

# Converting Colors

CIELCh(24, 50.592, 22.605)

Have a look what the booklet for  
CIELCh(24, 50.592, 22.605) contains.

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**Color**

**CIELCh(24, 50.579, 22.406)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	78001F
RGB	120, 0, 31
RGB Percent	47%, 0%, 12%
CMY	0.5291, 0.9995, 0.8782
CMYK	0.00, 1.00, 0.74, 0.53
HSL	345°, 100%, 24%
HSV	345°, 100%, 47%
XYZ	8.0057, 4.1002, 1.6695
YIQ	39.4140, 61.5690, 35.0810

# Conversions

## Conversions Part 2

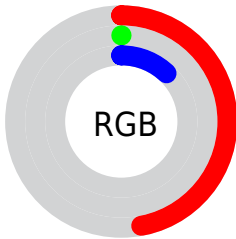
Format	Color
<a href="#">RYB</a>	120, 0, 31
Decimal	7864351
CIELab	24.00, 46.76, 19.28
CIELCh	24, 50.579, 22.406
Yxy	4.1002, 0.5812, 0.2976
Android (android.graphics.Color)	4286054431 (0xFF78001F)
YUV	39.4140, -4.1481, 70.6739
Hunter-Lab	20.2490, 35.1364, 9.2859

# Details

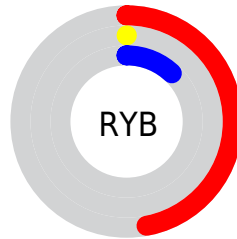
The CIELCh color **24, 50.579, 22.406** is a dark color, and the websafe version is hex **990033**. A complement of this color would be **44, 37.879, 166.239**, and the grayscale version is **16, 0.003, 296.813**.

A 20% lighter version of the original color is **44, 50.737, 22.133**, and **10, 33.482, 27.273** is the 20% darker color. If you saturate the color by 10%, you get **24, 50.615, 22.451**, and if you desaturate by 10%, it is **25, 47.099, 17.881**.

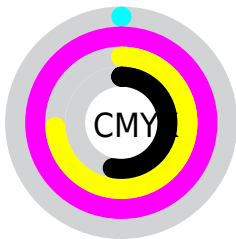
# Distribution



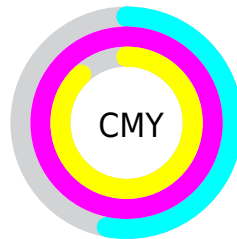
- Red (47%)
- Green (0%)
- Blue (12%)



- Red (47%)
- Yellow (0%)
- Blue (12%)



- Cyan (0%)
- Magenta (100%)
- Yellow (74%)
- Black (53%)



- Cyan (53%)
- Magenta (100%)
- Yellow (88%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 24, 50.579, 22.406 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, 50.579, 22.406 by changing the saturation by 10% instead.



 24, 50.579, 22.406

 24, 50.579, 22.406

 100, 50.579,  
22.406

 14, 50.579, 22.406

 44, 50.579, 22.406

 4, 50.579, 22.406

 54, 50.579, 22.406

 0, 50.579, 22.406

 64, 50.579, 22.406

 74, 50.579, 22.406

 84, 50.579, 22.406

 94, 50.579, 22.406

 24, 50.579, 22.406

 24, 50.579, 22.406

■ 24, 50.615, 22.451

■ 25, 47.099, 17.881

■ 26, 43.327, 13.659

■ 28, 38.794, 10.240

■ 31, 33.625, 7.512

■ 33, 28.034, 5.329

■ 37, 22.245, 3.559

■ 40, 16.438, 2.097

■ 43, 10.741, 0.863

■ 47, 5.232, 359.784

# Harmonies

# Complementary

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



24, 50.579, 22.406



44, 37.879, 166.239

# Rectangle

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



24, 50.579, 22.406



24, 50.579, 72.406



24, 50.579, 202.406



24, 50.579, 252.406

# Sweetspot

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



24, 50.577, 22.408



51, 20.416, 2.209



22, 68.050, 318.763



25, 14.111, 2.686



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, 50.577, 22.408



32, 61.643, 23.979



26, 54.164, 44.609



24, 3.019, 359.700



25, 52.161, 22.710



53, 89.732, 26.010





# Inverse Universe

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



24, 50.577, 22.408



32, 61.643, 23.979



36, 25.573, 240.894



24, 3.019, 359.700



25, 52.161, 22.710

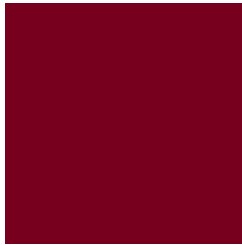


53, 89.732, 26.010



# Previews

## White Background



This preview shows how the CIE LCh color 24, 50.579, 22.406 looks on a white background.

## Color Contrast Check

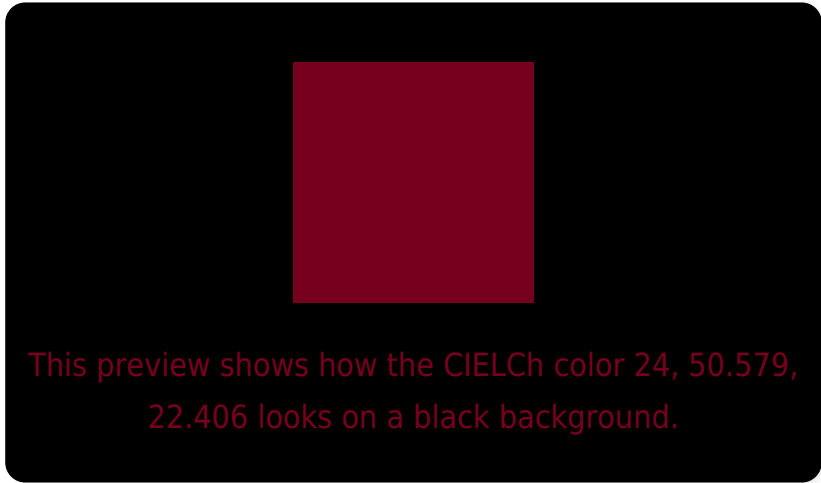
Large Text (above 18pt) WCAG AA ✓ Pass

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, 50.579, 22.406**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 24, 50.579, 22.406.



This preview shows how white text looks on a background with the CIELCh color 24, 50.579, 22.406.

# 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, 50.579, 22.406

### Protanopia

26, 9.326, 96.163

### Deuteranopia

26, 23.987, 81.713



**Tritanopia**  
25, 54.449, 37.174



# Trichromacy



**Original Color**  
24, 50.579, 22.406

**Protanomaly**  
22, 23.198, 21.900

**Deuteranomaly**  
23, 30.882, 37.734

**Tritanomaly**  
24, 53.079, 32.802

# Monochromacy



**Original Color**  
24, 50.579, 22.406

**Achromatopsia**  
16, 0.003, 296.813

**Achromatomaly**  
16, 22.681, 6.205

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 24, 50.579, 22.406 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, 31)` looks like.

```
.text, #text, p{  
    color:rgb(120, 0, 31)  
}
```

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, 31) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 0, 31) }
```

## Border

The CSS property to change the border of an element to CIELCh 24, 50.579, 22.406 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, 31) }
```

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

```
.border{ border-color:rgb(120, 0, 31) }
```

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, 31) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 0, 31); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 0, 31);  
box-shadow:4px 4px 4px 4px rgb(120, 0, 31)  
}
```

# Background

The CSS property to change the background color of an element to CIELCh 24, 50.579, 22.406 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, 31) }
```

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

```
.background{ background-color: rgb(120, 0,  
31) }
```

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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