

Converting Colors

CIELCh(20, 45.550, 24.142)

Have a look what the booklet for
CIELCh(20, 45.550, 24.142) contains.

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Color

CIELCh(20, 45.471, 23.696)

Conversions

Conversions Part 1

Format	Color
Hex	670118
RGB	103, 1, 24
RGB Percent	40%, 0%, 9%
CMY	0.5953, 0.9951, 0.9053
CMYK	0.00, 0.99, 0.77, 0.60
HSL	347°, 98%, 20%
HSV	347°, 99%, 40%
XYZ	5.7965, 2.9891, 1.1432
YIQ	34.1200, 53.4090, 28.7770

Conversions

Conversions Part 2

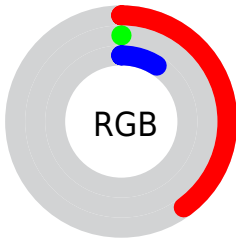
Format	Color
RYB	103, 1, 24
Decimal	6750488
CIELab	20.00, 41.64, 18.27
CIElCh	20, 45.471, 23.696
Yxy	2.9891, 0.5838, 0.3010
Android (android.graphics.Color)	4284940568 (0xFF670118)
YUV	34.1200, -4.9892, 60.4078
Hunter-Lab	17.2889, 29.5911, 8.1816

Details

The CIELCh color **20, 45.471, 23.696** is a dark color, and the websafe version is hex **660000**. A complement of this color would be **38, 32.300, 169.767**, and the grayscale version is **13, 0.003, 296.813**.

A 20% lighter version of the original color is **40, 45.301, 23.424**, and **6, 26.978, 20.143** is the 20% darker color. If you saturate the color by 10%, you get **20, 45.933, 24.160**, and if you desaturate by 10%, it is **21, 41.930, 19.469**.

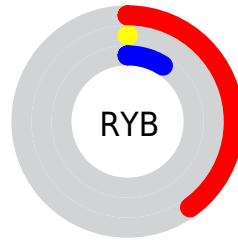
Distribution



Red (40%)

Green (0%)

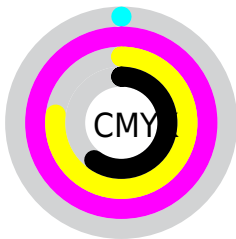
Blue (9%)



Red (40%)

Yellow (0%)

Blue (9%)

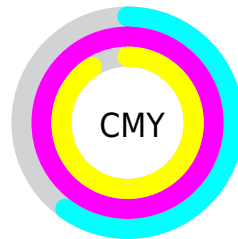


Cyan (0%)

Magenta (99%)

Yellow (77%)

Black (60%)



Cyan (60%)

Magenta (100%)

Yellow (91%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 20, 45.471, 23.696 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, 45.471, 23.696 by changing the saturation by 10% instead.

 20, 45.471, 23.696

 20, 45.471, 23.696

 100, 45.471,
23.696

 10, 45.471, 23.696

 0, 45.471, 23.696

 40, 45.471, 23.696

 50, 45.471, 23.696

 60, 45.471, 23.696

 70, 45.471, 23.696

 80, 45.471, 23.696

 90, 45.471, 23.696

 20, 45.471, 23.696

 20, 45.471, 23.696

20, 45.933, 24.160

21, 41.930, 19.469

22, 38.199, 15.449

24, 33.882, 12.181

26, 29.108, 9.562

29, 24.057, 7.459

32, 18.907, 5.751

35, 13.797, 4.339

38, 8.820, 3.147

41, 4.032, 2.099

Harmonies

Complementary

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



20, 45.471, 23.696



38, 32.300, 169.767

Rectangle

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



20, 45.471, 23.696



20, 45.471, 73.696



20, 45.471, 203.696



20, 45.471, 253.696

Sweetspot

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



20, 45.469, 23.698



45, 18.014, 4.613



19, 60.367, 319.992



21, 12.454, 5.039



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, 45.469, 23.698



27, 56.395, 25.966



23, 46.194, 45.678



19, 2.552, 2.112



23, 49.771, 24.925



51, 88.739, 28.593

Inverse Universe

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



20, 45.469, 23.698



27, 56.395, 25.966



30, 23.453, 246.354



19, 2.552, 2.112



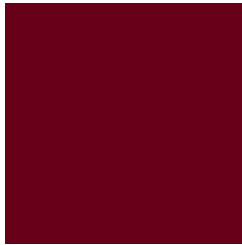
23, 49.771, 24.925



51, 88.739, 28.593

Previews

White Background



This preview shows how the CIELCh color 20, 45.471, 23.696 looks on a white background.

Color Contrast Check

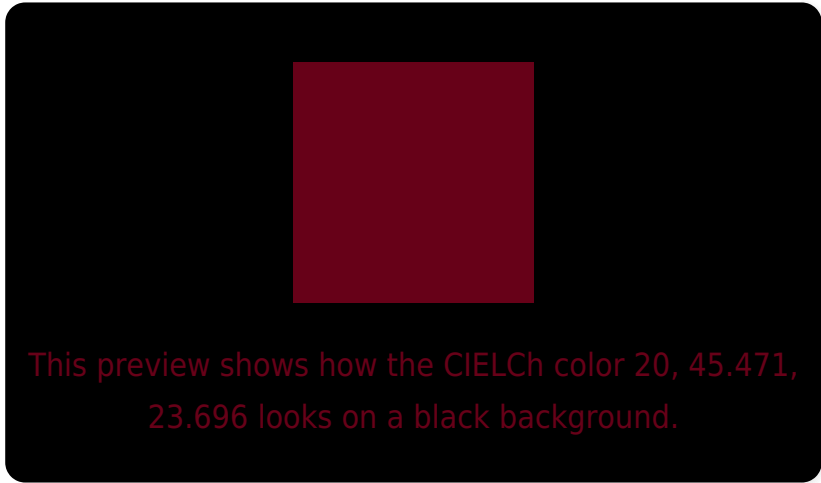
Large Text (above 18pt) WCAG AA ✓ Pass

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, 45.471, 23.696

Background



This preview shows how black text looks on a background with the CIELCh color 20, 45.471, 23.696.



This preview shows how white text looks on a background with the CIELCh color 20, 45.471, 23.696.

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, 45.471, 23.696

Protanopia

22, 10.331, 93.571

Deuteranopia

22, 22.569, 83.702



Tritanopia
20, 48.207, 36.385

Trichromacy



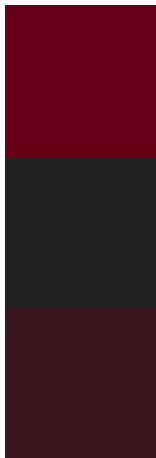
Original Color
20, 45.471, 23.696

Protanomaly
19, 21.261, 28.319

Deuteranomaly
19, 28.164, 41.392

Tritanomaly
20, 47.162, 32.619

Monochromacy



Original Color
20, 45.471, 23.696

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, 45.471, 23.696 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, 24)` looks like.

```
.text, #text, p{  
    color:rgb(103, 1, 24)  
}
```

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, 24) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 1, 24) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 45.471, 23.696 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, 24) }
```

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

```
.border{ border-color:rgb(103, 1, 24) }
```

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, 24)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 1, 24); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 1, 24);  
box-shadow:4px 4px 4px 4px rgb(103, 1, 24)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 20, 45.471, 23.696 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, 24) }
```

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

```
.background{ background-color: rgb(103, 1,  
24) }
```

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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