

Converting Colors

CIELCh(45, 81.472, 35.539)

Have a look what the booklet for
CIELCh(45, 81.472, 35.539) contains.

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Color

CIELCh(45, 81.667, 35.658)

Conversions

Conversions Part 1

Format	Color
Hex	D21B1E
RGB	210, 27, 30
RGB Percent	82%, 11%, 12%
CMY	0.1771, 0.8951, 0.8828
CMYK	0.00, 0.87, 0.86, 0.18
HSL	359°, 77%, 46%
HSV	359°, 87%, 82%
XYZ	27.1487, 14.5417, 2.5962
YIQ	82.0590, 108.1050, 39.7290

Conversions

Conversions Part 2

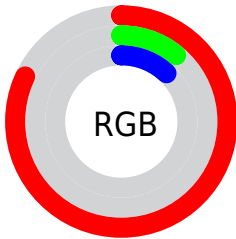
Format	Color
RYB	210, 27, 30
Decimal	13769502
CIELab	45.00, 66.36, 47.61
CIELCh	45, 81.667, 35.658
Yxy	14.5417, 0.6130, 0.3284
Android (android.graphics.Color)	4291959582 (0xFFD21B1E)
YUV	82.0590, -25.6651, 112.2043
Hunter-Lab	38.1336, 60.3471, 22.6569

Details

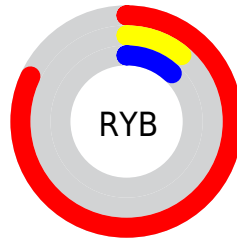
The CIELCh color **45, 81.667, 35.658** is a dark color, and the websafe version is hex **CC0000**. The color can be described as dark washed red. A complement of this color would be **77, 42.788, 194.124**, and the grayscale version is **35, 0.005, 296.813**.

A 20% lighter version of the original color is **62, 73.432, 35.447**, and **30, 68.310, 39.289** is the 20% darker color. If you saturate the color by 10%, you get **44, 88.105, 38.754**, and if you desaturate by 10%, it is **47, 72.887, 31.911**.

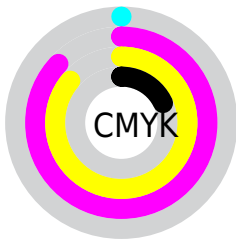
Distribution



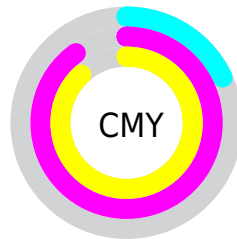
- Red (82%)
- Green (11%)
- Blue (12%)



- Red (82%)
- Yellow (11%)
- Blue (12%)



- Cyan (0%)
- Magenta (87%)
- Yellow (86%)
- Black (18%)


















- Cyan (18%)
- Magenta (90%)
- Yellow (88%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 45, 81.667, 35.658 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 45, 81.667, 35.658 by changing the saturation by 10% instead.

- | | |
|---|--|
|  45, 81.667, 35.658 |  45, 81.667, 35.658 |
|  100, 81.667, 35.658 |  35, 81.667, 35.658 |
|  65, 81.667, 35.658 |  25, 81.667, 35.658 |
|  75, 81.667, 35.658 |  15, 81.667, 35.658 |
|  85, 81.667, 35.658 |  5, 81.667, 35.658 |
|  95, 81.667, 35.658 |  0, 81.667, 35.658 |

- | | |
|--|--|
|  45, 81.667, 35.658 |  45, 81.667, 35.658 |
|  44, 88.105, 38.754 |  47, 72.887, 31.911 |
|  44, 89.536, 39.402 |  50, 63.068, 28.453 |

■ 54, 52.818, 25.597

■ 58, 42.532, 23.350

■ 63, 32.514, 21.614

■ 69, 22.967, 20.275

■ 74, 14.005, 19.229

■ 80, 5.664, 18.365

■ 86, 2.068, 198.106

Harmonies

Complementary

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



45, 81.667, 35.658



77, 42.788, 194.124

Rectangle

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



45, 81.667, 35.658



45, 81.667, 85.658



45, 81.667, 215.658



45, 81.667, 265.658

Sweetspot

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



45, 81.664, 35.660



83, 25.584, 20.164



50, 96.738, 326.932



42, 17.564, 20.584



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



45, 81.664, 35.660



53, 103.901, 39.530



57, 67.714, 60.648



41, 4.459, 18.547



35, 75.742, 39.172



4, 20.016, 18.671

Inverse Universe

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



45, 81.664, 35.660



53, 103.901, 39.530



51, 51.616, 275.073



41, 4.459, 18.547



35, 75.742, 39.172



4, 20.016, 18.671

Previews

White Background



This preview shows how the CIELCh color 45, 81.667, 35.658 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 45, 81.667, 35.658 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 45, 81.667, 35.658

Background



This preview shows how black text looks on a background with the CIELCh color 45, 81.667, 35.658.



This preview shows how white text looks on a background with the CIELCh color 45, 81.667, 35.658.

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

45, 81.667, 35.658

Protanopia

46, 34.852, 95.720

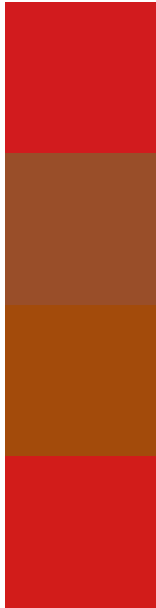
Deuteranopia

45, 52.648, 83.976



Tritanopia
45, 83.100, 37.355

Trichromacy



Original Color
45, 81.667, 35.658

Protanomaly
42, 45.293, 51.222

Deuteranomaly
43, 59.467, 56.110

Tritanomaly
45, 82.593, 36.851

Monochromacy



Original Color
45, 81.667, 35.658

Achromatopsia
35, 0.005, 296.813

Achromatomaly
35, 31.230, 23.960

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 45, 81.667, 35.658 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(210, 27, 30)` looks like.

```
.text, #text, p{  
    color:rgb(210, 27, 30)  
}
```

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(210, 27, 30) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(210, 27, 30) }
```

Border

The CSS property to change the border of an element to CIELCh 45, 81.667, 35.658 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(210, 27, 30) }
```

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

```
.border{ border-color:rgb(210, 27, 30) }
```

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

Here you see how a box with a 4 pixel `rgb(210, 27, 30)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(210, 27, 30); -webkit-box-  
shadow:4px 4px 4px 4px rgb(210, 27, 30);  
box-shadow:4px 4px 4px 4px rgb(210, 27,  
30) }
```

Background

The CSS property to change the background color of an element to CIELCh 45, 81.667, 35.658 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(210, 27, 30) }
```

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

```
.background{ background-color: rgb(210, 27,  
30) }
```

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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