

Converting Colors

CIELCh(24, 49.914, 20.100)

Have a look what the booklet for
CIELCh(24, 49.914, 20.100) contains.

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Color

CIELCh(24, 49.992, 20.237)

Conversions

Conversions Part 1

Format	Color
Hex	780022
RGB	120, 0, 34
RGB Percent	47%, 0%, 13%
CMY	0.5297, 1.0000, 0.8669
CMYK	0.00, 1.00, 0.72, 0.53
HSL	343°, 100%, 24%
HSV	343°, 100%, 47%
XYZ	8.0216, 4.1002, 1.8779
YIQ	39.7560, 60.6060, 36.0140

Conversions

Conversions Part 2

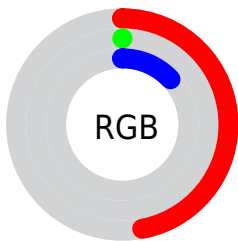
Format	Color
R_{YB}	120, 0, 34
Decimal	7864354
CIE _{Lab}	24.00, 46.91, 17.29
CIE _{LCh}	24, 49.992, 20.237
Yxy	4.1002, 0.5730, 0.2929
Android (android.graphics.Color)	4286054434 (0xFF780022)
YUV	39.7560, -2.8377, 70.3740
Hunter-Lab	20.2490, 35.2769, 8.6758

Details

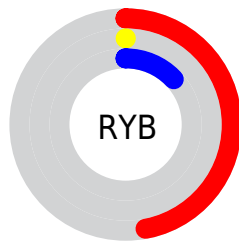
The CIELCh color **24, 49.992, 20.237** is a dark color, and the websafe version is hex **990033**. A complement of this color would be **44, 39.057, 164.101**, and the grayscale version is **16, 0.003, 296.813**.

A 20% lighter version of the original color is **44, 49.908, 20.035**, and **10, 33.482, 27.273** is the 20% darker color. If you saturate the color by 10%, you get **24, 49.974, 20.257**, and if you desaturate by 10%, it is **25, 46.732, 15.773**.

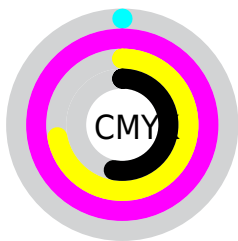
Distribution



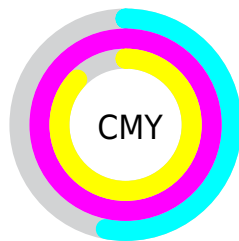
- Red (47%)
- Green (0%)
- Blue (13%)



- Red (47%)
- Yellow (0%)
- Blue (13%)



- Cyan (0%)
- Magenta (100%)
- Yellow (72%)
- Black (53%)



- Cyan (53%)
- Magenta (100%)
- Yellow (87%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 24, 49.992, 20.237 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, 49.992, 20.237 by changing the saturation by 10% instead.

