

Converting Colors

CIELCh(46, 90.967, 38.093)

Have a look what the booklet for
CIELCh(46, 90.967, 38.093) contains.

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Color

CIELCh(46, 91.059, 38.165)

Conversions

Conversions Part 1

Format	Color
Hex	DC020D
RGB	220, 2, 13
RGB Percent	86%, 1%, 5%
CMY	0.1376, 0.9930, 0.9493
CMYK	0.00, 0.99, 0.94, 0.14
HSL	357°, 98%, 43%
HSV	357°, 99%, 86%
XYZ	29.5797, 15.2687, 1.7663
YIQ	68.4360, 126.3970, 49.6370

Conversions

Conversions Part 2

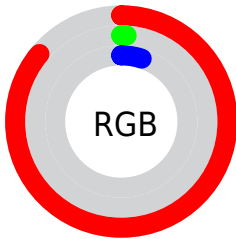
Format	Color
RYB	220, 2, 13
Decimal	14418445
CIELab	46.00, 71.59, 56.27
CIElCh	46, 91.059, 38.165
Yxy	15.2687, 0.6346, 0.3276
Android (android.graphics.Color)	4292608525 (0xFFDC020D)
YUV	68.4360, -27.3299, 132.9216
Hunter-Lab	39.0751, 66.7421, 24.6726

Details

The CIELCh color **46, 91.059, 38.165** 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, 46.728, 188.835**, and the grayscale version is **29, 0.005, 296.813**.

A 20% lighter version of the original color is **61, 78.650, 38.348**, and **32, 71.300, 39.555** is the 20% darker color. If you saturate the color by 10%, you get **46, 91.470, 38.357**, and if you desaturate by 10%, it is **47, 84.604, 34.675**.

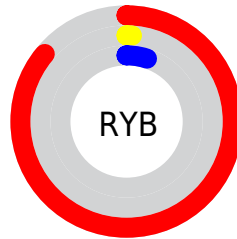
Distribution



Red (86%)

Green (1%)

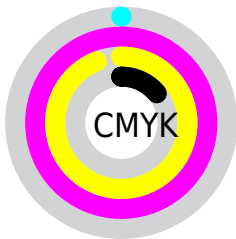
Blue (5%)



Red (86%)

Yellow (1%)

Blue (5%)

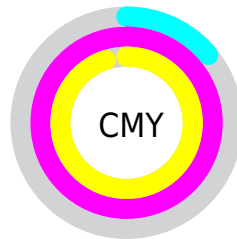


Cyan (0%)

Magenta (99%)

Yellow (94%)

Black (14%)



Cyan (14%)

Magenta (99%)

Yellow (95%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 46, 91.059, 38.165 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, 91.059, 38.165 by changing the saturation by 10% instead.

 46, 91.059, 38.165  46, 91.059, 38.165

 100, 91.059,
38.165  36, 91.059, 38.165

 66, 91.059, 38.165  26, 91.059, 38.165

 76, 91.059, 38.165  16, 91.059, 38.165

 86, 91.059, 38.165  6, 91.059, 38.165

 96, 91.059, 38.165  0, 91.059, 38.165

 46, 91.059, 38.165  46, 91.059, 38.165

 46, 91.470, 38.357  47, 84.604, 34.675

 49, 76.064, 30.577

■ 52, 66.431, 26.833

■ 55, 56.220, 23.741

■ 60, 45.813, 21.297

■ 65, 35.541, 19.394

■ 70, 25.650, 17.912

■ 76, 16.289, 16.741

■ 82, 7.522, 15.780

Harmonies

Complementary

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



46, 91.059, 38.165



79, 46.728, 188.835

Rectangle

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



46, 91.059, 38.165



46, 91.059, 88.165



46, 91.059, 218.165



46, 91.059, 268.165

Sweetspot

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



46, 91.056, 38.167



80, 29.838, 18.053



50, 103.583, 325.610



40, 20.638, 18.655



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, 91.056, 38.167



53, 102.623, 38.606



56, 78.425, 55.153



43, 4.643, 15.803



36, 76.094, 37.835



5, 23.769, 18.070

Inverse Universe

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



46, 91.056, 38.167



53, 102.623, 38.606



52, 56.531, 276.930



43, 4.643, 15.803



36, 76.094, 37.835



5, 23.769, 18.070

Previews

White Background



This preview shows how the CIELCh color 46, 91.059, 38.165 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, 91.059, 38.165 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, 91.059, 38.165

Background



This preview shows how black text looks on a background with the CIELCh color 46, 91.059, 38.165.



This preview shows how white text looks on a background with the CIELCh color 46, 91.059, 38.165.

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, 91.059, 38.165

Protanopia

47, 43.307, 95.761

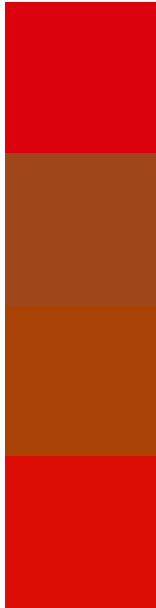
Deuteranopia

47, 53.757, 83.917



Tritanopia
46, 91.561, 40.907

Trichromacy



Original Color
46, 91.059, 38.165

Protanomaly
41, 54.346, 51.319

Deuteranomaly
42, 64.598, 52.314

Tritanomaly
46, 91.498, 39.774

Monochromacy



Original Color
46, 91.059, 38.165

Achromatopsia
29, 0.005, 296.813

Achromatomaly
30, 38.102, 24.375

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 46, 91.059, 38.165 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, 13)` looks like.

```
.text, #text, p{  
  color:rgb(220, 2, 13)  
}
```

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, 13) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(220, 2, 13) }
```

Border

The CSS property to change the border of an element to CIELCh 46, 91.059, 38.165 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, 13) }
```

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

```
.border{ border-color:rgb(220, 2, 13) }
```

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, 13)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(220, 2, 13); -webkit-box-  
shadow:4px 4px 4px 4px rgb(220, 2, 13);  
box-shadow:4px 4px 4px 4px rgb(220, 2, 13)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 46, 91.059, 38.165 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, 13) }
```

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

```
.background{ background-color: rgb(220, 2,  
13) }
```

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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