

Converting Colors

CIELCh(46, 89.472, 37.137)

Have a look what the booklet for
CIELCh(46, 89.472, 37.137) contains.

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Color

CIELCh(46, 89.365, 37.133)

Conversions

Conversions Part 1

Format	Color
Hex	DB0513
RGB	219, 5, 19
RGB Percent	86%, 2%, 7%
CMY	0.1399, 0.9802, 0.9245
CMYK	0.00, 0.98, 0.91, 0.14
HSL	356°, 95%, 44%
HSV	356°, 98%, 86%
XYZ	29.4885, 15.2687, 2.0205
YIQ	70.5820, 123.0500, 49.7220

Conversions

Conversions Part 2

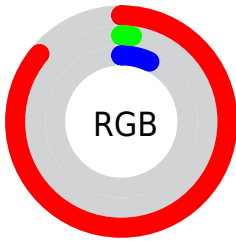
Format	Color
RYB	219, 5, 19
Decimal	14353683
CIELab	46.00, 71.25, 53.95
CIELCh	46, 89.365, 37.133
Yxy	15.2687, 0.6304, 0.3264
Android (android.graphics.Color)	4292543763 (0xFFDB0513)
YUV	70.5820, -25.4299, 130.1626
Hunter-Lab	39.0751, 66.3254, 24.2868

Details

The CIELCh color **46, 89.365, 37.133** 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 **79, 47.212, 186.833**, and the grayscale version is **30, 0.005, 296.813**.

A 20% lighter version of the original color is **61, 77.306, 37.373**, and **32, 71.300, 39.555** is the 20% darker color. If you saturate the color by 10%, you get **46, 90.652, 37.812**, and if you desaturate by 10%, it is **47, 82.479, 33.162**.

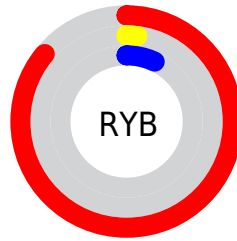
Distribution



Red (86%)

Green (2%)

Blue (7%)



Red (86%)

Yellow (2%)

Blue (7%)

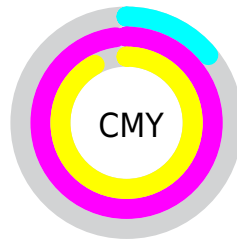


Cyan (0%)

Magenta (98%)

Yellow (91%)

Black (14%)



Cyan (14%)

Magenta (98%)

Yellow (92%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 46, 89.365, 37.133 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, 89.365, 37.133 by changing the saturation by 10% instead.

 46, 89.365, 37.133

 46, 89.365, 37.133

 100, 89.365,
37.133

 36, 89.365, 37.133

 66, 89.365, 37.133

 26, 89.365, 37.133

 76, 89.365, 37.133

 16, 89.365, 37.133

 86, 89.365, 37.133

 6, 89.365, 37.133

 96, 89.365, 37.133

 0, 89.365, 37.133

 46, 89.365, 37.133

 46, 89.365, 37.133

 46, 90.652, 37.812

 47, 82.479, 33.162

 49, 73.897, 28.958

■ 52, 64.361, 25.249

■ 56, 54.283, 22.228

■ 61, 44.022, 19.850

■ 66, 33.899, 17.995

■ 71, 24.152, 16.540

■ 77, 14.920, 15.381

■ 83, 6.265, 14.409

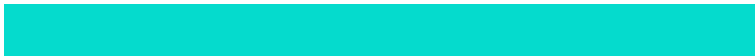
Harmonies

Complementary

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



46, 89.365, 37.133



79, 47.212, 186.833

Rectangle

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



46, 89.365, 37.133



46, 89.365, 87.133



46, 89.365, 217.133



46, 89.365, 267.133

Sweetspot

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



46, 89.362, 37.135



81, 28.721, 16.744



50, 103.083, 325.633



40, 19.975, 17.349



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, 89.362, 37.135



53, 101.954, 38.102



56, 77.423, 55.498



43, 4.649, 14.572



36, 75.509, 37.221



5, 23.753, 17.410

Inverse Universe

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



46, 89.362, 37.135



53, 101.954, 38.102



52, 55.634, 276.215



43, 4.649, 14.572



36, 75.509, 37.221



5, 23.753, 17.410

Previews

White Background



This preview shows how the CIELCh color 46, 89.365, 37.133 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, 89.365, 37.133 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, 89.365, 37.133

Background



This preview shows how black text looks on a background with the CIELCh color 46, 89.365, 37.133.



This preview shows how white text looks on a background with the CIELCh color 46, 89.365, 37.133.

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, 89.308, 37.176

Protanopia

47, 41.131, 95.654

Deuteranopia

47, 53.757, 83.917



Tritanopia
46, 91.561, 40.907

Trichromacy



Original Color
46, 89.308, 37.176

Protanomaly
41, 52.479, 50.164

Deuteranomaly
42, 63.758, 52.802

Tritanomaly
46, 90.666, 39.583

Monochromacy



Original Color
46, 89.308, 37.176

Achromatopsia
30, 0.005, 296.813

Achromatomaly
31, 37.244, 22.935

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 46, 89.365, 37.133 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(219, 5, 19)` looks like.

```
.text, #text, p{  
    color:rgb(219, 5, 19)  
}
```

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(219, 5, 19) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(219, 5, 19) }
```

Border

The CSS property to change the border of an element to CIELCh 46, 89.365, 37.133 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(219, 5, 19) }
```

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

```
.border{ border-color:rgb(219, 5, 19) }
```

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

Here you see how a box with a 4 pixel rgb(219, 5, 19) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(219, 5, 19); -webkit-box-  
shadow:4px 4px 4px 4px rgb(219, 5, 19);  
box-shadow:4px 4px 4px 4px rgb(219, 5, 19)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 46, 89.365, 37.133 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(219, 5, 19) }
```

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

```
.background{ background-color: rgb(219, 5,  
19) }
```

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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