■ 24, 49.992, 20.237

■ 24, 49.992, 20.237

■ 100, 49.992,
20.237

■ 14, 49.992, 20.237

■ 44, 49.992, 20.237

■ 4, 49.992, 20.237

■ 54, 49.992, 20.237

■ 0, 49.992, 20.237

■ 64, 49.992, 20.237

■ 74, 49.992, 20.237

■ 84, 49.992, 20.237

■ 94, 49.992, 20.237

■ 24, 49.992, 20.237

■ 24, 49.992, 20.237

24, 49.974, 20.257

25, 46.732, 15.773

26, 43.170, 11.622

28, 38.792, 8.277

31, 33.727, 5.610

33, 28.197, 3.472

37, 22.432, 1.733

40, 16.621, 0.290

43, 10.897,
359.067

47, 5.343, 357.994

Harmonies

Complementary

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



24, 49.992, 20.237



44, 39.057, 164.101

Rectangle

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



24, 49.992, 20.237



24, 49.992, 70.237



24, 49.992, 200.237



24, 49.992, 250.237

Sweetspot

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



24, 49.974, 20.257



51, 20.588, 0.388



21, 68.211, 318.233



25, 14.222, 0.858



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, 49.974, 20.257



32, 60.841, 21.791



26, 54.517, 43.873



24, 3.055, 357.899



25, 51.538, 20.523



53, 88.413, 23.834

Inverse Universe

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



24, 49.974, 20.257



32, 60.841, 21.791



37, 25.270, 237.461



24, 3.055, 357.899



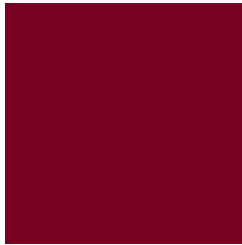
25, 51.538, 20.523



53, 88.413, 23.834

Previews

White Background



This preview shows how the CIE LCh color 24, 49.992, 20.237 looks on a white background.

Color Contrast Check

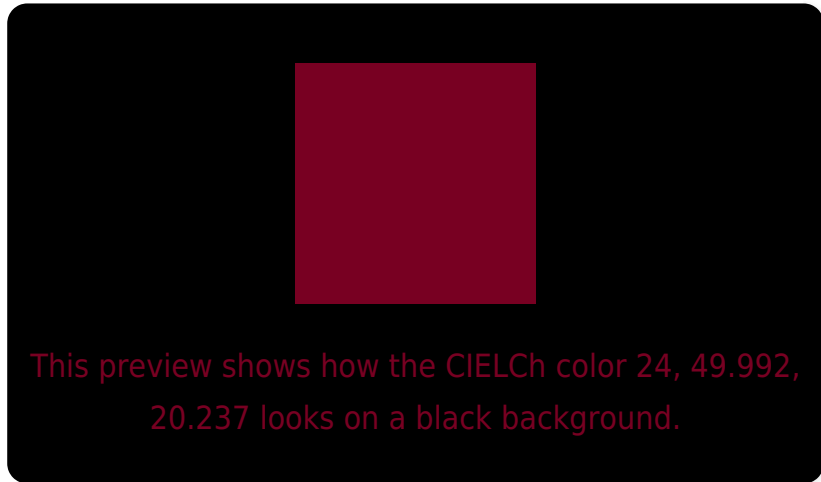
Large Text (above 18pt) WCAG AA ✓ Pass

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

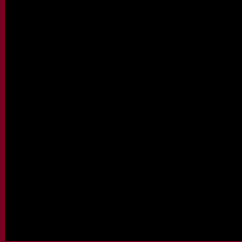
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 24, 49.992, 20.237

Background



This preview shows how black text looks on a background with the CIELCh color 24, 49.992, 20.237.



This preview shows how white text looks on a background with the CIELCh color 24, 49.992, 20.237.

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, 49.992, 20.237

Protanopia

26, 6.677, 96.392

Deuteranopia

26, 21.532, 81.172



Tritanopia
25, 53.435, 36.620

Trichromacy



Original Color
24, 49.992, 20.237

Protanomaly
22, 22.342, 15.051

Deuteranomaly
22, 29.435, 34.641

Tritanomaly
24, 51.958, 31.741

Monochromacy



Original Color
24, 49.992, 20.237

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, 49.992, 20.237 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, 34)` looks like.

```
.text, #text, p{  
    color:rgb(120, 0, 34)  
}
```

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, 34) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 0, 34) }
```

Border

The CSS property to change the border of an element to CIELCh 24, 49.992, 20.237 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, 34) }
```

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

```
.border{ border-color:rgb(120, 0, 34) }
```

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, 34) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 0, 34); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 0, 34);  
box-shadow:4px 4px 4px 4px rgb(120, 0, 34)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 24, 49.992, 20.237 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, 34) }
```

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

```
.background{ background-color: rgb(120, 0,  
34) }
```

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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