

Converting Colors

CIELCh(20, 49.018, 32.326)

Have a look what the booklet for
CIELCh(20, 49.018, 32.326) contains.

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Color

CIELCh(20, 48.964, 32.154)

Conversions

Conversions Part 1

Format	Color
Hex	68010B
RGB	104, 1, 11
RGB Percent	41%, 0%, 4%
CMY	0.5922, 0.9960, 0.9569
CMYK	0.00, 0.99, 0.89, 0.59
HSL	354°, 98%, 21%
HSV	354°, 99%, 41%
XYZ	5.7803, 2.9891, 0.5890
YIQ	32.9370, 58.1780, 24.9460

Conversions

Conversions Part 2

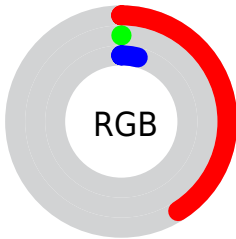
Format	Color
RYB	104, 1, 11
Decimal	6816011
CIELab	20.00, 41.45, 26.06
CIELCh	20, 48.964, 32.154
Yxy	2.9891, 0.6177, 0.3194
Android (android.graphics.Color)	4285006091 (0xFF68010B)
YUV	32.9370, -10.8149, 62.3223
Hunter-Lab	17.2889, 29.4239, 10.0824

Details

The CIELCh color **20, 48.964, 32.154** is a dark color, and the websafe version is hex **660000**. A complement of this color would be **39, 28.115, 183.398**, and the grayscale version is **13, 0.003, 296.813**.

A 20% lighter version of the original color is **40, 48.975, 32.335**, and **6, 26.978, 20.143** is the 20% darker color. If you saturate the color by 10%, you get **20, 49.306, 32.281**, and if you desaturate by 10%, it is **21, 44.970, 29.305**.

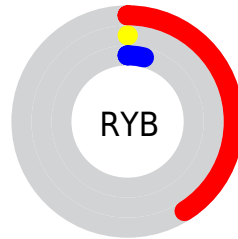
Distribution



Red (41%)

Green (0%)

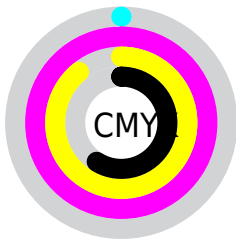
Blue (4%)



Red (41%)

Yellow (0%)

Blue (4%)

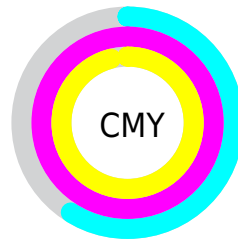


Cyan (0%)

Magenta (99%)

Yellow (89%)

Black (59%)



Cyan (59%)

Magenta (100%)

Yellow (96%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 20, 48.964, 32.154 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, 48.964, 32.154 by changing the saturation by 10% instead.

 20, 48.964, 32.154

 20, 48.964, 32.154

 100, 48.964,
32.154

 10, 48.964, 32.154

 0, 48.964, 32.154

 40, 48.964, 32.154

 50, 48.964, 32.154

 60, 48.964, 32.154

 70, 48.964, 32.154

 80, 48.964, 32.154

 90, 48.964, 32.154

 20, 48.964, 32.154

 20, 48.964, 32.154

20, 49.306, 32.281

21, 44.970, 29.305

22, 40.284, 25.367

24, 35.183, 22.037

26, 29.822, 19.339

29, 24.367, 17.188

32, 18.966, 15.474

35, 13.735, 14.097

38, 8.742, 12.971

41, 4.021, 12.010

Harmonies

Complementary

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



20, 48.964, 32.154



39, 28.115, 183.398

Rectangle

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



20, 48.964, 32.154



20, 48.964, 82.154



20, 48.964, 212.154



20, 48.964, 262.154

Sweetspot

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



20, 48.962, 32.156



44, 17.693, 14.326



22, 59.878, 324.555



21, 12.269, 14.738



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, 48.962, 32.156



27, 61.086, 34.728



26, 44.140, 54.502



19, 2.460, 11.998



22, 53.505, 33.399



51, 96.407, 36.735

Inverse Universe

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



20, 48.962, 32.156



27, 61.086, 34.728



25, 28.994, 269.002



19, 2.460, 11.998



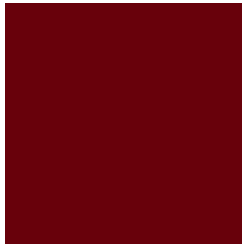
22, 53.505, 33.399



51, 96.407, 36.735

Previews

White Background



This preview shows how the CIELCh color 20, 48.964, 32.154 looks on a white background.

