

Converting Colors

CIELCh(24, 48.857, 15.501)

Have a look what the booklet for
CIELCh(24, 48.857, 15.501) contains.

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Color

CIELCh(24, 48.731, 15.423)

Conversions

Conversions Part 1

Format	Color
Hex	770028
RGB	119, 0, 40
RGB Percent	47%, 0%, 16%
CMY	0.5324, 0.9986, 0.8425
CMYK	0.00, 1.00, 0.66, 0.53
HSL	340°, 99%, 23%
HSV	340°, 100%, 47%
XYZ	8.0293, 4.1002, 2.3909
YIQ	40.1410, 58.0840, 37.6680

Conversions

Conversions Part 2

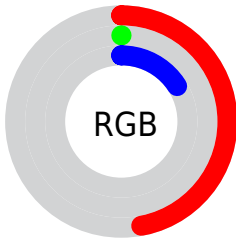
Format	Color
RYB	119, 0, 40
Decimal	7798824
CIELab	24.00, 46.98, 12.96
CIELCh	24, 48.731, 15.423
Yxy	4.1002, 0.5530, 0.2824
Android (android.graphics.Color)	4285988904 (0xFF770028)
YUV	40.1410, -0.0695, 69.1593
Hunter-Lab	20.2490, 35.3448, 7.1735

Details

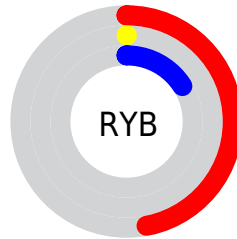
The CIELCh color **24, 48.731, 15.423** is a dark color, and the websafe version is hex **990033**. A complement of this color would be **44, 41.342, 160.174**, and the grayscale version is **16, 0.003, 296.813**.

A 20% lighter version of the original color is **44, 48.823, 15.123**, and **10, 33.482, 27.273** is the 20% darker color. If you saturate the color by 10%, you get **24, 48.819, 15.547**, and if you desaturate by 10%, it is **25, 45.964, 11.114**.

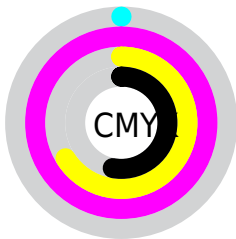
Distribution



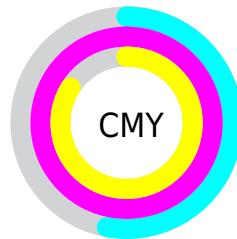
- Red (47%)
- Green (0%)
- Blue (16%)



- Red (47%)
- Yellow (0%)
- Blue (16%)



- Cyan (0%)
- Magenta (100%)
- Yellow (66%)
- Black (53%)



- Cyan (53%)
- Magenta (100%)
- Yellow (84%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 24, 48.731, 15.423 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 24, 48.731, 15.423 by changing the saturation by 10% instead.

 24, 48.731, 15.423

 24, 48.731, 15.423

 100, 48.731,
15.423

 14, 48.731, 15.423

 44, 48.731, 15.423

 4, 48.731, 15.423

 54, 48.731, 15.423

 0, 48.731, 15.423

 64, 48.731, 15.423

 74, 48.731, 15.423

 84, 48.731, 15.423

 94, 48.731, 15.423

 24, 48.731, 15.423

 24, 48.731, 15.423

■ 24, 48.819, 15.547

■ 25, 45.964, 11.114

■ 26, 42.757, 7.223

■ 28, 38.624, 4.112

■ 31, 33.717, 1.631

■ 33, 28.275,
359.632

■ 36, 22.541,
357.992

■ 40, 16.713,
356.618

■ 43, 10.934,
355.440

■ 47, 5.294, 354.396

Harmonies

Complementary

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



24, 48.731, 15.423



44, 41.342, 160.174

Rectangle

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



24, 48.731, 15.423



24, 48.731, 65.423



24, 48.731, 195.423



24, 48.731, 245.423

Sweetspot

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



24, 48.729, 15.425



51, 21.012, 356.753



20, 68.628, 316.231



25, 14.498, 357.204



83, 0.010, 296.813



34, 0.005, 296.813

Same Dimension

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



24, 48.729, 15.425



32, 59.518, 17.077



25, 55.424, 41.321



23, 3.027, 354.327



25, 49.772, 15.713



53, 85.488, 19.055

Inverse Universe

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



24, 48.729, 15.425



32, 59.518, 17.077



39, 24.857, 223.389



23, 3.027, 354.327



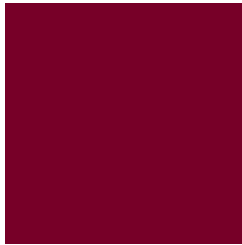
25, 49.772, 15.713



53, 85.488, 19.055

Previews

White Background



This preview shows how the CIE LCh color 24, 48.731, 15.423 looks on a white background.

