

Converting Colors

CIELCh(20, 45.650, 24.476)

Have a look what the booklet for
CIELCh(20, 45.650, 24.476) contains.

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Color

CIELCh(20, 45.705, 24.492)

Conversions

Conversions Part 1

Format	Color
Hex	670117
RGB	103, 1, 23
RGB Percent	40%, 0%, 9%
CMY	0.5951, 0.9949, 0.9091
CMYK	0.00, 0.99, 0.78, 0.60
HSL	347°, 97%, 21%
HSV	347°, 99%, 40%
XYZ	5.7926, 2.9891, 1.0913
YIQ	34.0060, 53.7300, 28.4660

Conversions

Conversions Part 2

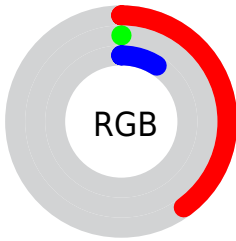
Format	Color
RYB	103, 1, 23
Decimal	6750487
CIELab	20.00, 41.59, 18.95
CIElCh	20, 45.705, 24.492
Yxy	2.9891, 0.5867, 0.3028
Android (android.graphics.Color)	4284940567 (0xFF670117)
YUV	34.0060, -5.4260, 60.5077
Hunter-Lab	17.2889, 29.5501, 8.3597

Details

The CIELCh color **20, 45.705, 24.492** is a dark color, and the websafe version is hex **660000**. A complement of this color would be **38, 31.916, 170.714**, and the grayscale version is **13, 0.003, 296.813**.

A 20% lighter version of the original color is **40, 45.646, 24.870**, and **6, 26.978, 20.143** is the 20% darker color. If you saturate the color by 10%, you get **20, 46.197, 24.974**, and if you desaturate by 10%, it is **21, 42.084, 20.266**.

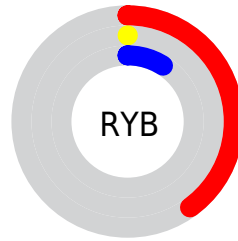
Distribution



Red (40%)

Green (0%)

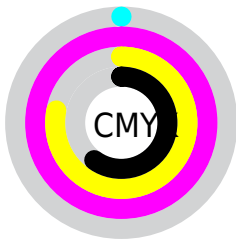
Blue (9%)



Red (40%)

Yellow (0%)

Blue (9%)

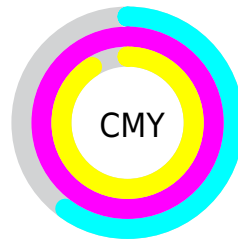


Cyan (0%)

Magenta (99%)

Yellow (78%)

Black (60%)



Cyan (60%)

Magenta (99%)

Yellow (91%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 20, 45.705, 24.492 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, 45.705, 24.492 by changing the saturation by 10% instead.

 20, 45.705, 24.492

 20, 45.705, 24.492

 100, 45.705,
24.492

 10, 45.705, 24.492

 0, 45.705, 24.492

 40, 45.705, 24.492

 50, 45.705, 24.492

 60, 45.705, 24.492

 70, 45.705, 24.492

 80, 45.705, 24.492

 90, 45.705, 24.492

 20, 45.705, 24.492

 20, 45.705, 24.492

20, 46.197, 24.974

21, 42.084, 20.266

22, 38.276, 16.235

24, 33.903, 12.951

26, 29.088, 10.319

29, 24.013, 8.207

32, 18.851, 6.493

35, 13.738, 5.079

38, 8.768, 3.888

41, 3.993, 2.842

Harmonies

Complementary

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



20, 45.705, 24.492



38, 31.916, 170.714

Rectangle

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



20, 45.705, 24.492



20, 45.705, 74.492



20, 45.705, 204.492



20, 45.705, 254.492

Sweetspot

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



20, 45.703, 24.494



45, 17.969, 5.361



19, 60.233, 320.539



21, 12.426, 5.788



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, 45.703, 24.494



27, 56.730, 26.768



23, 45.864, 46.639



19, 2.542, 2.860



23, 50.052, 25.732



51, 89.328, 29.371

Inverse Universe

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



20, 45.703, 24.494



27, 56.730, 26.768



29, 23.897, 249.534



19, 2.542, 2.860



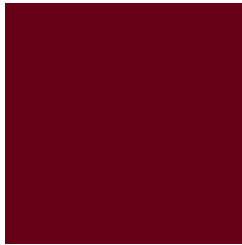
23, 50.052, 25.732



51, 89.328, 29.371

Previews

White Background



This preview shows how the CIELCh color 20, 45.705, 24.492 looks on a white background.

