

Converting Colors

CIELCh(31, 58.089, 17.110)

Have a look what the booklet for
CIELCh(31, 58.089, 17.110) contains.

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Color

CIELCh(31, 57.945, 17.036)

Conversions

Conversions Part 1

Format	Color
Hex	960032
RGB	150, 0, 50
RGB Percent	59%, 0%, 20%
CMY	0.4135, 1.0000, 0.8052
CMYK	0.00, 1.00, 0.67, 0.41
HSL	340°, 100%, 29%
HSV	340°, 100%, 59%
XYZ	13.0566, 6.6515, 3.5776
YIQ	50.5500, 73.3500, 47.3500

Conversions

Conversions Part 2

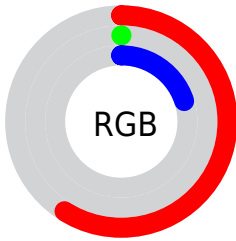
Format	Color
R_YB	150, 0, 50
Decimal	9830450
CIE Lab	31.00, 55.40, 16.98
CIE LCh	31, 57.945, 17.036
Yxy	6.6515, 0.5607, 0.2856
Android (android.graphics.Color)	4288020530 (0xFF960032)
YUV	50.5500, -0.2712, 87.2176
Hunter-Lab	25.7905, 45.2333, 9.8287

Details

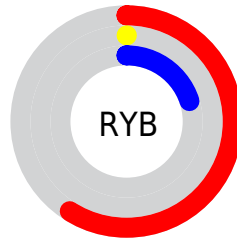
The CIELCh color **31, 57.945, 17.036** is a dark color, and the websafe version is hex **990033**. A complement of this color would be **55, 49.060, 159.795**, and the grayscale version is **21, 0.004, 296.813**.

A 20% lighter version of the original color is **51, 57.904, 16.791**, and **17, 44.934, 32.577** is the 20% darker color. If you saturate the color by 10%, you get **31, 57.841, 17.126**, and if you desaturate by 10%, it is **32, 54.885, 12.354**.

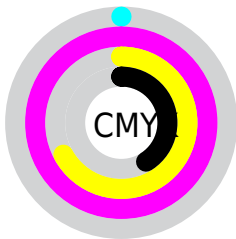
Distribution



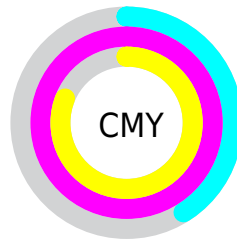
- Red (59%)
- Green (0%)
- Blue (20%)



- Red (59%)
- Yellow (0%)
- Blue (20%)



- Cyan (0%)
- Magenta (100%)
- Yellow (67%)
- Black (41%)



- Cyan (41%)
- Magenta (100%)
- Yellow (81%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 31, 57.945, 17.036 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 31, 57.945, 17.036 by changing the saturation by 10% instead.

 31, 57.945, 17.036

 31, 57.945, 17.036

 100, 57.945,
17.036

 21, 57.945, 17.036

 51, 57.945, 17.036

 11, 57.945, 17.036

 61, 57.945, 17.036

 1, 57.945, 17.036

 71, 57.945, 17.036

 0, 57.945, 17.036

 81, 57.945, 17.036

 91, 57.945, 17.036

 31, 57.945, 17.036

 31, 57.945, 17.036

 31, 57.841, 17.126

 32, 54.885, 12.354

■ 34, 51.243, 8.177

■ 36, 46.460, 4.842

■ 39, 40.683, 2.198

■ 42, 34.205, 0.082

■ 45, 27.332,
358.360

■ 49, 20.323,
356.927

■ 53, 13.361,
355.706

■ 58, 6.566, 354.631

Harmonies

Complementary

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



31, 57.945, 17.036



55, 49.060, 159.795

Rectangle

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



31, 57.945, 17.036



31, 57.945, 67.036



31, 57.945, 197.036



31, 57.945, 247.036

Sweetspot

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



31, 57.841, 17.126



63, 25.120, 357.006



26, 80.857, 316.498



31, 17.155, 357.527



89, 0.011, 296.813



41, 0.006, 296.813

Same Dimension

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



31, 57.841, 17.126



41, 70.396, 18.356



32, 66.910, 42.669



29, 3.670, 354.547



28, 54.369, 16.671



1, 3.157, 353.764

Inverse Universe

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



31, 57.841, 17.126



41, 70.396, 18.356



48, 29.244, 227.685



29, 3.670, 354.547



28, 54.369, 16.671



1, 3.157, 353.764

Previews

White Background



This preview shows how the CIELCh color 31, 57.945, 17.036 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



This preview shows how the CIE LCh color 31, 57.945, 17.036 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

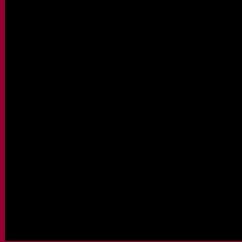
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 31, 57.945, 17.036

Background



This preview shows how black text looks on a background with the CIELCh color 31, 57.945, 17.036.



This preview shows how white text looks on a background with the CIELCh color 31, 57.945, 17.036.

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

31, 57.945, 17.036

Protanopia

33, 2.301, 74.505

Deuteranopia

32, 21.508, 78.726



Tritanopia
32, 63.051, 36.710

Trichromacy



Original Color
31, 57.945, 17.036

Protanomaly
28, 27.527, 3.037

Deuteranomaly
29, 33.832, 27.652

Tritanomaly
31, 60.569, 30.332

Monochromacy



Original Color
31, 57.945, 17.036

Achromatopsia
21, 0.004, 296.813

Achromatomaly
21, 27.056, 1.891

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 31, 57.945, 17.036 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(150, 0, 50)` looks like.

```
.text, #text, p{  
    color:rgb(150, 0, 50)  
}
```

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(150, 0, 50) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(150, 0, 50) }
```

Border

The CSS property to change the border of an element to CIELCh 31, 57.945, 17.036 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(150, 0, 50) }
```

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

```
.border{ border-color:rgb(150, 0, 50) }
```

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

Here you see how a box with a 4 pixel rgb(150, 0, 50) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(150, 0, 50); -webkit-box-  
shadow:4px 4px 4px 4px rgb(150, 0, 50);  
box-shadow:4px 4px 4px 4px rgb(150, 0, 50)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 31, 57.945, 17.036 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(150, 0, 50) }
```

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

```
.background{ background-color: rgb(150, 0,  
50) }
```

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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