Color Contrast Check

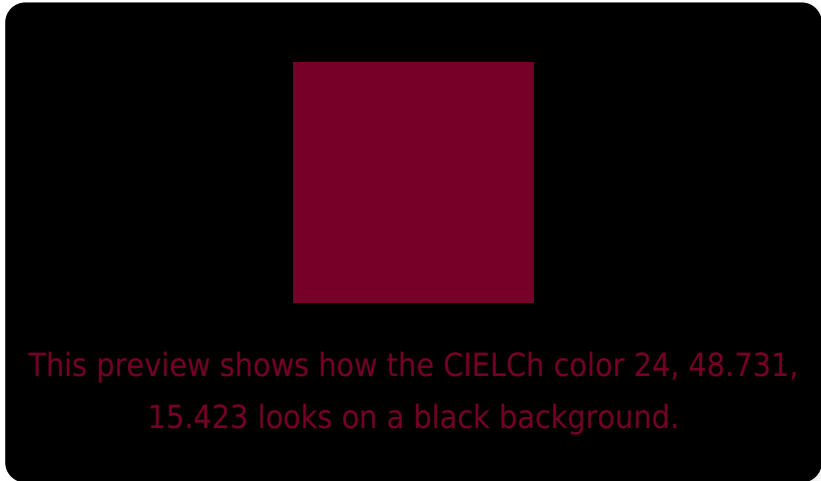
Large Text (above 18pt) WCAG AA ✓ Pass

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

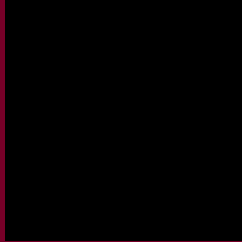
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 24, 48.731, 15.423

Background



This preview shows how black text looks on a background with the CIELCh color 24, 48.731, 15.423.



This preview shows how white text looks on a background with the CIELCh color 24, 48.731, 15.423.

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

24, 48.731, 15.423

Protanopia

26, 1.378, 90.533

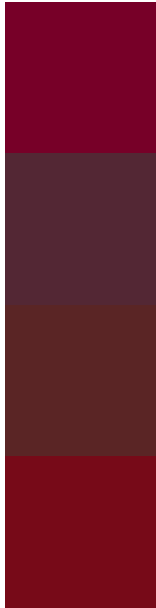
Deuteranopia

26, 17.293, 78.156



Tritanopia
25, 52.370, 35.844

Trichromacy



Original Color
24, 48.731, 15.423

Protanomaly
22, 22.131, 2.683

Deuteranomaly
22, 27.166, 26.089

Tritanomaly
24, 50.409, 28.827

Monochromacy



Original Color
24, 48.731, 15.423

Achromatopsia
16, 0.003, 296.813

Achromatomaly
16, 22.388, 1.926

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 24, 48.731, 15.423 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(119, 0, 40)` looks like.

```
.text, #text, p{  
    color:rgb(119, 0, 40)  
}
```

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(119, 0, 40) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(119, 0, 40) }
```

Border

The CSS property to change the border of an element to CIELCh 24, 48.731, 15.423 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(119, 0, 40) }
```

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

```
.border{ border-color:rgb(119, 0, 40) }
```

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

Here you see how a box with a 4 pixel rgb(119, 0, 40) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(119, 0, 40); -webkit-box-  
shadow:4px 4px 4px 4px rgb(119, 0, 40);  
box-shadow:4px 4px 4px 4px rgb(119, 0, 40)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 24, 48.731, 15.423 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(119, 0, 40) }
```

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

```
.background{ background-color: rgb(119, 0,  
40) }
```

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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