Color Contrast Check

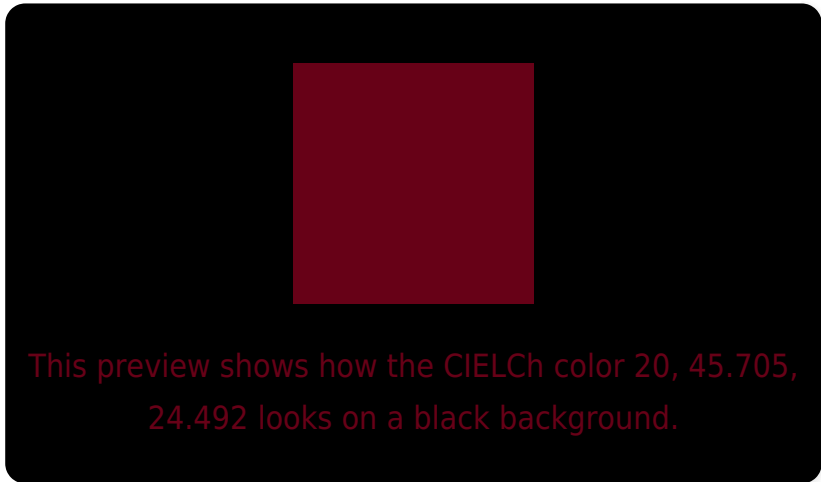
Large Text (above 18pt) WCAG AA ✓ Pass

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

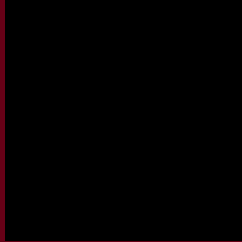
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 20, 45.705, 24.492

Background



This preview shows how black text looks on a background with the CIELCh color 20, 45.705, 24.492.



This preview shows how white text looks on a background with the CIELCh color 20, 45.705, 24.492.

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, 45.705, 24.492

Protanopia

22, 11.616, 94.749

Deuteranopia

22, 23.345, 82.803



Tritanopia
20, 48.423, 36.782

Trichromacy



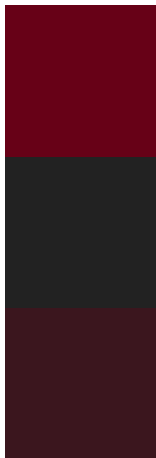
Original Color
20, 45.705, 24.492

Protanomaly
19, 21.490, 30.009

Deuteranomaly
19, 29.040, 42.208

Tritanomaly
20, 47.386, 33.102

Monochromacy



Original Color
20, 45.705, 24.492

Achromatopsia
13, 0.003, 296.813

Achromatomaly
13, 19.510, 9.911

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 45.705, 24.492 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(103, 1, 23)` looks like.

```
.text, #text, p{  
    color:rgb(103, 1, 23)  
}
```

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(103, 1, 23) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 1, 23) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 45.705, 24.492 is called "border". The border property can be set on classes, ids or directly on the HTML element.

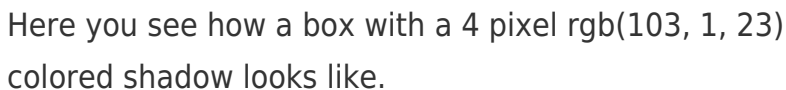
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(103, 1, 23) }
```

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

```
.border{ border-color:rgb(103, 1, 23) }
```

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



Here you see how a box with a 4 pixel `rgb(103, 1, 23)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(103, 1, 23); -webkit-box-shadow:4px 4px 4px 4px rgb(103, 1, 23); box-shadow:4px 4px 4px 4px rgb(103, 1, 23) }
```

Background

The CSS property to change the background color of an element to CIELCh 20, 45.705, 24.492 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 1, 23) }
```

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

```
.background{ background-color: rgb(103, 1,  
23) }
```

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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