

Converting Colors

CIELCh(23, 49.134, 20.026)

Have a look what the booklet for
CIELCh(23, 49.134, 20.026) contains.

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Color

CIELCh(23, 48.716, 19.909)

Conversions

Conversions Part 1

Format	Color
Hex	740021
RGB	116, 0, 33
RGB Percent	45%, 0%, 13%
CMY	0.5460, 1.0000, 0.8712
CMYK	0.00, 1.00, 0.72, 0.55
HSL	343°, 100%, 23%
HSV	343°, 100%, 45%
XYZ	7.4423, 3.8003, 1.7687
YIQ	38.4460, 58.5430, 34.8550

Conversions

Conversions Part 2

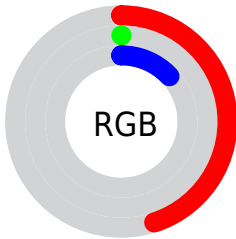
Format	Color
R_{YB}	116, 0, 33
Decimal	7602209
CIE Lab	23.00, 45.80, 16.59
CIE LCh	23, 48.716, 19.909
Yxy	3.8003, 0.5720, 0.2921
Android (android.graphics.Color)	4285792289 (0xFF740021)
YUV	38.4460, -2.6849, 68.0149
Hunter-Lab	19.4944, 34.0303, 8.2666

Details

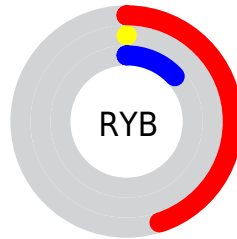
The CIELCh color **23, 48.716, 19.909** is a dark color, and the websafe version is hex **990033**. A complement of this color would be **43, 38.067, 164.137**, and the grayscale version is **15, 0.003, 296.813**.

A 20% lighter version of the original color is **43, 48.737, 19.688**, and **9, 31.983, 25.401** is the 20% darker color. If you saturate the color by 10%, you get **23, 48.664, 19.966**, and if you desaturate by 10%, it is **24, 45.461, 15.566**.

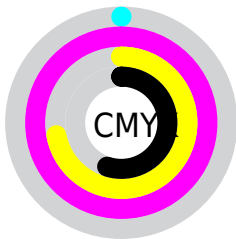
Distribution



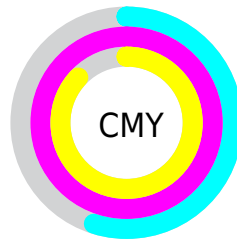
- Red (45%)
- Green (0%)
- Blue (13%)



- Red (45%)
- Yellow (0%)
- Blue (13%)



- Cyan (0%)
- Magenta (100%)
- Yellow (72%)
- Black (55%)



- Cyan (55%)
- Magenta (100%)
- Yellow (87%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 23, 48.716, 19.909 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, 48.716, 19.909 by changing the saturation by 10% instead.

■ 23, 48.716, 19.909

■ 23, 48.716, 19.909

■ 100, 48.716,
19.909

■ 13, 48.716, 19.909

■ 43, 48.716, 19.909

■ 3, 48.716, 19.909

■ 53, 48.716, 19.909

■ 0, 48.716, 19.909

■ 63, 48.716, 19.909

■ 73, 48.716, 19.909

■ 83, 48.716, 19.909

■ 93, 48.716, 19.909

■ 23, 48.716, 19.909

■ 23, 48.716, 19.909

23, 48.664, 19.966

24, 45.461, 15.566

25, 41.980, 11.460

27, 37.709, 8.150

30, 32.776, 5.509

32, 27.397, 3.390

35, 21.795, 1.664

38, 16.149, 0.231

42, 10.589,
359.014

45, 5.192, 357.946

Harmonies

Complementary

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



23, 48.716, 19.909



43, 38.067, 164.137

Rectangle

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



23, 48.716, 19.909



23, 48.716, 69.909



23, 48.716, 199.909



23, 48.716, 249.909

Sweetspot

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



23, 48.664, 19.966



50, 20.037, 0.332



20, 66.697, 317.749



24, 13.839, 0.789



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, 48.664, 19.966



31, 59.296, 21.559



25, 53.200, 43.021



23, 2.948, 357.848



25, 50.732, 20.336



53, 87.686, 23.745

Inverse Universe

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



23, 48.664, 19.966



31, 59.296, 21.559



36, 24.439, 233.804



23, 2.948, 357.848



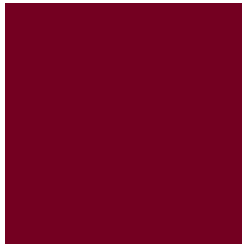
25, 50.732, 20.336



53, 87.686, 23.745

Previews

White Background



This preview shows how the CIE LCh color 23, 48.716, 19.909 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



This preview shows how the CIE LCh color 23, 48.716, 19.909 looks on a 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, 48.716, 19.909

Background



This preview shows how black text looks on a background with the CIELCh color 23, 48.716, 19.909.



This preview shows how white text looks on a background with the CIELCh color 23, 48.716, 19.909.

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, 48.716, 19.909

Protanopia

25, 6.713, 96.336

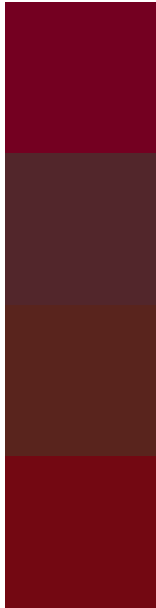
Deuteranopia

25, 21.079, 80.478



Tritanopia
24, 52.114, 36.512

Trichromacy



Original Color
23, 48.716, 19.909

Protanomaly
21, 21.982, 16.523

Deuteranomaly
22, 29.043, 34.793

Tritanomaly
23, 50.755, 31.670

Monochromacy



Original Color
23, 48.716, 19.909

Achromatopsia
15, 0.003, 296.813

Achromatomaly
15, 21.854, 5.086

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 23, 48.716, 19.909 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, 33)` looks like.

```
.text, #text, p{  
    color:rgb(116, 0, 33)  
}
```

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, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(116, 0, 33) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 48.716, 19.909 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, 33) }
```

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

```
.border{ border-color:rgb(116, 0, 33) }
```

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, 33) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(116, 0, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(116, 0, 33);  
box-shadow:4px 4px 4px 4px rgb(116, 0, 33)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 23, 48.716, 19.909 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, 33) }
```

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

```
.background{ background-color: rgb(116, 0,  
33) }
```

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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