

Converting Colors

CIELCh(23, 71.103, 50.108)

Have a look what the booklet for
CIELCh(23, 71.103, 50.108) contains.

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Color

CIELCh(23, 57.241, 37.637)

Conversions

Conversions Part 1

Format	Color
Hex	750000
RGB	117, 0, 0
RGB Percent	46%, 0%, 0%
CMY	0.5392, 1.0000, 1.0000
CMYK	0.00, 1.00, 1.00, 0.54
HSL	0°, 100%, 23%
HSV	0°, 100%, 46%
XYZ	7.3928, 3.8003, 0.3286
YIQ	34.9830, 69.7320, 24.8040

Conversions

Conversions Part 2

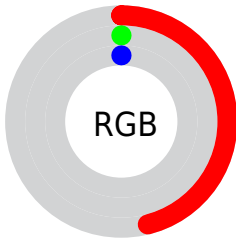
Format	Color
RYB	117, 0, 0
Decimal	7667712
CIELab	23.00, 45.33, 34.95
CIELCh	23, 57.241, 37.637
Yxy	3.8003, 0.6416, 0.3298
Android (android.graphics.Color)	4285857792 (0xFF750000)
YUV	34.9830, -17.2466, 71.9289
Hunter-Lab	19.4944, 33.5768, 12.6466

Details

The CIELCh color **23, 57.241, 37.637** is a dark color, and the websafe version is hex **660000**. A complement of this color would be **44, 28.271, 196.386**, and the grayscale version is **14, 0.003, 296.813**.

A 20% lighter version of the original color is **43, 57.043, 37.929**, and **9, 31.528, 24.955** is the 20% darker color. If you saturate the color by 10%, you get **23, 57.034, 37.595**, and if you desaturate by 10%, it is **24, 52.942, 35.738**.

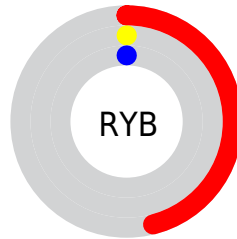
Distribution



Red (46%)

Green (0%)

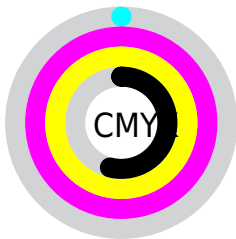
Blue (0%)



Red (46%)

Yellow (0%)

Blue (0%)

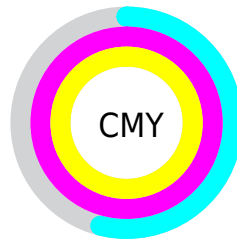


Cyan (0%)

Magenta (100%)

Yellow (100%)

Black (54%)



Cyan (54%)

Magenta (100%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 23, 57.241, 37.637 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 23, 57.241, 37.637 by changing the saturation by 10% instead.

■ 23, 57.241, 37.637

■ 23, 57.241, 37.637

■ 100, 57.241,
37.637

■ 13, 57.241, 37.637

■ 43, 57.241, 37.637

■ 3, 57.241, 37.637

■ 53, 57.241, 37.637

■ 0, 57.241, 37.637

■ 63, 57.241, 37.637

■ 73, 57.241, 37.637

■ 83, 57.241, 37.637

■ 93, 57.241, 37.637

■ 23, 57.241, 37.637

■ 23, 57.241, 37.637

23, 57.034, 37.595

24, 52.942, 35.738

25, 47.476, 32.600

27, 41.211, 29.423

30, 34.712, 26.770

32, 28.215, 24.658

35, 21.894, 23.013

39, 15.867, 21.738

42, 10.199, 20.742

46, 4.912, 19.937

Harmonies

Complementary

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



23, 57.241, 37.637



44, 28.271, 196.386

Rectangle

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



23, 57.241, 37.637



23, 57.241, 87.637



23, 57.241, 217.637



23, 57.241, 267.637

Sweetspot

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



23, 57.034, 37.595



50, 19.751, 21.824



27, 65.193, 328.233



24, 13.550, 22.217



82, 0.010, 296.813



33, 0.005, 296.813

Same Dimension

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



23, 57.034, 37.595



31, 70.930, 39.526



32, 47.677, 62.185



23, 2.751, 19.864



24, 59.042, 37.988



52, 102.987, 40.000

Inverse Universe

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



44, 28.271, 196.386



57, 34.226, 196.386



25, 39.177, 282.096



24, 2.606, 199.025



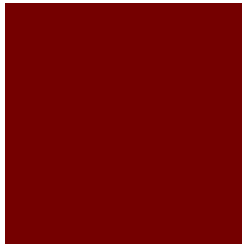
46, 29.111, 196.386



89, 49.354, 196.386

Previews

White Background



This preview shows how the CIELCh color 23, 57.241, 37.637 looks on a white background.

Color Contrast Check

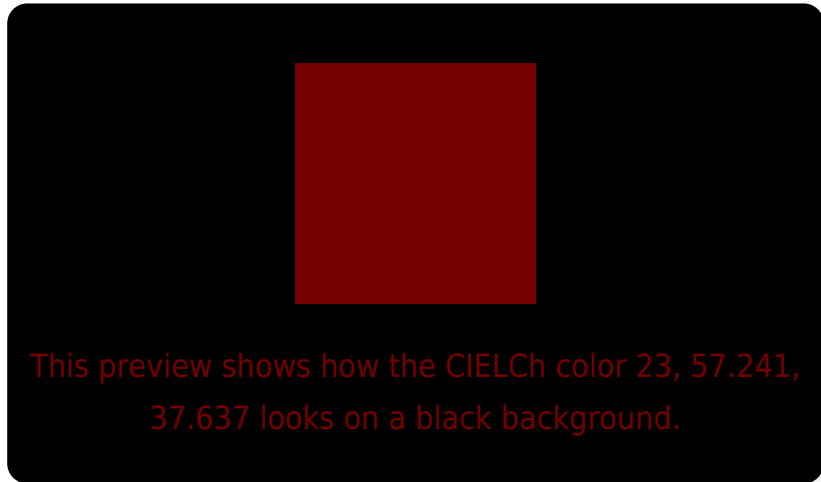
Large Text (above 18pt) WCAG AA ✓ Pass

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 23, 57.241, 37.637

Background



This preview shows how black text looks on a background with the CIELCh color 23, 57.241, 37.637.



This preview shows how white text looks on a background with the CIELCh color 23, 57.241, 37.637.

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

23, 56.829, 37.552

Protanopia

25, 27.464, 95.255

Deuteranopia

25, 34.050, 85.145



Tritanopia
24, 55.528, 39.677

Trichromacy



Original Color
23, 56.829, 37.552

Protanomaly
21, 33.380, 53.637

Deuteranomaly
22, 39.013, 54.094

Tritanomaly
23, 55.986, 38.905

Monochromacy



Original Color
23, 56.829, 37.552

Achromatopsia
14, 0.003, 296.813

Achromatomaly
14, 23.488, 26.987

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 23, 57.241, 37.637 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(117, 0, 0)` looks like.

```
.text, #text, p{  
    color:rgb(117, 0, 0)  
}
```

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(117, 0, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(117, 0, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 57.241, 37.637 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(117, 0, 0) }
```

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

```
.border{ border-color:rgb(117, 0, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(117, 0, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(117, 0, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(117, 0, 0); box-shadow:4px  
4px 4px 4px rgb(117, 0, 0) }
```

Background

The CSS property to change the background color of an element to CIELCh 23, 57.241, 37.637 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(117, 0, 0) }
```

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

```
.background{ background-color: rgb(117, 0,  
0) }
```

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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