Color Contrast Check

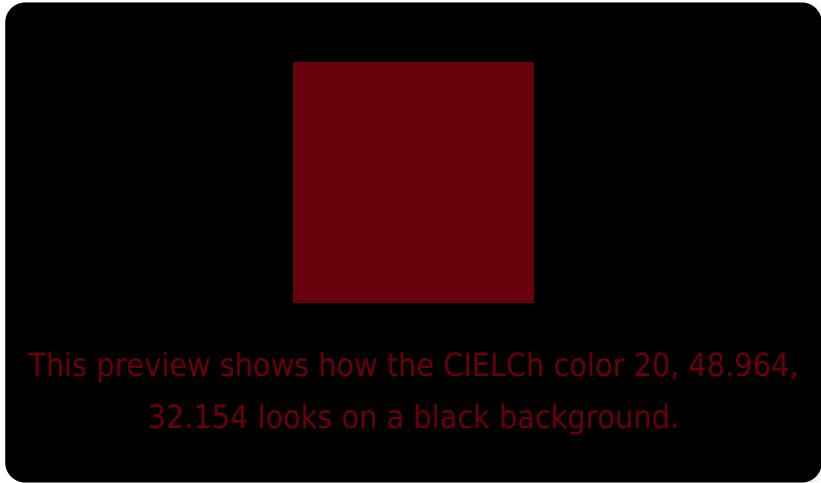
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



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, 48.964, 32.154

Background



This preview shows how black text looks on a background with the CIELCh color 20, 48.964, 32.154.



This preview shows how white text looks on a background with the CIELCh color 20, 48.964, 32.154.

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, 48.964, 32.154

Protanopia

22, 21.547, 96.566

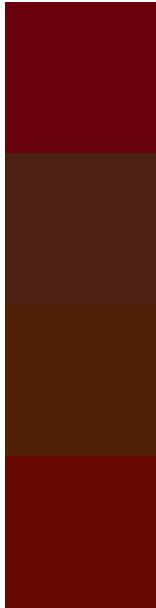
Deuteranopia

22, 30.575, 86.366



Tritanopia
20, 49.540, 38.714

Trichromacy



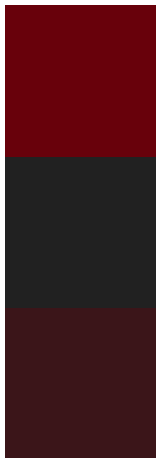
Original Color
20, 48.964, 32.154

Protanomaly
19, 26.816, 48.159

Deuteranomaly
19, 33.634, 51.807

Tritanomaly
20, 49.057, 36.391

Monochromacy



Original Color
20, 48.964, 32.154

Achromatopsia
13, 0.003, 296.813

Achromatomaly
13, 20.284, 18.728

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 48.964, 32.154 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, 1, 11)` looks like.

```
.text, #text, p{  
    color:rgb(104, 1, 11)  
}
```

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, 1, 11) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(104, 1, 11) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 48.964, 32.154 is called "border". The border property can be set on classes, ids or directly on the HTML element.

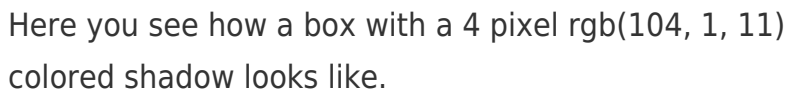
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(104, 1, 11) }
```

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

```
.border{ border-color:rgb(104, 1, 11) }
```

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



Here you see how a box with a 4 pixel `rgb(104, 1, 11)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(104, 1, 11); -webkit-box-  
shadow:4px 4px 4px 4px rgb(104, 1, 11);  
box-shadow:4px 4px 4px 4px rgb(104, 1, 11)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 20, 48.964, 32.154 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(104, 1, 11) }
```

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

```
.background{ background-color: rgb(104, 1,  
11) }
```

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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