

Converting Colors

CIELCh(24, 49.675, 19.087)

Have a look what the booklet for
CIELCh(24, 49.675, 19.087) contains.

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Color

CIELCh(24, 49.815, 19.501)

Conversions

Conversions Part 1

Format	Color
Hex	780023
RGB	120, 0, 35
RGB Percent	47%, 0%, 14%
CMY	0.5299, 1.0000, 0.8631
CMYK	0.00, 1.00, 0.71, 0.53
HSL	343°, 100%, 24%
HSV	343°, 100%, 47%
XYZ	8.0273, 4.1002, 1.9511
YIQ	39.8700, 60.2850, 36.3250

Conversions

Conversions Part 2

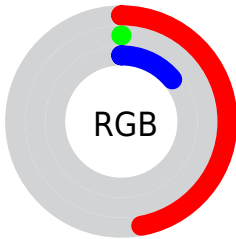
Format	Color
RYB	120, 0, 35
Decimal	7864355
CIELab	24.00, 46.96, 16.63
CIELCh	24, 49.815, 19.501
Yxy	4.1002, 0.5702, 0.2912
Android (android.graphics.Color)	4286054435 (0xFF780023)
YUV	39.8700, -2.4009, 70.2740
Hunter-Lab	20.2490, 35.3267, 8.4614

Details

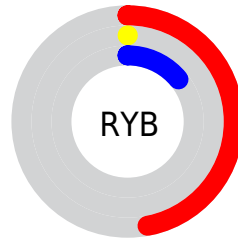
The CIELCh color **24, 49.815, 19.501** is a dark color, and the websafe version is hex **990033**. A complement of this color would be **44, 39.435, 163.443**, and the grayscale version is **16, 0.003, 296.813**.

A 20% lighter version of the original color is **44, 49.786, 19.370**, and **10, 33.482, 27.273** is the 20% darker color. If you saturate the color by 10%, you get **24, 49.783, 19.535**, and if you desaturate by 10%, it is **25, 46.618, 15.070**.

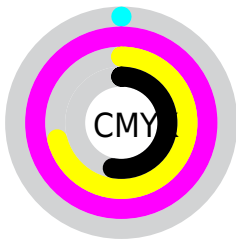
Distribution



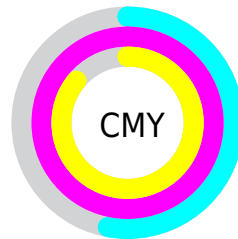
- Red (47%)
- Green (0%)
- Blue (14%)



- Red (47%)
- Yellow (0%)
- Blue (14%)



- Cyan (0%)
- Magenta (100%)
- Yellow (71%)
- Black (53%)



- Cyan (53%)
- Magenta (100%)
- Yellow (86%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 24, 49.815, 19.501 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, 49.815, 19.501 by changing the saturation by 10% instead.

 24, 49.815, 19.501

 24, 49.815, 19.501

 100, 49.815,
19.501

 14, 49.815, 19.501

 44, 49.815, 19.501

 4, 49.815, 19.501

 54, 49.815, 19.501

 0, 49.815, 19.501

 64, 49.815, 19.501

 74, 49.815, 19.501

 84, 49.815, 19.501

 94, 49.815, 19.501

 24, 49.815, 19.501

 24, 49.815, 19.501

■ 24, 49.783, 19.535

■ 25, 46.618, 15.070

■ 26, 43.119, 10.950

■ 28, 38.786, 7.634

■ 31, 33.750, 4.991

■ 33, 28.237, 2.871

■ 37, 22.478, 1.144

■ 40, 16.665,
359.710

■ 43, 10.931,
358.492

■ 47, 5.362, 357.421

Harmonies

Complementary

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



24, 49.815, 19.501



44, 39.435, 163.443

Rectangle

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



24, 49.815, 19.501



24, 49.815, 69.501



24, 49.815, 199.501



24, 49.815, 249.501

Sweetspot

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



24, 49.783, 19.535



51, 20.649, 359.808



21, 68.385, 317.715



25, 14.261, 0.275



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, 49.783, 19.535



32, 60.603, 21.069



26, 54.847, 43.182



24, 3.067, 357.327



25, 51.355, 19.803



53, 88.017, 23.111

Inverse Universe

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



24, 49.783, 19.535



32, 60.603, 21.069



37, 25.060, 233.959



24, 3.067, 357.327



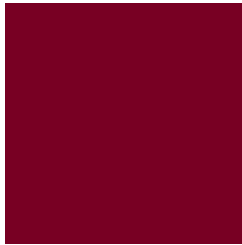
25, 51.355, 19.803



53, 88.017, 23.111

Previews

White Background



This preview shows how the CIELCh color 24, 49.815, 19.501 looks on a white background.

Color Contrast Check

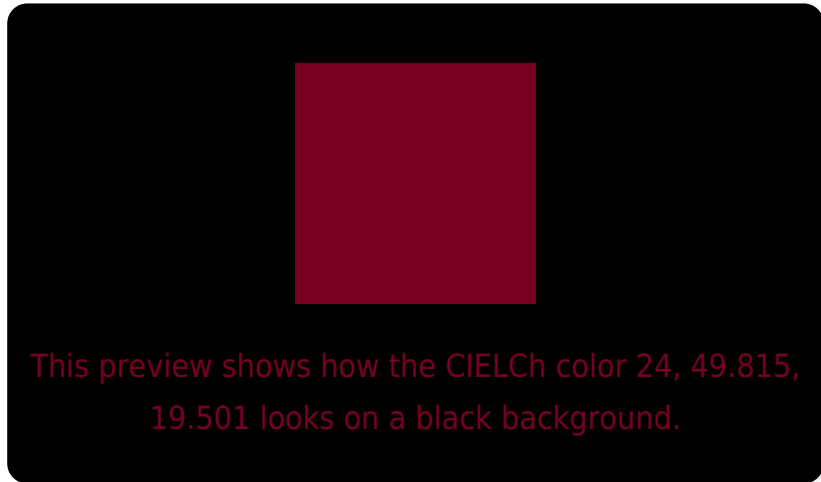
Large Text (above 18pt) WCAG AA ✓ Pass

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, 49.815, 19.501

Background



This preview shows how black text looks on a background with the CIELCh color 24, 49.815, 19.501.



This preview shows how white text looks on a background with the CIELCh color 24, 49.815, 19.501.

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, 49.815, 19.501

Protanopia

26, 6.041, 95.266

Deuteranopia

26, 20.970, 80.666



Tritanopia
25, 53.435, 36.620

Trichromacy



Original Color
24, 49.815, 19.501

Protanomaly
22, 22.307, 13.361

Deuteranomaly
22, 29.141, 33.516

Tritanomaly
24, 51.667, 31.148

Monochromacy



Original Color
24, 49.815, 19.501

Achromatopsia
16, 0.003, 296.813

Achromatomaly
16, 22.749, 4.481

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 24, 49.815, 19.501 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(120, 0, 35)` looks like.

```
.text, #text, p{  
    color:rgb(120, 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(120, 0, 35) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 0, 35) }
```

Border

The CSS property to change the border of an element to CIELCh 24, 49.815, 19.501 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(120, 0, 35) }
```

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

```
.border{ border-color:rgb(120, 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(120, 0, 35)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 0, 35); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 0, 35);  
box-shadow:4px 4px 4px 4px rgb(120, 0, 35)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 24, 49.815, 19.501 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 0, 35) }
```

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

```
.background{ background-color: rgb(120, 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](#).

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