

Converting Colors

CIELCh(19, 47.652, 21.509)

Have a look what the booklet for
CIELCh(19, 47.652, 21.509) contains.

CIELCh(20, 45.663, 23.447)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	20
<i>Color Blindness Simulation</i>	23
<i>CSS Examples</i>	26

Color

CIELCh(20, 45.663, 23.447)

Conversions

Conversions Part 1

Format	Color
Hex	670118
RGB	103, 1, 24
RGB Percent	40%, 0%, 9%
CMY	0.5943, 0.9979, 0.9047
CMYK	0.00, 0.99, 0.76, 0.59
HSL	346°, 99%, 20%
HSV	346°, 99%, 41%
XYZ	5.8191, 2.9891, 1.1515
YIQ	34.1200, 53.4090, 28.7770

Conversions

Conversions Part 2

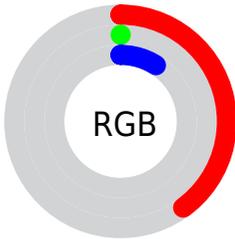
Format	Color
R_YB	103, 1, 24
Decimal	6750488
CIE _{Lab}	20.00, 41.89, 18.17
CIE _{LCh}	20, 45.663, 23.447
Yxy	2.9891, 0.5843, 0.3001
Android (android.graphics.Color)	4284940568 (0xFF670118)
YUV	34.1200, -4.9892, 60.4078
Hunter-Lab	17.2889, 29.8242, 8.1534

Details

The CIELCh color **20, 45.663, 23.447** is a dark color, and the websafe version is hex **660000**. A complement of this color would be **38, 32.730, 169.061**, 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, 45.860, 23.649**, and if you desaturate by 10%, it is **21, 42.144, 19.254**.

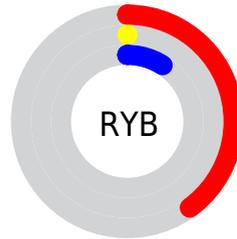
Distribution



Red (40%)

Green (0%)

Blue (9%)



Red (40%)

Yellow (0%)

Blue (9%)

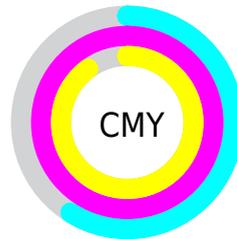


Cyan (0%)

Magenta (99%)

Yellow (76%)

Black (59%)



Cyan (59%)

Magenta (100%)

Yellow (90%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 20, 45.663, 23.447 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, 45.663, 23.447 by changing the saturation by 10% instead.

 20, 45.663, 23.447

 20, 45.663, 23.447

 100, 45.663,
23.447

 10, 45.663, 23.447

 40, 45.663, 23.447

 0, 45.663, 23.447

 50, 45.663, 23.447

 60, 45.663, 23.447

 70, 45.663, 23.447

 80, 45.663, 23.447

 90, 45.663, 23.447

 20, 45.663, 23.447

 20, 45.663, 23.447

20, 45.860, 23.649

21, 42.144, 19.254

22, 38.495, 15.189

24, 34.244, 11.882

26, 29.510, 9.232

29, 24.477, 7.105

32, 19.326, 5.377

34, 14.199, 3.950

38, 9.195, 2.745

41, 4.375, 1.690

Harmonies

Complementary

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



20, 45.663, 23.447



38, 32.730, 169.061

Rectangle

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



20, 45.663, 23.447



20, 45.663, 73.447



20, 45.663, 203.447



20, 45.663, 253.447

Sweetspot

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



20, 45.661, 23.449



45, 18.045, 4.133



19, 60.706, 319.980



21, 12.474, 4.559



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, 45.661, 23.449



27, 56.184, 25.441



23, 46.585, 45.669



19, 2.559, 1.632



23, 49.595, 24.396



51, 88.366, 28.080

Inverse Universe

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



20, 45.661, 23.449



27, 56.184, 25.441



30, 23.582, 246.611



19, 2.559, 1.632



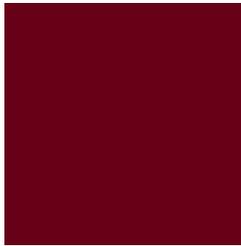
23, 49.595, 24.396



51, 88.366, 28.080

Previews

White Background



This preview shows how the CIELCh color 20, 45.663, 23.447 looks on a white background.

Color Contrast Check

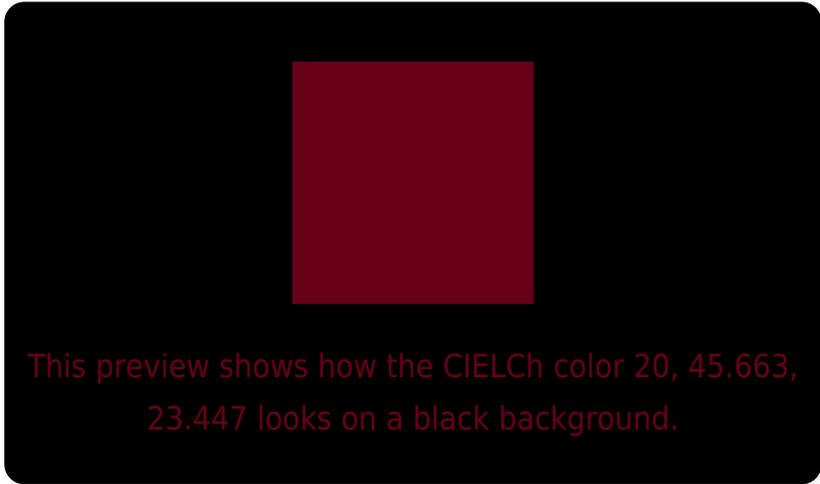
Large Text (above 18pt) WCAG AA ✓ Pass

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, 45.663, 23.447

Background



This preview shows how black text looks on a background with the CIELCh color 20, 45.663, 23.447.



This preview shows how white text looks on a background with the CIELCh color 20, 45.663, 23.447.

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, 22.806, 82.437



Tritanopia
20, 48.207, 36.385

Trichromacy



Original Color
20, 45.471, 23.696

Protanomaly
19, 21.655, 26.784

Deuteranomaly
19, 28.671, 41.192

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, 45.663, 23.447 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, 45.663, 23.447 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, 45.663, 23.447 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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