

Converting Colors

CIELCh(31, 75.686, 36.439)

Have a look what the booklet for
CIELCh(31, 75.686, 36.439) contains.

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Color

CIELCh(33, 72.883, 39.435)

Conversions

Conversions Part 1

Format	Color
Hex	A00202
RGB	160, 2, 2
RGB Percent	63%, 1%, 1%
CMY	0.3721, 0.9913, 0.9927
CMYK	0.00, 0.99, 0.99, 0.37
HSL	0°, 98%, 32%
HSV	0°, 99%, 63%
XYZ	14.5542, 7.5373, 0.7412
YIQ	49.2420, 94.1680, 33.4960

Conversions

Conversions Part 2

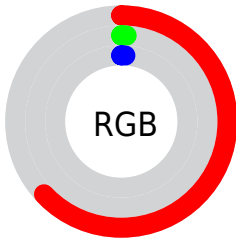
Format	Color
RYB	160, 2, 2
Decimal	10486274
CIELab	33.00, 56.29, 46.30
CIElCh	33, 72.883, 39.435
Yxy	7.5373, 0.6374, 0.3301
Android (android.graphics.Color)	4288676354 (0xFFA00202)
YUV	49.2420, -23.2903, 97.1348
Hunter-Lab	27.4541, 46.5834, 17.6173

Details

The CIELCh color **33, 72.883, 39.435** is a dark color, and the websafe version is hex **990000**. A complement of this color would be **60, 35.198, 196.742**, and the grayscale version is **21, 0.004, 296.813**.

A 20% lighter version of the original color is **53, 72.865, 39.440**, and **18, 48.773, 35.419** is the 20% darker color. If you saturate the color by 10%, you get **33, 73.502, 39.744**, and if you desaturate by 10%, it is **34, 67.361, 36.526**.

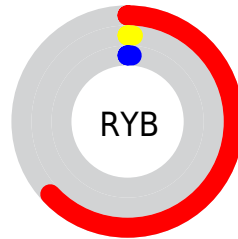
Distribution



Red (63%)

Green (1%)

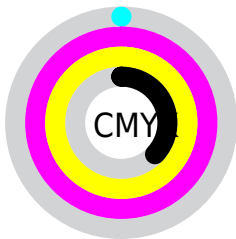
Blue (1%)



Red (63%)

Yellow (1%)

Blue (1%)

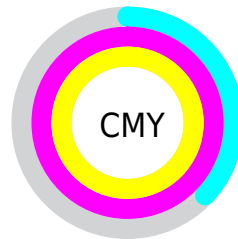


Cyan (0%)

Magenta (99%)

Yellow (99%)

Black (37%)



Cyan (37%)

Magenta (99%)

Yellow (99%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 33, 72.883, 39.435 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 33, 72.883, 39.435 by changing the saturation by 10% instead.

 33, 72.883, 39.435

 33, 72.883, 39.435

 100, 72.883,
39.435

 23, 72.883, 39.435

 53, 72.883, 39.435

 13, 72.883, 39.435

 63, 72.883, 39.435

 3, 72.883, 39.435

 73, 72.883, 39.435

 0, 72.883, 39.435

 83, 72.883, 39.435

 93, 72.883, 39.435

 33, 72.883, 39.435

 33, 72.883, 39.435

 33, 73.502, 39.744

 34, 67.361, 36.526

■ 36, 60.228, 33.062

■ 38, 52.199, 29.778

■ 41, 43.834, 27.029

■ 44, 35.465, 24.852

■ 48, 27.329, 23.168

■ 53, 19.585, 21.872

■ 57, 12.320, 20.867

■ 62, 5.561, 20.055

Harmonies

Complementary

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



33, 72.883, 39.435



60, 35.198, 196.742

Rectangle

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



33, 72.883, 39.435



33, 72.883, 89.435



33, 72.883, 219.435



33, 72.883, 269.435

Sweetspot

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



33, 72.880, 39.437



67, 25.483, 22.073



38, 81.362, 328.222



33, 17.598, 22.567



92, 0.011, 296.813



44, 0.006, 296.813

Same Dimension

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



33, 72.880, 39.437



44, 90.009, 40.021



43, 59.485, 61.253



31, 3.526, 20.086



29, 67.060, 39.200



1, 4.463, 19.588

Inverse Universe

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



60, 35.198, 196.742



76, 43.004, 196.746



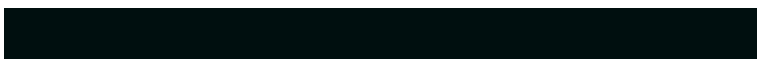
35, 49.850, 283.064



33, 3.331, 199.197



53, 32.437, 196.736



3, 4.459, 199.664

Previews

White Background



This preview shows how the CIELCh color 33, 72.883, 39.435 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 33, 72.883, 39.435 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 33, 72.883, 39.435

Background



This preview shows how black text looks on a background with the CIELCh color 33, 72.883, 39.435.



This preview shows how white text looks on a background with the CIELCh color 33, 72.883, 39.435.

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

33, 72.824, 39.380

Protanopia

34, 35.097, 95.677

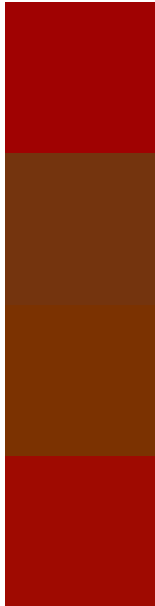
Deuteranopia

34, 43.044, 85.060



Tritanopia
33, 71.802, 41.058

Trichromacy



Original Color
33, 72.824, 39.380

Protanomaly
30, 43.554, 53.709

Deuteranomaly
31, 50.930, 54.545

Tritanomaly
33, 72.025, 40.308

Monochromacy



Original Color
33, 72.824, 39.380

Achromatopsia
20, 0.004, 296.813

Achromatomaly
21, 29.588, 27.238

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 33, 72.883, 39.435 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(160, 2, 2)` looks like.

```
.text, #text, p{  
    color:rgb(160, 2, 2)  
}
```

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(160, 2, 2) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(160, 2, 2) }
```

Border

The CSS property to change the border of an element to CIELCh 33, 72.883, 39.435 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(160, 2, 2) }
```

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

```
.border{ border-color:rgb(160, 2, 2) }
```

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

Here you see how a box with a 4 pixel `rgb(160, 2, 2)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(160, 2, 2); -webkit-box-shadow:4px  
4px 4px 4px rgb(160, 2, 2); box-shadow:4px  
4px 4px 4px rgb(160, 2, 2) }
```

Background

The CSS property to change the background color of an element to CIELCh 33, 72.883, 39.435 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(160, 2, 2) }
```

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

```
.background{ background-color: rgb(160, 2,  
2) }
```

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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