

Converting Colors

CIELCh(20, 45.898, 34.409)

Have a look what the booklet for
CIELCh(20, 45.898, 34.409) contains.

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Color

CIELCh(20, 45.682, 34.283)

Conversions

Conversions Part 1

Format	Color
Hex	640B0B
RGB	100, 11, 11
RGB Percent	39%, 4%, 4%
CMY	0.6071, 0.9559, 0.9561
CMYK	0.00, 0.89, 0.89, 0.61
HSL	0°, 80%, 22%
HSV	0°, 89%, 39%
XYZ	5.4594, 2.9891, 0.6118
YIQ	37.6110, 53.0440, 18.8680

Conversions

Conversions Part 2

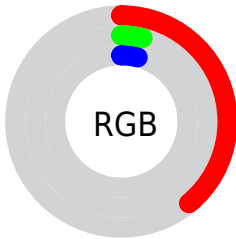
Format	Color
RYB	100, 11, 11
Decimal	6556427
CIELab	20.00, 37.75, 25.73
CIElCh	20, 45.682, 34.283
Yxy	2.9891, 0.6026, 0.3299
Android (android.graphics.Color)	4284746507 (0xFF640B0B)
YUV	37.6110, -13.1192, 54.7152
Hunter-Lab	17.2889, 26.1105, 10.0041

Details

The CIELCh color **20, 45.682, 34.283** is a dark color, and the websafe version is hex **660000**. A complement of this color would be **38, 24.357, 196.561**, and the grayscale version is **15, 0.003, 296.813**.

A 20% lighter version of the original color is **40, 45.618, 34.533**, and **6, 25.161, 19.052** is the 20% darker color. If you saturate the color by 10%, you get **19, 49.278, 35.609**, and if you desaturate by 10%, it is **21, 40.973, 31.752**.

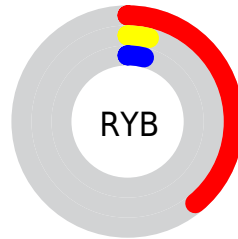
Distribution



Red (39%)

Green (4%)

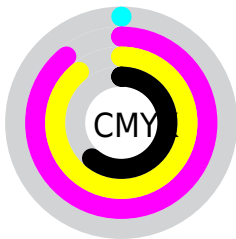
Blue (4%)



Red (39%)

Yellow (4%)

Blue (4%)

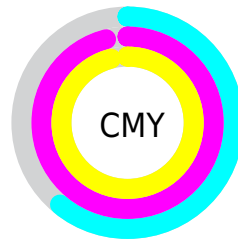


Cyan (0%)

Magenta (89%)

Yellow (89%)

Black (61%)



Cyan (61%)

Magenta (96%)

Yellow (96%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 20, 45.682, 34.283 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, 45.682, 34.283 by changing the saturation by 10% instead.

