

Converting Colors

CIELCh(46, 89.723, 36.997)

Have a look what the booklet for
CIELCh(46, 89.723, 36.997) contains.

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Color

CIELCh(46, 89.818, 37.075)

Conversions

Conversions Part 1

Format	Color
Hex	DC0213
RGB	220, 2, 19
RGB Percent	86%, 1%, 7%
CMY	0.1379, 0.9939, 0.9260
CMYK	0.00, 0.99, 0.91, 0.14
HSL	355°, 99%, 43%
HSV	355°, 99%, 86%
XYZ	29.5973, 15.2687, 1.9976
YIQ	69.1200, 124.4710, 51.5030

Conversions

Conversions Part 2

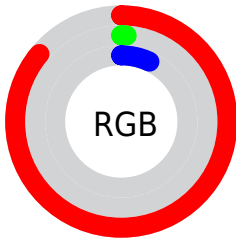
Format	Color
RYB	220, 2, 19
Decimal	14418451
CIELab	46.00, 71.66, 54.15
CIELCh	46, 89.818, 37.075
Yxy	15.2687, 0.6316, 0.3258
Android (android.graphics.Color)	4292608531 (0xFFDC0213)
YUV	69.1200, -24.7092, 132.3218
Hunter-Lab	39.0751, 66.8227, 24.3216

Details

The CIELCh color **46, 89.818, 37.075** 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, 48.090, 184.917**, and the grayscale version is **29, 0.005, 296.813**.

A 20% lighter version of the original color is **61, 77.527, 37.099**, and **32, 71.300, 39.555** is the 20% darker color. If you saturate the color by 10%, you get **46, 90.215, 37.292**, and if you desaturate by 10%, it is **47, 83.194, 33.065**.

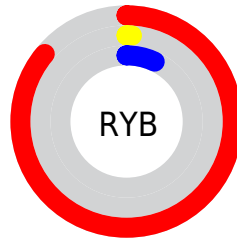
Distribution



Red (86%)

Green (1%)

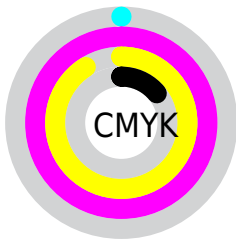
Blue (7%)



Red (86%)

Yellow (1%)

Blue (7%)

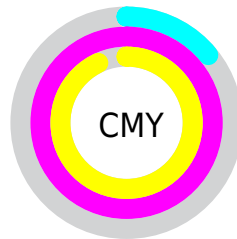


Cyan (0%)

Magenta (99%)

Yellow (91%)

Black (14%)



Cyan (14%)

Magenta (99%)

Yellow (93%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 46, 89.818, 37.075 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, 89.818, 37.075 by changing the saturation by 10% instead.

■ 46, 89.818, 37.075

■ 46, 89.818, 37.075

■ 100, 89.818,
37.075

■ 36, 89.818, 37.075

■ 66, 89.818, 37.075

■ 26, 89.818, 37.075

■ 76, 89.818, 37.075

■ 16, 89.818, 37.075

■ 86, 89.818, 37.075

■ 6, 89.818, 37.075

■ 96, 89.818, 37.075

■ 0, 89.818, 37.075

■ 46, 89.818, 37.075

■ 46, 89.818, 37.075

■ 46, 90.215, 37.292

■ 47, 83.194, 33.065

■ 49, 74.937, 28.723

■ 52, 65.674, 24.866

■ 55, 55.783, 21.711

■ 60, 45.618, 19.219

■ 65, 35.510, 17.271

■ 70, 25.716, 15.741

■ 76, 16.399, 14.519

■ 82, 7.636, 13.506

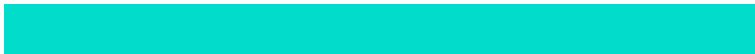
Harmonies

Complementary

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



46, 89.818, 37.075



79, 48.090, 184.917

Rectangle

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



46, 89.818, 37.075



46, 89.818, 87.075



46, 89.818, 217.075



46, 89.818, 267.075

Sweetspot

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



46, 89.815, 37.077



80, 29.791, 15.872



49, 103.716, 324.966



40, 20.585, 16.493



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, 89.815, 37.077



53, 101.313, 37.607



55, 79.158, 53.951



43, 4.656, 13.519



36, 74.977, 36.644



5, 23.743, 16.844

Inverse Universe

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



46, 89.815, 37.077



53, 101.313, 37.607



53, 54.668, 274.868



43, 4.656, 13.519



36, 74.977, 36.644



5, 23.743, 16.844

Previews

White Background



This preview shows how the CIELCh color 46, 89.818, 37.075 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, 89.818, 37.075 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, 89.818, 37.075

Background



This preview shows how black text looks on a background with the CIELCh color 46, 89.818, 37.075.



This preview shows how white text looks on a background with the CIELCh color 46, 89.818, 37.075.

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, 89.818, 37.075

Protanopia

47, 41.131, 95.654

Deuteranopia

47, 53.757, 83.917



Tritanopia
46, 91.561, 40.907

Trichromacy



Original Color
46, 89.818, 37.075

Protanomaly
41, 52.662, 49.592

Deuteranomaly
42, 64.162, 51.980

Tritanomaly
46, 91.140, 39.487

Monochromacy



Original Color
46, 89.818, 37.075

Achromatopsia
29, 0.005, 296.813

Achromatomaly
30, 38.040, 21.796

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 46, 89.818, 37.075 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(220, 2, 19)` looks like.

```
.text, #text, p{  
    color:rgb(220, 2, 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(220, 2, 19) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(220, 2, 19) }
```

Border

The CSS property to change the border of an element to CIELCh 46, 89.818, 37.075 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(220, 2, 19) }
```

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

```
.border{ border-color:rgb(220, 2, 19) }
```

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

Here you see how a box with a 4 pixel `rgb(220, 2, 19)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(220, 2, 19); -webkit-box-  
shadow:4px 4px 4px 4px rgb(220, 2, 19);  
box-shadow:4px 4px 4px 4px rgb(220, 2, 19)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 46, 89.818, 37.075 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(220, 2, 19) }
```

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

```
.background{ background-color: rgb(220, 2,  
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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