

Converting Colors

CIELCh(23, 48.610, 18.096)

Have a look what the booklet for
CIELCh(23, 48.610, 18.096) contains.

CIELCh(23, 48.378, 18.378)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	20
<i>Color Blindness Simulation</i>	23
<i>CSS Examples</i>	26

Color

CIELCh(23, 48.378, 18.378)

Conversions

Conversions Part 1

Format	Color
Hex	740023
RGB	116, 0, 35
RGB Percent	45%, 0%, 14%
CMY	0.5464, 1.0000, 0.8637
CMYK	0.00, 1.00, 0.70, 0.55
HSL	342°, 100%, 23%
HSV	342°, 100%, 45%
XYZ	7.4534, 3.8003, 1.9125
YIQ	38.6740, 57.9010, 35.4770

Conversions

Conversions Part 2

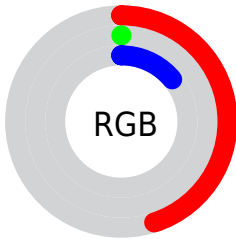
Format	Color
RYB	116, 0, 35
Decimal	7602211
CIELab	23.00, 45.91, 15.25
CIElCh	23, 48.378, 18.378
Yxy	3.8003, 0.5661, 0.2886
Android (android.graphics.Color)	4285792291 (0xFF740023)
YUV	38.6740, -1.8113, 67.8149
Hunter-Lab	19.4944, 34.1318, 7.8295

Details

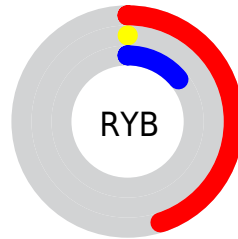
The CIELCh color **23, 48.378, 18.378** is a dark color, and the websafe version is hex **990033**. A complement of this color would be **43, 38.830, 162.791**, and the grayscale version is **15, 0.003, 296.813**.

A 20% lighter version of the original color is **43, 48.509, 18.315**, and **9, 31.983, 25.401** is the 20% darker color. If you saturate the color by 10%, you get **23, 48.297, 18.464**, and if you desaturate by 10%, it is **24, 45.245, 14.108**.

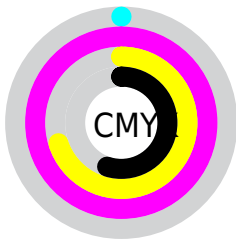
Distribution



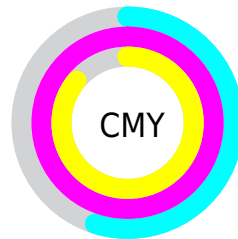
- Red (45%)
- Green (0%)
- Blue (14%)



- Red (45%)
- Yellow (0%)
- Blue (14%)



- Cyan (0%)
- Magenta (100%)
- Yellow (70%)
- Black (55%)



- Cyan (55%)
- Magenta (100%)
- Yellow (86%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 23, 48.378, 18.378 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, 48.378, 18.378 by changing the saturation by 10% instead.