 20, 45.682, 34.283

 20, 45.682, 34.283

 100, 45.682,
34.283

 10, 45.682, 34.283

 40, 45.682, 34.283

 0, 45.682, 34.283

 50, 45.682, 34.283

 60, 45.682, 34.283

 70, 45.682, 34.283

 80, 45.682, 34.283

 90, 45.682, 34.283

 20, 45.682, 34.283

 20, 45.682, 34.283

■ 19, 49.278, 35.609

■ 21, 40.973, 31.752

■ 19, 49.709, 35.737

■ 23, 35.401, 28.756

■ 25, 29.685, 26.283

■ 28, 24.010, 24.320

■ 30, 18.512, 22.787

■ 33, 13.282, 21.593

■ 36, 8.366, 20.654

■ 40, 3.780, 19.881

■ 43, 0.485, 200.086

Harmonies

Complementary

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



20, 45.682, 34.283



38, 24.357, 196.561

Rectangle

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



20, 45.682, 34.283



20, 45.682, 84.283



20, 45.682, 214.283



20, 45.682, 264.283

Sweetspot

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



20, 45.680, 34.285



44, 15.361, 21.485



23, 55.422, 328.067



21, 10.518, 21.731



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, 45.680, 34.285



26, 62.111, 38.519



28, 37.566, 64.318



19, 2.442, 19.890



22, 55.888, 37.364



51, 100.584, 40.004

Inverse Universe

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



38, 24.357, 196.561



49, 30.385, 196.470



23, 30.560, 276.920



21, 2.317, 199.089



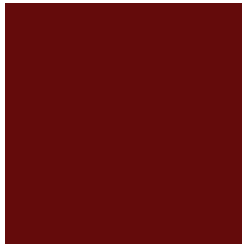
43, 27.776, 196.469



87, 48.166, 196.474

Previews

White Background



This preview shows how the CIELCh color 20, 45.682, 34.283 looks on a white background.

Color Contrast Check

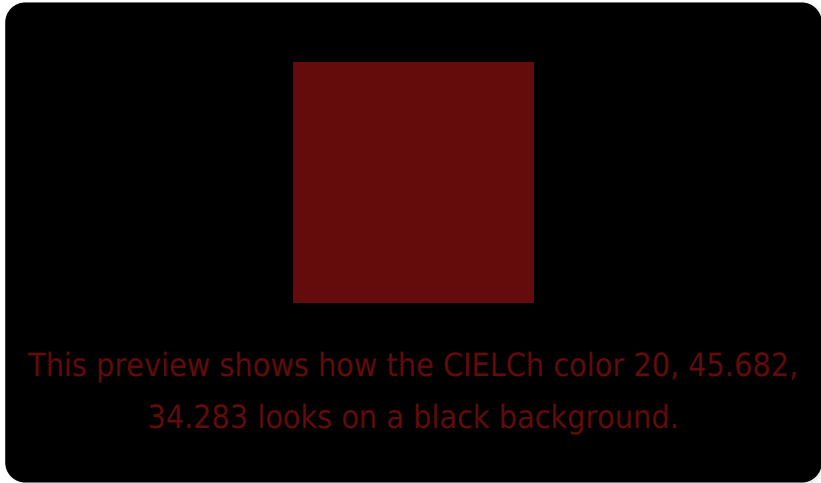
Large Text (above 18pt) WCAG AA ✓ Pass

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, 45.682, 34.283

Background



This preview shows how black text looks on a background with the CIELCh color 20, 45.682, 34.283.

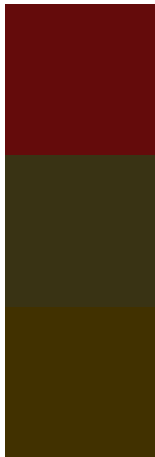


This preview shows how white text looks on a background with the CIELCh color 20, 45.682, 34.283.

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, 45.682, 34.283

Protanopia

21, 20.459, 96.209

Deuteranopia

21, 30.071, 86.092



Tritanopia
20, 45.938, 35.451

Trichromacy



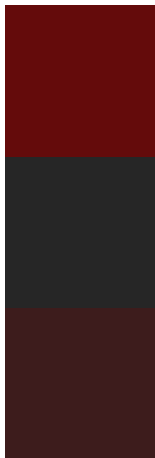
Original Color
20, 45.682, 34.283

Protanomaly
19, 25.336, 53.578

Deuteranomaly
19, 32.273, 55.970

Tritanomaly
20, 45.731, 35.025

Monochromacy



Original Color
20, 45.682, 34.283

Achromatopsia
15, 0.003, 296.813

Achromatomaly
15, 17.694, 24.517

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 45.682, 34.283 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, 11)` looks like.

```
.text, #text, p{  
    color:rgb(100, 11, 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(100, 11, 11) colored shadow looks like.

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

Border

The CSS property to change the border of an element to CIELCh 20, 45.682, 34.283 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, 11) }
```

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

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

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, 11)` colored shadow looks like.

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

Background

The CSS property to change the background color of an element to CIELCh 20, 45.682, 34.283 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, 11) }
```

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

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