

Converting Colors

CIELCh(11, 50.391, 7.134)

Have a look what the booklet for
CIELCh(11, 50.391, 7.134) contains.

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Color

CIELCh(15, 38.581, 18.311)

Conversions

Conversions Part 1

Format	Color
Hex	530017
RGB	83, 0, 23
RGB Percent	33%, 0%, 9%
CMY	0.6728, 1.0000, 0.9114
CMYK	0.00, 1.00, 0.73, 0.67
HSL	344°, 100%, 16%
HSV	344°, 100%, 33%
XYZ	3.7521, 1.9086, 0.9607
YIQ	27.4390, 42.0850, 24.7490

Conversions

Conversions Part 2

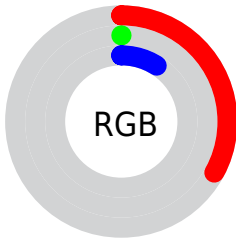
Format	Color
R_{YB}	83, 0, 23
Decimal	5439511
CIE Lab	15.00, 36.63, 12.12
CIE LCh	15, 38.581, 18.311
Yxy	1.9086, 0.5667, 0.2882
Android (android.graphics.Color)	4283629591 (0xFF530017)
YUV	27.4390, -2.1884, 48.7270
Hunter-Lab	13.8151, 24.3030, 5.5477

Details

The CIELCh color **15, 38.581, 18.311** is a dark color, and the websafe version is hex **330000**. A complement of this color would be **31, 29.404, 166.121**, and the grayscale version is **10, 0.003, 296.813**.

A 20% lighter version of the original color is **35, 38.243, 18.310**, and **2, 10.621, 17.229** is the 20% darker color. If you saturate the color by 10%, you get **15, 38.439, 18.503**, and if you desaturate by 10%, it is **16, 35.342, 15.035**.

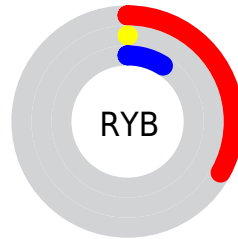
Distribution



Red (33%)

Green (0%)

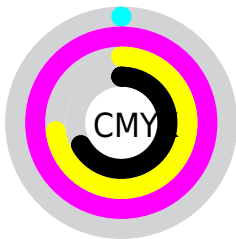
Blue (9%)



Red (33%)

Yellow (0%)

Blue (9%)

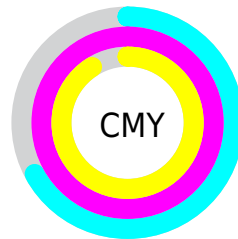


Cyan (0%)

Magenta (100%)

Yellow (73%)

Black (67%)



Cyan (67%)

Magenta (100%)

Yellow (91%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 15, 38.581, 18.311 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 15, 38.581, 18.311 by changing the saturation by 10% instead.

 15, 38.581, 18.311

 15, 38.581, 18.311

 100, 38.581,
18.311

 5, 38.581, 18.311

 35, 38.581, 18.311

 0, 38.581, 18.311

 45, 38.581, 18.311

 55, 38.581, 18.311

 65, 38.581, 18.311

 75, 38.581, 18.311

 85, 38.581, 18.311

 95, 38.581, 18.311

15, 38.581, 18.311

15, 38.581, 18.311

15, 38.439, 18.503

16, 35.342, 15.035

17, 32.389, 11.351

19, 28.915, 8.345

21, 25.014, 5.923

23, 20.842, 3.959

25, 16.547, 2.344

28, 12.248, 0.992

30, 8.027, 359.835

33, 3.936, 358.812

Harmonies

Complementary

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



15, 38.581, 18.311



31, 29.404, 166.121

Rectangle

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



15, 38.581, 18.311



15, 38.581, 68.311



15, 38.581, 198.311



15, 38.581, 248.311

Sweetspot

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



15, 38.439, 18.503



36, 15.370, 1.126



13, 52.786, 318.626



17, 10.610, 1.458



75, 0.009, 296.813



24, 0.004, 296.813

Same Dimension

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



15, 38.439, 18.503



22, 46.989, 20.703



17, 39.002, 41.405



15, 2.154, 358.683



20, 45.353, 20.355



49, 83.374, 24.605

Inverse Universe

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



15, 38.439, 18.503



22, 46.989, 20.703



25, 19.499, 235.473



15, 2.154, 358.683



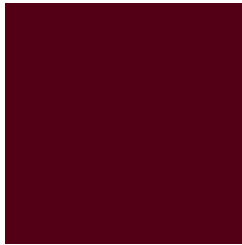
20, 45.353, 20.355



49, 83.374, 24.605

Previews

White Background



This preview shows how the CIELCh color 15, 38.581, 18.311 looks on a white background.