 23, 48.378, 18.378

 23, 48.378, 18.378

 100, 48.378,
18.378

 13, 48.378, 18.378

 43, 48.378, 18.378

 3, 48.378, 18.378

 53, 48.378, 18.378

 0, 48.378, 18.378

 63, 48.378, 18.378

 73, 48.378, 18.378

 83, 48.378, 18.378

 93, 48.378, 18.378

 23, 48.378, 18.378

 23, 48.378, 18.378

■ 23, 48.297, 18.464

■ 24, 45.245, 14.108

■ 25, 41.888, 10.068

■ 27, 37.705, 6.821

■ 30, 32.829, 4.230

■ 32, 27.482, 2.148

■ 35, 21.890, 0.449

■ 38, 16.239,
359.033

■ 42, 10.658,
357.828

■ 45, 5.231, 356.766

Harmonies

Complementary

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



23, 48.378, 18.378



43, 38.830, 162.791

Rectangle

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



23, 48.378, 18.378



23, 48.378, 68.378



23, 48.378, 198.378



23, 48.378, 248.378

Sweetspot

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



23, 48.297, 18.464



50, 20.162, 359.134



20, 66.847, 317.242



24, 13.920, 359.586



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, 48.297, 18.464



31, 58.836, 20.054



24, 53.483, 42.358



23, 2.973, 356.669



25, 50.375, 18.838



53, 86.892, 22.237

Inverse Universe

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



23, 48.297, 18.464



31, 58.836, 20.054



37, 24.314, 230.300



23, 2.973, 356.669



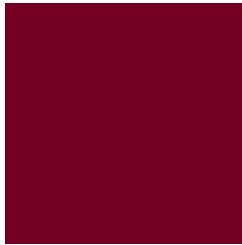
25, 50.375, 18.838



53, 86.892, 22.237

Previews

White Background



This preview shows how the CIE LCh color 23, 48.378, 18.378 looks on a white background.

Color Contrast Check

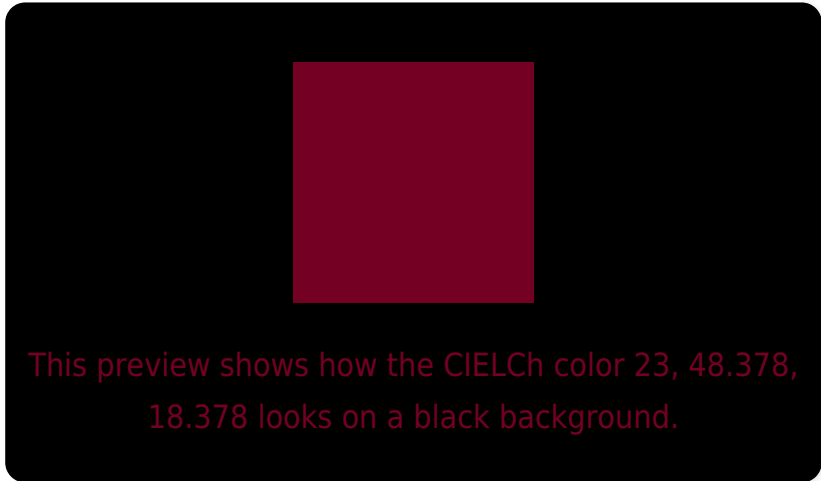
Large Text (above 18pt) WCAG AA ✓ Pass

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

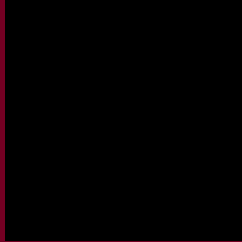
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 23, 48.378, 18.378

Background



This preview shows how black text looks on a background with the CIELCh color 23, 48.378, 18.378.



This preview shows how white text looks on a background with the CIELCh color 23, 48.378, 18.378.

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, 48.378, 18.378

Protanopia

25, 4.805, 91.958

Deuteranopia

25, 19.949, 79.357



Tritanopia
24, 51.741, 36.374

Trichromacy



Original Color
23, 48.378, 18.378

Protanomaly
21, 21.886, 11.340

Deuteranomaly
22, 28.462, 32.479

Tritanomaly
23, 50.035, 30.633

Monochromacy



Original Color
23, 48.378, 18.378

Achromatopsia
16, 0.003, 296.813

Achromatomaly
16, 21.811, 4.921

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 23, 48.378, 18.378 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(116, 0, 35)` looks like.

```
.text, #text, p{  
  color:rgb(116, 0, 35)  
}
```

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(116, 0, 35) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(116, 0, 35) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 48.378, 18.378 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(116, 0, 35) }
```

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

```
.border{ border-color:rgb(116, 0, 35) }
```

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

Here you see how a box with a 4 pixel rgb(116, 0, 35) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(116, 0, 35); -webkit-box-  
shadow:4px 4px 4px 4px rgb(116, 0, 35);  
box-shadow:4px 4px 4px 4px rgb(116, 0, 35)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 23, 48.378, 18.378 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(116, 0, 35) }
```

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

```
.background{ background-color: rgb(116, 0,  
35) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor