

Converting Colors

CIELCh(31, 68.869, 37.235)

Have a look what the booklet for
CIELCh(31, 68.869, 37.235) contains.

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Color

CIELCh(31, 68.640, 37.355)

Conversions

Conversions Part 1

Format	Color
Hex	980008
RGB	152, 0, 8
RGB Percent	60%, 0%, 3%
CMY	0.4051, 1.0000, 0.9696
CMYK	0.00, 1.00, 0.95, 0.41
HSL	357°, 100%, 30%
HSV	357°, 100%, 59%
XYZ	12.9293, 6.6515, 0.8250
YIQ	46.3600, 88.0240, 34.7120

Conversions

Conversions Part 2

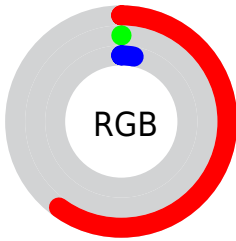
Format	Color
RYB	152, 0, 8
Decimal	9961480
CIELab	31.00, 54.56, 41.65
CIELCh	31, 68.640, 37.355
Yxy	6.6515, 0.6336, 0.3260
Android (android.graphics.Color)	4288151560 (0xFF980008)
YUV	46.3600, -18.9115, 92.6463
Hunter-Lab	25.7905, 44.3524, 16.1567

Details

The CIELCh color **31, 68.640, 37.355** is a dark color, and the websafe version is hex **990000**. A complement of this color would be **56, 35.472, 188.959**, and the grayscale version is **19, 0.004, 296.813**.

A 20% lighter version of the original color is **51, 68.877, 37.607**, and **17, 45.705, 34.322** is the 20% darker color. If you saturate the color by 10%, you get **31, 68.587, 37.410**, and if you desaturate by 10%, it is **32, 63.287, 34.040**.

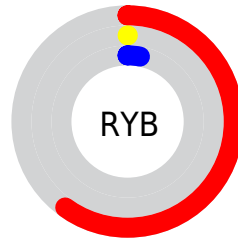
Distribution



Red (60%)

Green (0%)

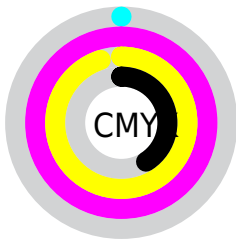
Blue (3%)



Red (60%)

Yellow (0%)

Blue (3%)

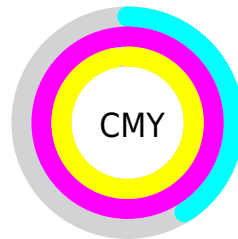


Cyan (0%)

Magenta (100%)

Yellow (95%)

Black (41%)



Cyan (41%)

Magenta (100%)

Yellow (97%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 31, 68.640, 37.355 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, 68.640, 37.355 by changing the saturation by 10% instead.

■ 31, 68.640, 37.355 ■ 31, 68.640, 37.355

■ 100, 68.640, 37.355 ■ 21, 68.640, 37.355

■ 51, 68.640, 37.355 ■ 11, 68.640, 37.355

■ 61, 68.640, 37.355 ■ 1, 68.640, 37.355

■ 71, 68.640, 37.355 ■ 0, 68.640, 37.355

■ 81, 68.640, 37.355

■ 91, 68.640, 37.355

■ 31, 68.640, 37.355 ■ 31, 68.640, 37.355

■ 31, 68.587, 37.410 ■ 32, 63.287, 34.040

■ 33, 56.826, 30.060

■ 36, 49.641, 26.480

■ 38, 42.071, 23.527

■ 42, 34.380, 21.184

■ 46, 26.796, 19.349

■ 50, 19.489, 17.909

■ 54, 12.564, 16.765

■ 58, 6.066, 15.823

Harmonies

Complementary

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



31, 68.640, 37.355



56, 35.472, 188.959

Rectangle

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



31, 68.640, 37.355



31, 68.640, 87.355



31, 68.640, 217.355



31, 68.640, 267.355

Sweetspot

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



31, 68.587, 37.410



63, 24.096, 17.984



34, 78.730, 325.666



31, 16.774, 18.510



90, 0.011, 296.813



42, 0.006, 296.813

Same Dimension

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



31, 68.587, 37.410



41, 83.769, 38.124



39, 59.423, 56.064



30, 3.443, 15.755



28, 64.424, 36.992



1, 3.609, 15.229

Inverse Universe

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



31, 68.587, 37.410



41, 83.769, 38.124



36, 42.227, 275.885



30, 3.443, 15.755



28, 64.424, 36.992



1, 3.609, 15.229

Previews

White Background



This preview shows how the CIELCh color 31, 68.640, 37.355 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 CIELCh color 31, 68.640, 37.355 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, 68.640, 37.355

Background



This preview shows how black text looks on a background with the CIELCh color 31, 68.640, 37.355.



This preview shows how white text looks on a background with the CIELCh color 31, 68.640, 37.355.

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, 68.640, 37.355

Protanopia

33, 32.741, 96.131

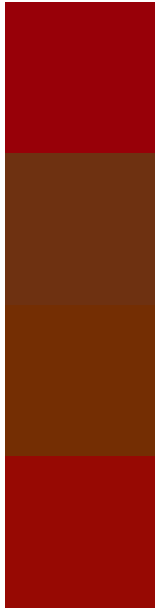
Deuteranopia

32, 41.360, 85.679



Tritanopia
32, 68.904, 40.914

Trichromacy



Original Color
31, 68.640, 37.355

Protanomaly
28, 40.410, 51.883

Deuteranomaly
29, 48.100, 53.264

Tritanomaly
31, 68.634, 39.574

Monochromacy



Original Color
31, 68.640, 37.355

Achromatopsia
19, 0.004, 296.813

Achromatomaly
20, 28.257, 23.626

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 31, 68.640, 37.355 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(152, 0, 8)` looks like.

```
.text, #text, p{  
    color:rgb(152, 0, 8)  
}
```

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(152, 0, 8) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(152, 0, 8) }
```

Border

The CSS property to change the border of an element to CIELCh 31, 68.640, 37.355 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(152, 0, 8) }
```

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

```
.border{ border-color:rgb(152, 0, 8) }
```

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

Here you see how a box with a 4 pixel `rgb(152, 0, 8)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(152, 0, 8); -webkit-box-shadow:4px  
4px 4px 4px rgb(152, 0, 8); box-shadow:4px  
4px 4px 4px rgb(152, 0, 8) }
```

Background

The CSS property to change the background color of an element to CIELCh 31, 68.640, 37.355 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(152, 0, 8) }
```

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

```
.background{ background-color: rgb(152, 0,  
8) }
```

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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