

Converting Colors

CIELCh(20, 63.442, 33.329)

Have a look what the booklet for
CIELCh(20, 63.442, 33.329) contains.

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Color

CIELCh(23, 56.829, 37.552)

Conversions

Conversions Part 1

Format	Color
Hex	750000
RGB	117, 0, 0
RGB Percent	46%, 0%, 0%
CMY	0.5405, 0.9990, 0.9992
CMYK	0.00, 1.00, 1.00, 0.54
HSL	0°, 100%, 23%
HSV	0°, 100%, 46%
XYZ	7.3643, 3.8003, 0.3509
YIQ	34.9830, 69.7320, 24.8040

Conversions

Conversions Part 2

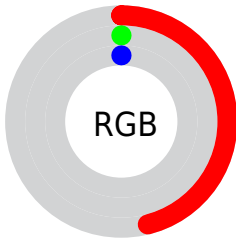
Format	Color
RYB	117, 0, 0
Decimal	7667712
CIELab	23.00, 45.05, 34.64
CIELCh	23, 56.829, 37.552
Yxy	3.8003, 0.6395, 0.3300
Android (android.graphics.Color)	4285857792 (0xFF750000)
YUV	34.9830, -17.2466, 71.9289
Hunter-Lab	19.4944, 33.3156, 12.5789

Details

The CIELCh color **23, 56.829, 37.552** is a dark color, and the websafe version is hex **660000**. A complement of this color would be **44, 28.181, 196.476**, 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, 56.895, 37.581**, and if you desaturate by 10%, it is **24, 52.741, 35.697**.

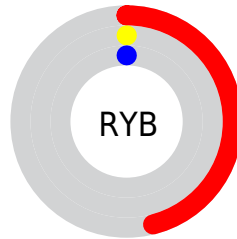
Distribution



Red (46%)

Green (0%)

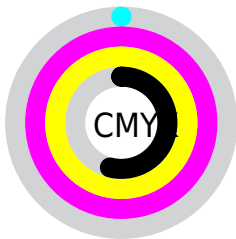
Blue (0%)



Red (46%)

Yellow (0%)

Blue (0%)

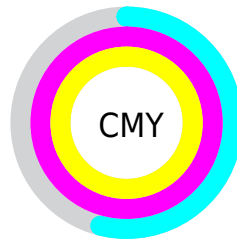


Cyan (0%)

Magenta (100%)

Yellow (100%)

Black (54%)



Cyan (54%)

Magenta (100%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 23, 56.829, 37.552 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, 56.829, 37.552 by changing the saturation by 10% instead.

■ 23, 56.829, 37.552

■ 23, 56.829, 37.552

■ 100, 56.829,
37.552

■ 13, 56.829, 37.552

■ 43, 56.829, 37.552

■ 3, 56.829, 37.552

■ 53, 56.829, 37.552

■ 0, 56.829, 37.552

■ 63, 56.829, 37.552

■ 73, 56.829, 37.552

■ 83, 56.829, 37.552

■ 93, 56.829, 37.552

■ 23, 56.829, 37.552

■ 23, 56.829, 37.552

■ 23, 56.895, 37.581

■ 24, 52.741, 35.697

■ 25, 47.260, 32.557

■ 27, 40.999, 29.397

■ 30, 34.512, 26.760

■ 32, 28.033, 24.663

■ 35, 21.732, 23.029

■ 39, 15.727, 21.762

■ 42, 10.081, 20.773

■ 46, 4.815, 19.972

Harmonies

Complementary

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



23, 56.829, 37.552



44, 28.181, 196.476

Rectangle

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



23, 56.829, 37.552



23, 56.829, 87.552



23, 56.829, 217.552



23, 56.829, 267.552

Sweetspot

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



23, 56.827, 37.554



50, 19.740, 21.868



27, 65.028, 328.230



24, 13.543, 22.259



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, 56.827, 37.554



31, 70.922, 39.535



32, 47.499, 62.213



23, 2.749, 19.912



24, 59.033, 38.001



52, 102.979, 40.004

Inverse Universe

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



44, 28.181, 196.476



57, 34.197, 196.477



25, 39.025, 282.021



24, 2.604, 199.076



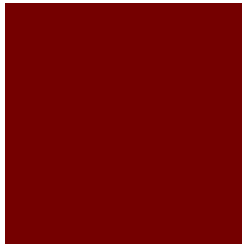
46, 29.086, 196.475



89, 49.310, 196.480

Previews

White Background



This preview shows how the CIELCh color 23, 56.829, 37.552 looks on a white background.

Color Contrast Check

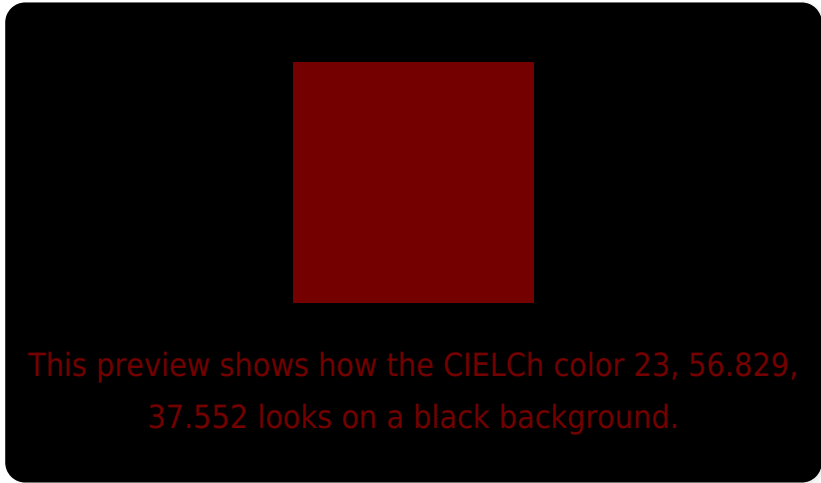
Large Text (above 18pt) WCAG AA ✓ Pass

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, 56.829, 37.552

Background



This preview shows how black text looks on a background with the CIELCh color 23, 56.829, 37.552.



This preview shows how white text looks on a background with the CIELCh color 23, 56.829, 37.552.

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, 27.371, 96.374

Deuteranopia

25, 33.845, 86.020



Tritanopia
24, 55.101, 39.635

Trichromacy



Original Color
23, 56.829, 37.552

Protanomaly
21, 33.380, 53.637

Deuteranomaly
22, 39.013, 54.094

Tritanomaly
23, 55.563, 38.846

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, 56.829, 37.552 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, 56.829, 37.552 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, 56.829, 37.552 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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