

Converting Colors

CIELCh(20, 32.387, 64.850)

Have a look what the booklet for
CIELCh(20, 32.387, 64.850) contains.

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Color

CIELCh(20, 31.967, 64.231)

Conversions

Conversions Part 1

Format	Color
Hex	4B2701
RGB	75, 39, 1
RGB Percent	29%, 15%, 0%
CMY	0.7043, 0.8456, 0.9980
CMYK	0.00, 0.48, 0.99, 0.70
HSL	31°, 99%, 15%
HSV	31°, 99%, 30%
XYZ	3.6747, 2.9891, 0.3981
YIQ	45.4320, 33.6540, -4.1860

Conversions

Conversions Part 2

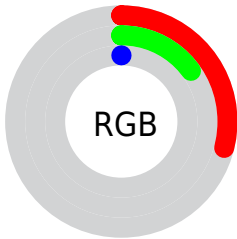
Format	Color
RYB	71, 75, 1
Decimal	4925185
CIELab	20.00, 13.90, 28.79
CIELCh	20, 31.967, 64.231
Yxy	2.9891, 0.5204, 0.4233
Android (android.graphics.Color)	4283115265 (0xFF4B2701)
YUV	45.4320, -21.9050, 25.9311
Hunter-Lab	17.2889, 7.6846, 10.7368

Details

The CIELCh color **20, 31.967, 64.231** is a dark color, and the websafe version is hex **663300**. A complement of this color would be **14, 27.996, 280.828**, and the grayscale version is **19, 0.004, 296.813**.

A 20% lighter version of the original color is **40, 31.677, 63.004**, and **2, 9.450, 16.959** is the 20% darker color. If you saturate the color by 10%, you get **20, 32.144, 64.118**, and if you desaturate by 10%, it is **21, 29.401, 66.109**.

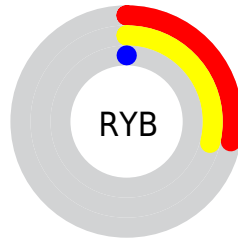
Distribution



Red (29%)

Green (15%)

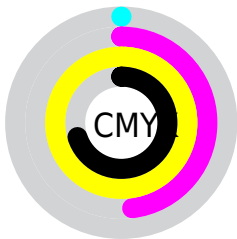
Blue (0%)



Red (28%)

Yellow (29%)

Blue (0%)

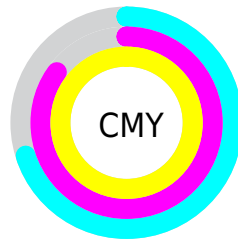


Cyan (0%)

Magenta (48%)

Yellow (99%)

Black (70%)



Cyan (70%)

Magenta (85%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 20, 31.967, 64.231 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, 31.967, 64.231 by changing the saturation by 10% instead.

■ 20, 31.967, 64.231

■ 20, 31.967, 64.231

■ 100, 31.967,
64.231

■ 10, 31.967, 64.231

■ 0, 31.967, 64.231

■ 40, 31.967, 64.231

■ 50, 31.967, 64.231

■ 60, 31.967, 64.231

■ 70, 31.967, 64.231

■ 80, 31.967, 64.231

■ 90, 31.967, 64.231

■ 20, 31.967, 64.231

■ 20, 31.967, 64.231

■ 20, 32.144, 64.118

■ 21, 29.401, 66.109

■ 22, 26.529, 68.001

■ 23, 22.966, 69.323

■ 24, 19.362, 70.557

■ 26, 15.812, 71.753

■ 27, 12.365, 72.928

■ 28, 9.038, 74.087

■ 29, 5.838, 75.227

■ 31, 2.759, 76.325

Harmonies

Complementary

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



20, 31.967, 64.231



14, 27.996, 280.828

Rectangle

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



20, 31.967, 64.231



20, 31.967, 114.231



20, 31.967, 244.231



20, 31.967, 294.231

Sweetspot

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



20, 31.967, 64.234



36, 11.425, 73.884



14, 35.178, 358.914



17, 7.720, 73.649



72, 0.009, 296.813



20, 0.004, 296.813

Same Dimension

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



20, 31.967, 64.234



26, 40.559, 64.193



31, 39.961, 103.822



15, 1.671, 76.391



28, 42.364, 64.123



62, 78.340, 61.590

Inverse Universe

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



14, 27.996, 280.828



19, 34.670, 282.817



5, 52.711, 304.813



14, 1.647, 258.500



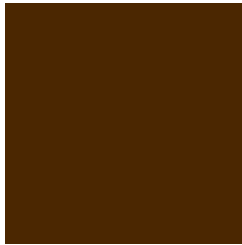
21, 36.166, 283.134



48, 70.213, 286.515

Previews

White Background



This preview shows how the CIELCh color 20, 31.967, 64.231 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, 31.967, 64.231 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, 31.967, 64.231

Background



This preview shows how black text looks on a background with the CIELCh color 20, 31.967, 64.231.



This preview shows how white text looks on a background with the CIELCh color 20, 31.967, 64.231.

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, 31.630, 63.842

Protanopia

20, 26.122, 96.710

Deuteranopia

20, 28.826, 86.565



Tritanopia
20, 20.347, 20.863

Trichromacy



Original Color
20, 31.630, 63.842

Protanomaly
20, 26.678, 82.915

Deuteranomaly
20, 29.392, 77.342

Tritanomaly
20, 23.272, 44.975

Monochromacy



Original Color
20, 31.630, 63.842

Achromatopsia
19, 0.004, 296.813

Achromatomaly
19, 12.500, 73.738

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 31.967, 64.231 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(75, 39, 1)` looks like.

```
.text, #text, p{  
    color:rgb(75, 39, 1)  
}
```

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(75, 39, 1) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(75, 39, 1) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 31.967, 64.231 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(75, 39, 1) }
```

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

```
.border{ border-color:rgb(75, 39, 1) }
```

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

Here you see how a box with a 4 pixel `rgb(75, 39, 1)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(75, 39, 1); -webkit-box-shadow:4px  
4px 4px 4px rgb(75, 39, 1); box-shadow:4px  
4px 4px 4px rgb(75, 39, 1) }
```

Background

The CSS property to change the background color of an element to CIELCh 20, 31.967, 64.231 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(75, 39, 1) }
```

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

```
.background{ background-color: rgb(75, 39,  
1) }
```

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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