

Converting Colors

CIELCh(20, 49.829, 32.977)

Have a look what the booklet for
CIELCh(20, 49.829, 32.977) contains.

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Color

CIELCh(20, 49.712, 33.120)

Conversions

Conversions Part 1

Format	Color
Hex	680008
RGB	104, 0, 8
RGB Percent	41%, 0%, 3%
CMY	0.5909, 0.9984, 0.9672
CMYK	0.00, 1.00, 0.92, 0.59
HSL	355°, 99%, 21%
HSV	355°, 100%, 41%
XYZ	5.7963, 2.9891, 0.5118
YIQ	32.0080, 59.4160, 24.5360

Conversions

Conversions Part 2

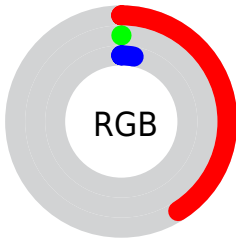
Format	Color
R_{YB}	104, 0, 8
Decimal	6815752
CIE _{Lab}	20.00, 41.64, 27.16
CIE _{LCh}	20, 49.712, 33.120
Yxy	2.9891, 0.6235, 0.3215
Android (android.graphics.Color)	4285005832 (0xFF680008)
YUV	32.0080, -11.8359, 63.1370
Hunter-Lab	17.2889, 29.5891, 10.3471

Details

The CIELCh color **20, 49.712, 33.120** is a dark color, and the websafe version is hex **660000**. A complement of this color would be **39, 27.670, 185.885**, and the grayscale version is **12, 0.003, 296.813**.

A 20% lighter version of the original color is **40, 49.781, 33.046**, and **6, 26.978, 20.143** is the 20% darker color. If you saturate the color by 10%, you get **20, 49.845, 33.167**, and if you desaturate by 10%, it is **21, 45.873, 30.889**.

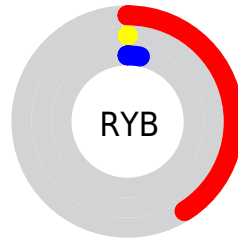
Distribution



Red (41%)

Green (0%)

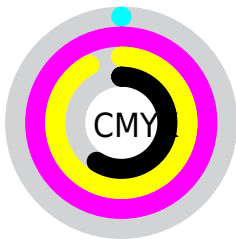
Blue (3%)



Red (41%)

Yellow (0%)

Blue (3%)

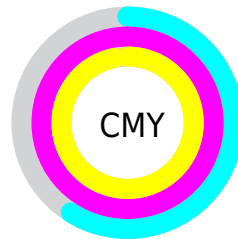


Cyan (0%)

Magenta (100%)

Yellow (92%)

Black (59%)



Cyan (59%)

Magenta (100%)

Yellow (97%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 20, 49.712, 33.120 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 20, 49.712, 33.120 by changing the saturation by 10% instead.

■ 20, 49.712, 33.120

■ 20, 49.712, 33.120

■ 100, 49.712,
33.120

■ 10, 49.712, 33.120

■ 0, 49.712, 33.120

■ 40, 49.712, 33.120

■ 50, 49.712, 33.120

■ 60, 49.712, 33.120

■ 70, 49.712, 33.120

■ 80, 49.712, 33.120

■ 90, 49.712, 33.120

■ 20, 49.712, 33.120

■ 20, 49.712, 33.120

20, 49.845, 33.167

21, 45.873, 30.889

22, 41.080, 27.040

24, 35.854, 23.707

26, 30.382, 20.992

29, 24.835, 18.829

32, 19.361, 17.113

35, 14.073, 15.742

38, 9.039, 14.629

41, 4.292, 13.692

Harmonies

Complementary

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



20, 49.712, 33.120



39, 27.670, 185.885

Rectangle

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



20, 49.712, 33.120



20, 49.712, 83.120



20, 49.712, 213.120



20, 49.712, 263.120

Sweetspot

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



20, 49.710, 33.122



44, 17.694, 15.893



22, 60.097, 325.153



21, 12.275, 16.296



79, 0.010, 296.813



29, 0.005, 296.813

Same Dimension

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



20, 49.710, 33.122



27, 61.745, 35.680



26, 44.244, 55.710



19, 2.453, 13.627



22, 53.989, 34.263



51, 97.458, 37.611

Inverse Universe

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



20, 49.710, 33.122



27, 61.745, 35.680



25, 30.147, 271.530



19, 2.453, 13.627



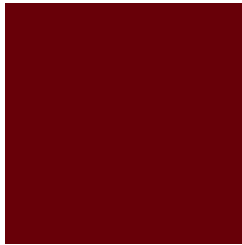
22, 53.989, 34.263



51, 97.458, 37.611

Previews

White Background



This preview shows how the CIE LCh color 20, 49.712, 33.120 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 20, 49.712, 33.120 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

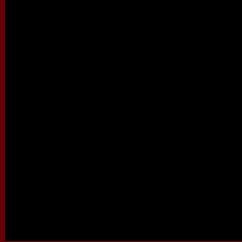
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 20, 49.712, 33.120

Background



This preview shows how black text looks on a background with the CIELCh color 20, 49.712, 33.120.



This preview shows how white text looks on a background with the CIELCh color 20, 49.712, 33.120.

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

20, 49.712, 33.120

Protanopia

22, 22.677, 96.700

Deuteranopia

22, 30.575, 86.366



Tritanopia
21, 49.986, 38.778

Trichromacy



Original Color
20, 49.712, 33.120

Protanomaly
19, 27.902, 50.606

Deuteranomaly
19, 33.921, 52.276

Tritanomaly
20, 49.713, 36.874

Monochromacy



Original Color
20, 49.712, 33.120

Achromatopsia
12, 0.003, 296.813

Achromatomaly
13, 20.051, 22.336

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 49.712, 33.120 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(104, 0, 8)` looks like.

```
.text, #text, p{  
    color:rgb(104, 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(104, 0, 8) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(104, 0, 8) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 49.712, 33.120 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(104, 0, 8) }
```

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

```
.border{ border-color:rgb(104, 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(104, 0, 8)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(104, 0, 8); -webkit-box-shadow:4px  
4px 4px 4px rgb(104, 0, 8); box-shadow:4px  
4px 4px 4px rgb(104, 0, 8) }
```

Background

The CSS property to change the background color of an element to CIELCh 20, 49.712, 33.120 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(104, 0, 8) }
```

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

```
.background{ background-color: rgb(104, 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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