

Converting Colors

CIELCh(44, 94.135, 32.306)

Have a look what the booklet for
CIELCh(44, 94.135, 32.306) contains.

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Color

CIELCh(46, 89.204, 35.742)

Conversions

Conversions Part 1

Format	Color
Hex	DD0018
RGB	221, 0, 24
RGB Percent	87%, 0%, 9%
CMY	0.1352, 1.0000, 0.9061
CMYK	0.00, 1.00, 0.89, 0.14
HSL	353°, 100%, 43%
HSV	353°, 100%, 86%
XYZ	29.7921, 15.2687, 2.2385
YIQ	68.8150, 124.0120, 54.3160

Conversions

Conversions Part 2

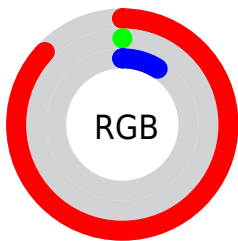
Format	Color
RYB	221, 0, 24
Decimal	14483480
CIELab	46.00, 72.40, 52.11
CIELCh	46, 89.204, 35.742
Yxy	15.2687, 0.6299, 0.3228
Android (android.graphics.Color)	4292673560 (0xFFDD0018)
YUV	68.8150, -22.0938, 133.4662
Hunter-Lab	39.0751, 67.7125, 23.9561

Details

The CIELCh color **46, 89.204, 35.742** 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, 49.884, 181.023**, and the grayscale version is **29, 0.005, 296.813**.

A 20% lighter version of the original color is **61, 76.430, 35.787**, and **32, 72.036, 39.611** is the 20% darker color. If you saturate the color by 10%, you get **46, 88.955, 35.931**, and if you desaturate by 10%, it is **47, 82.410, 31.539**.

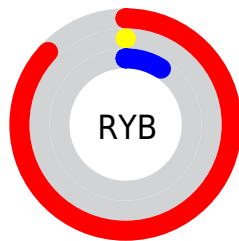
Distribution



Red (87%)

Green (0%)

Blue (9%)



Red (87%)

Yellow (0%)

Blue (9%)

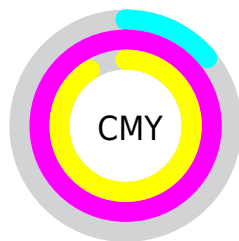


Cyan (0%)

Magenta (100%)

Yellow (89%)

Black (14%)



Cyan (14%)

Magenta (100%)

Yellow (91%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 46, 89.204, 35.742 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, 89.204, 35.742 by changing the saturation by 10% instead.

 46, 89.204, 35.742

 46, 89.204, 35.742

 100, 89.204,
35.742

 36, 89.204, 35.742

 66, 89.204, 35.742

 26, 89.204, 35.742

 76, 89.204, 35.742

 16, 89.204, 35.742

 86, 89.204, 35.742

 6, 89.204, 35.742

 96, 89.204, 35.742

 0, 89.204, 35.742

 46, 89.204, 35.742

 46, 89.204, 35.742

 46, 88.955, 35.931

 47, 82.410, 31.539

 49, 74.561, 26.975

■ 52, 65.715, 22.989

■ 55, 56.154, 19.746

■ 60, 46.208, 17.184

■ 65, 36.219, 15.173

■ 70, 26.463, 13.583

■ 76, 17.123, 12.303

■ 82, 8.293, 11.237

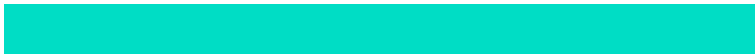
Harmonies

Complementary

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



46, 89.204, 35.742



79, 49.884, 181.023

Rectangle

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



46, 89.204, 35.742



46, 89.204, 85.742



46, 89.204, 215.742



46, 89.204, 265.742

Sweetspot

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



46, 88.955, 35.931



80, 29.793, 13.617



48, 104.446, 323.679



40, 20.564, 14.253



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, 88.955, 35.931



53, 99.697, 36.295



54, 81.254, 51.613



43, 4.678, 11.180



36, 73.693, 35.171



5, 23.726, 15.578

Inverse Universe

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



46, 88.955, 35.931



53, 99.697, 36.295



55, 51.518, 270.622



43, 4.678, 11.180



36, 73.693, 35.171



5, 23.726, 15.578

Previews

White Background



This preview shows how the CIELCh color 46, 89.204, 35.742 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, 89.204, 35.742 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, 89.204, 35.742

Background



This preview shows how black text looks on a background with the CIELCh color 46, 89.204, 35.742.



This preview shows how white text looks on a background with the CIELCh color 46, 89.204, 35.742.

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, 89.105, 35.938

Protanopia

47, 39.180, 96.281

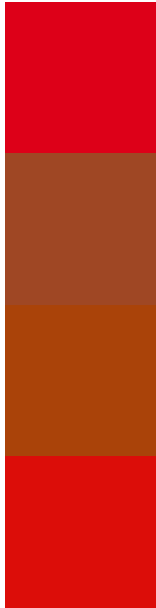
Deuteranopia

47, 54.064, 84.060



Tritanopia
46, 91.890, 40.897

Trichromacy



Original Color
46, 89.105, 35.938

Protanomaly
41, 50.928, 47.604

Deuteranomaly
42, 64.130, 51.489

Tritanomaly
46, 91.128, 39.211

Monochromacy



Original Color
46, 89.105, 35.938

Achromatopsia
29, 0.005, 296.813

Achromatomaly
30, 37.754, 19.940

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 46, 89.204, 35.742 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(221, 0, 24)` looks like.

```
.text, #text, p{  
    color:rgb(221, 0, 24)  
}
```

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(221, 0, 24) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(221, 0, 24) }
```

Border

The CSS property to change the border of an element to CIELCh 46, 89.204, 35.742 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(221, 0, 24) }
```

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

```
.border{ border-color:rgb(221, 0, 24) }
```

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

Here you see how a box with a 4 pixel rgb(221, 0, 24) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(221, 0, 24); -webkit-box-  
shadow:4px 4px 4px 4px rgb(221, 0, 24);  
box-shadow:4px 4px 4px 4px rgb(221, 0, 24)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 46, 89.204, 35.742 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(221, 0, 24) }
```

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

```
.background{ background-color: rgb(221, 0,  
24) }
```

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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