

Converting Colors

CIELCh(23, 48.348, 19.936)

Have a look what the booklet for
CIELCh(23, 48.348, 19.936) contains.

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Color

CIELCh(23, 48.180, 19.824)

Conversions

Conversions Part 1

Format	Color
Hex	730121
RGB	115, 1, 33
RGB Percent	45%, 0%, 13%
CMY	0.5481, 0.9947, 0.8699
CMYK	0.00, 0.99, 0.71, 0.55
HSL	343°, 98%, 23%
HSV	343°, 99%, 45%
XYZ	7.3924, 3.8003, 1.7950
YIQ	38.7340, 57.6720, 34.1200

Conversions

Conversions Part 2

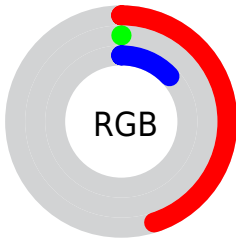
Format	Color
RYB	115, 1, 33
Decimal	7536929
CIELab	23.00, 45.32, 16.34
CIElCh	23, 48.180, 19.824
Yxy	3.8003, 0.5692, 0.2926
Android (android.graphics.Color)	4285727009 (0xFF730121)
YUV	38.7340, -2.8269, 66.8853
Hunter-Lab	19.4944, 33.5729, 8.1867

Details

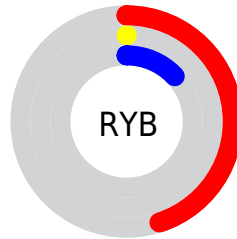
The CIELCh color **23, 48.180, 19.824** is a dark color, and the websafe version is hex **990033**. A complement of this color would be **43, 37.495, 164.694**, and the grayscale version is **16, 0.003, 296.813**.

A 20% lighter version of the original color is **43, 48.326, 19.535**, and **9, 31.528, 24.955** is the 20% darker color. If you saturate the color by 10%, you get **23, 48.581, 20.306**, and if you desaturate by 10%, it is **24, 44.978, 15.387**.

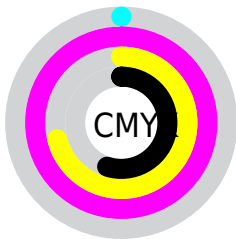
Distribution



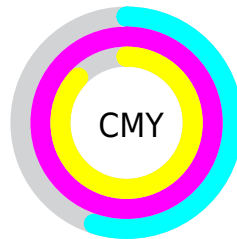
- Red (45%)
- Green (0%)
- Blue (13%)



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



- Cyan (0%)
- Magenta (99%)
- Yellow (71%)
- Black (55%)



- Cyan (55%)
- Magenta (99%)
- Yellow (87%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 23, 48.180, 19.824 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, 48.180, 19.824 by changing the saturation by 10% instead.

 23, 48.180, 19.824

 23, 48.180, 19.824

 100, 48.180,
19.824

 13, 48.180, 19.824

 43, 48.180, 19.824

 3, 48.180, 19.824

 53, 48.180, 19.824

 0, 48.180, 19.824

 63, 48.180, 19.824

 73, 48.180, 19.824

 83, 48.180, 19.824

 93, 48.180, 19.824

 23, 48.180, 19.824

 23, 48.180, 19.824

23, 48.581, 20.306

24, 44.978, 15.387

25, 41.384, 11.368

27, 37.019, 8.134

30, 32.027, 5.553

32, 26.625, 3.479

35, 21.029, 1.788

39, 15.413, 0.381

42, 9.895, 359.184

45, 4.551, 358.125

Harmonies

Complementary

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



23, 48.180, 19.824



43, 37.495, 164.694

Rectangle

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



23, 48.180, 19.824



23, 48.180, 69.824



23, 48.180, 199.824



23, 48.180, 249.824

Sweetspot

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



23, 48.178, 19.826



49, 20.007, 0.636



20, 65.866, 318.298



24, 13.820, 1.094



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, 48.178, 19.826



31, 59.419, 21.932



25, 52.099, 43.661



23, 2.942, 358.147



25, 50.828, 20.708



53, 87.896, 24.118

Inverse Universe

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



23, 48.178, 19.826



31, 59.419, 21.932



35, 24.437, 236.897



23, 2.942, 358.147



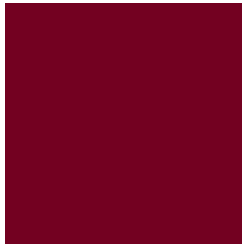
25, 50.828, 20.708



53, 87.896, 24.118

Previews

White Background



This preview shows how the CIELCh color 23, 48.180, 19.824 looks on a white background.

Color Contrast Check

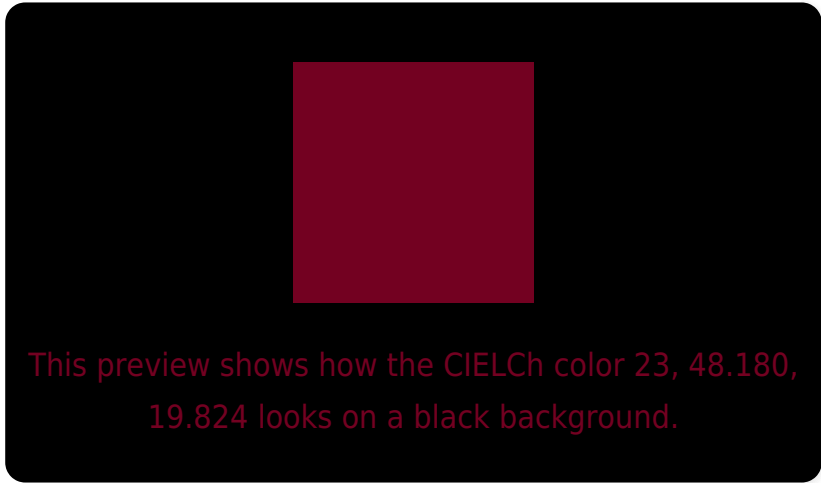
Large Text (above 18pt) WCAG AA ✓ Pass

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

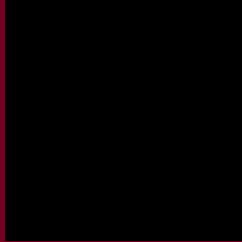
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 23, 48.180, 19.824

Background



This preview shows how black text looks on a background with the CIELCh color 23, 48.180, 19.824.



This preview shows how white text looks on a background with the CIELCh color 23, 48.180, 19.824.

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, 48.180, 19.824

Protanopia

25, 6.713, 96.336

Deuteranopia

25, 20.827, 81.779



Tritanopia
24, 51.741, 36.374

Trichromacy



Original Color
23, 48.180, 19.824

Protanomaly
21, 21.497, 16.191

Deuteranomaly
22, 28.540, 34.851

Tritanomaly
23, 50.324, 31.259

Monochromacy



Original Color
23, 48.180, 19.824

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, 48.180, 19.824 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(115, 1, 33)` looks like.

```
.text, #text, p{  
    color:rgb(115, 1, 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(115, 1, 33) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(115, 1, 33) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 48.180, 19.824 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(115, 1, 33) }
```

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

```
.border{ border-color:rgb(115, 1, 33) }
```

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

Here you see how a box with a 4 pixel `rgb(115, 1, 33)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(115, 1, 33); -webkit-box-  
shadow:4px 4px 4px 4px rgb(115, 1, 33);  
box-shadow:4px 4px 4px 4px rgb(115, 1, 33)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 23, 48.180, 19.824 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(115, 1, 33) }
```

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

```
.background{ background-color: rgb(115, 1,  
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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