

Converting Colors

CIELCh(20, 45.403, 33.076)

Have a look what the booklet for
CIELCh(20, 45.403, 33.076) contains.

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Color

CIELCh(20, 45.238, 33.311)

Conversions

Conversions Part 1

Format	Color
Hex	640B0D
RGB	100, 11, 13
RGB Percent	39%, 4%, 5%
CMY	0.6074, 0.9562, 0.9485
CMYK	0.00, 0.89, 0.87, 0.61
HSL	359°, 80%, 22%
HSV	359°, 89%, 39%
XYZ	5.4645, 2.9891, 0.6739
YIQ	37.8390, 52.4020, 19.4900

Conversions

Conversions Part 2

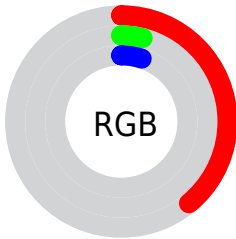
Format	Color
RYB	100, 11, 13
Decimal	6556429
CIELab	20.00, 37.81, 24.84
CIElCh	20, 45.238, 33.311
Yxy	2.9891, 0.5987, 0.3275
Android (android.graphics.Color)	4284746509 (0xFF640B0D)
YUV	37.8390, -12.2456, 54.5152
Hunter-Lab	17.2889, 26.1631, 9.7912

Details

The CIELCh color **20, 45.238, 33.311** is a dark color, and the websafe version is hex **660000**. A complement of this color would be **38, 24.707, 193.610**, and the grayscale version is **15, 0.003, 296.813**.

A 20% lighter version of the original color is **40, 45.079, 33.217**, and **6, 25.161, 19.052** is the 20% darker color. If you saturate the color by 10%, you get **19, 48.820, 34.729**, and if you desaturate by 10%, it is **21, 40.475, 30.337**.

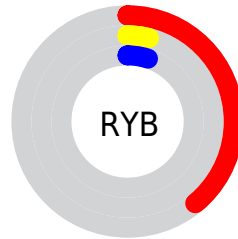
Distribution



Red (39%)

Green (4%)

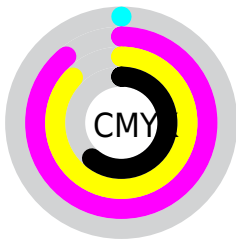
Blue (5%)



Red (39%)

Yellow (4%)

Blue (5%)

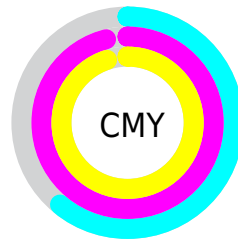


Cyan (0%)

Magenta (89%)

Yellow (87%)

Black (61%)



Cyan (61%)

Magenta (96%)

Yellow (95%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 20, 45.238, 33.311 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, 45.238, 33.311 by changing the saturation by 10% instead.

■ 20, 45.238, 33.311

■ 20, 45.238, 33.311

■ 100, 45.238,
33.311

■ 10, 45.238, 33.311

■ 0, 45.238, 33.311

■ 40, 45.238, 33.311

■ 50, 45.238, 33.311

■ 60, 45.238, 33.311

■ 70, 45.238, 33.311

■ 80, 45.238, 33.311

■ 90, 45.238, 33.311

■ 20, 45.238, 33.311

■ 20, 45.238, 33.311

19, 48.820, 34.729

21, 40.475, 30.337

19, 49.238, 34.854

23, 35.041, 27.247

25, 29.447, 24.712

28, 23.867, 22.697

30, 18.438, 21.114

33, 13.253, 19.870

36, 8.363, 18.880

40, 3.787, 18.057

43, 0.478, 198.215

Harmonies

Complementary

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



20, 45.238, 33.311



38, 24.707, 193.610

Rectangle

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



20, 45.238, 33.311



20, 45.238, 83.311



20, 45.238, 213.311



20, 45.238, 263.311

Sweetspot

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



20, 45.236, 33.313



44, 15.327, 19.755



23, 55.394, 326.905



21, 10.491, 20.012



78, 0.009, 296.813



28, 0.004, 296.813

Same Dimension

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



20, 45.236, 33.313



26, 61.453, 37.644



27, 37.797, 61.421



19, 2.443, 18.065



22, 55.335, 36.491



51, 99.710, 39.359

Inverse Universe

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



20, 45.236, 33.313



26, 61.453, 37.644



24, 28.806, 273.201



19, 2.443, 18.065



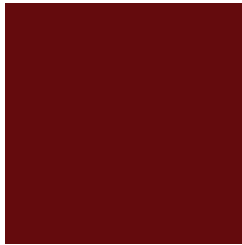
22, 55.335, 36.491



51, 99.710, 39.359

Previews

White Background



This preview shows how the CIELCh color 20, 45.238, 33.311 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

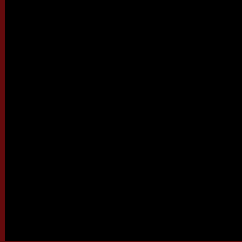
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 20, 45.238, 33.311

Background



This preview shows how black text looks on a background with the CIELCh color 20, 45.238, 33.311.

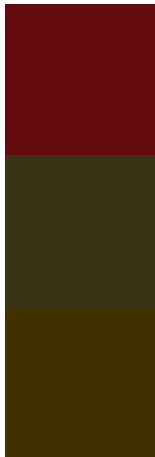


This preview shows how white text looks on a background with the CIELCh color 20, 45.238, 33.311.

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, 45.238, 33.311

Protanopia

21, 19.275, 95.979

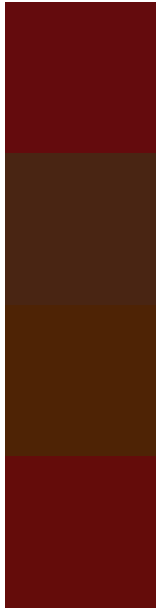
Deuteranopia

21, 30.071, 86.092



Tritanopia
20, 45.938, 35.451

Trichromacy



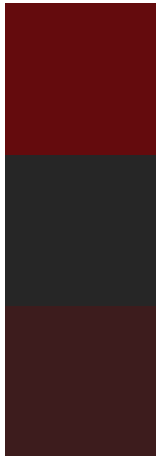
Original Color
20, 45.238, 33.311

Protanomaly
19, 24.479, 51.668

Deuteranomaly
19, 31.969, 55.507

Tritanomaly
20, 45.731, 35.025

Monochromacy



Original Color
20, 45.238, 33.311

Achromatopsia
15, 0.003, 296.813

Achromatomaly
15, 17.536, 22.321

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 45.238, 33.311 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(100, 11, 13)` looks like.

```
.text, #text, p{  
    color:rgb(100, 11, 13)  
}
```

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(100, 11, 13) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(100, 11, 13) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 45.238, 33.311 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(100, 11, 13) }
```

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

```
.border{ border-color:rgb(100, 11, 13) }
```

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

Here you see how a box with a 4 pixel rgb(100, 11, 13) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(100, 11, 13); -webkit-box-  
shadow:4px 4px 4px 4px rgb(100, 11, 13);  
box-shadow:4px 4px 4px 4px rgb(100, 11,  
13) }
```

Background

The CSS property to change the background color of an element to CIELCh 20, 45.238, 33.311 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(100, 11, 13) }
```

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

```
.background{ background-color: rgb(100, 11,  
13) }
```

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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