan (0%)

Magenta (100%)

Yellow (100%)

Black (17%)



Cyan (17%)

Magenta (100%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 44, 90.653, 40.000 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 44, 90.653, 40.000 by changing the saturation by 10% instead.

 44, 90.653, 40.000  44, 90.653, 40.000

 100, 90.653,
40.000  34, 90.653, 40.000

 64, 90.653, 40.000  24, 90.653, 40.000

 74, 90.653, 40.000  14, 90.653, 40.000

 84, 90.653, 40.000  4, 90.653, 40.000

 94, 90.653, 40.000  0, 90.653, 40.000

 44, 90.653, 40.000  44, 90.653, 40.000

 44, 90.636, 40.000  45, 84.899, 37.420

 47, 76.547, 33.956

■ 49, 66.721, 30.473

■ 53, 56.315, 27.500

■ 57, 45.808, 25.135

■ 62, 35.533, 23.307

■ 67, 25.723, 21.908

■ 73, 16.507, 20.831

■ 79, 7.935, 19.974

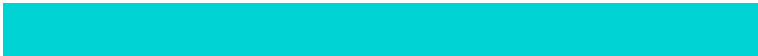
Harmonies

Complementary

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



44, 90.653, 40.000



77, 43.435, 196.386

Rectangle

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



44, 90.653, 40.000



44, 90.653, 90.000



44, 90.653, 220.000



44, 90.653, 270.000

Sweetspot

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



44, 90.636, 40.000



80, 30.038, 21.948



50, 100.163, 328.233



40, 20.813, 22.504



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



44, 90.636, 40.000



53, 104.576, 40.000



56, 74.015, 60.230



41, 4.460, 19.927



35, 76.455, 39.864



4, 20.018, 19.467

Inverse Universe

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



77, 43.435, 196.386



91, 50.115, 196.386



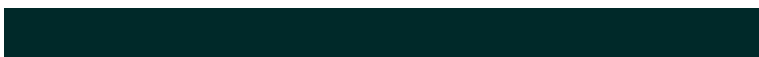
45, 63.150, 284.502



43, 4.203, 198.975



62, 36.712, 196.386



14, 14.038, 196.386

Previews

White Background



This preview shows how the CIE LCh color 44, 90.653, 40.000 looks on a white background.

Color Contrast Check

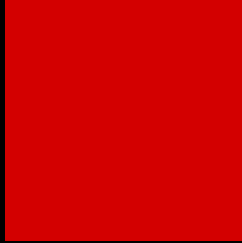
Large Text (above 18pt) WCAG AA ✓ Pass

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 44, 90.653, 40.000 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 44, 90.653, 40.000

Background



This preview shows how black text looks on a background with the CIELCh color 44, 90.653, 40.000.



This preview shows how white text looks on a background with the CIELCh color 44, 90.653, 40.000.

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

44, 90.653, 40.000

Protanopia

45, 44.049, 95.562

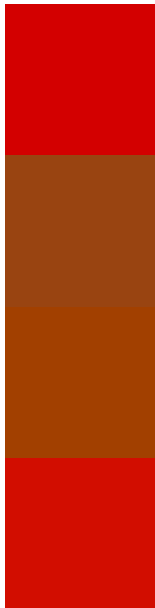
Deuteranopia

45, 52.156, 84.336



Tritanopia
44, 88.584, 40.997

Trichromacy



Original Color
44, 90.653, 40.000

Protanomaly
39, 55.208, 53.504

Deuteranomaly
40, 63.712, 53.204

Tritanomaly
44, 89.506, 40.567

Monochromacy



Original Color
44, 90.653, 40.000

Achromatopsia
27, 0.004, 296.813

Achromatomaly
28, 38.366, 28.235

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 44, 90.653, 40.000 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(211, 0, 0)` looks like.

```
.text, #text, p{  
    color:rgb(211, 0, 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(211, 0, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(211, 0, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 44, 90.653, 40.000 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(211, 0, 0) }
```

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

```
.border{ border-color:rgb(211, 0, 0) }
```

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

Here you see how a box with a 4 pixel rgb(211, 0, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(211, 0, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(211, 0, 0); box-shadow:4px  
4px 4px 4px rgb(211, 0, 0) }
```

Background

The CSS property to change the background color of an element to CIELCh 44, 90.653, 40.000 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(211, 0, 0) }
```

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

```
.background{ background-color: rgb(211, 0,  
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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