Color Contrast Check

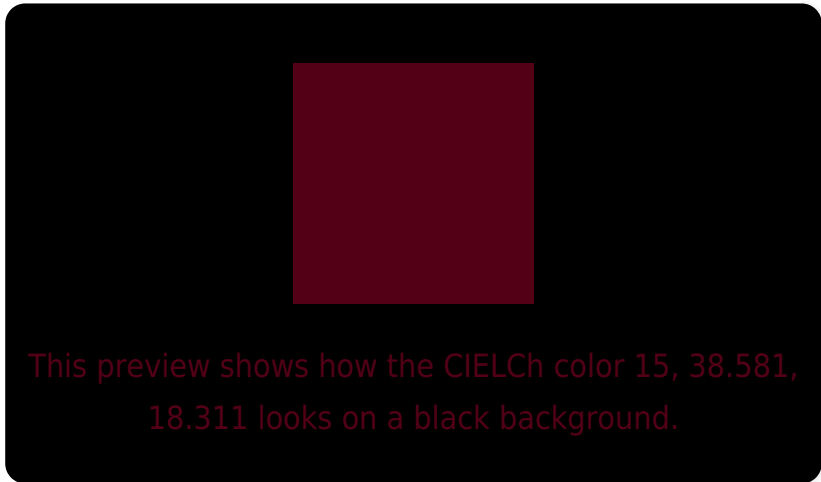
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

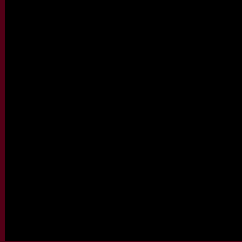
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 15, 38.581, 18.311

Background



This preview shows how black text looks on a background with the CIELCh color 15, 38.581, 18.311.



This preview shows how white text looks on a background with the CIELCh color 15, 38.581, 18.311.

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

15, 38.204, 17.920

Protanopia

17, 5.738, 93.241

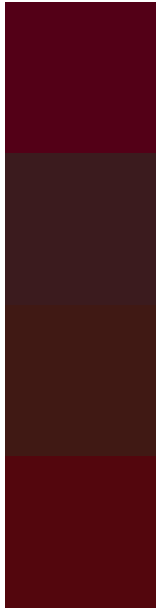
Deuteranopia

17, 16.852, 80.403



Tritanopia
16, 39.059, 33.233

Trichromacy



Original Color
15, 38.204, 17.920

Protanomaly
14, 16.865, 17.569

Deuteranomaly
15, 22.401, 34.197

Tritanomaly
15, 38.584, 28.679

Monochromacy



Original Color
15, 38.204, 17.920

Achromatopsia
10, 0.003, 296.813

Achromatomaly
10, 16.411, 5.507

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 15, 38.581, 18.311 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(83, 0, 23)` looks like.

```
.text, #text, p{  
    color:rgb(83, 0, 23)  
}
```

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(83, 0, 23) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(83, 0, 23) }
```

Border

The CSS property to change the border of an element to CIELCh 15, 38.581, 18.311 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(83, 0, 23) }
```

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

```
.border{ border-color:rgb(83, 0, 23) }
```

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

Here you see how a box with a 4 pixel rgb(83, 0, 23) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(83, 0, 23); -webkit-box-shadow:4px  
4px 4px 4px rgb(83, 0, 23); box-shadow:4px  
4px 4px 4px rgb(83, 0, 23) }
```

Background

The CSS property to change the background color of an element to CIELCh 15, 38.581, 18.311 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(83, 0, 23) }
```

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

```
.background{ background-color: rgb(83, 0,  
23) }
```

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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