

Converting Colors

CIELCh(9, 77.799, 0.671)

Have a look what the booklet for
CIELCh(9, 77.799, 0.671) contains.

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Color

CIELCh(20, 44.834, 20.160)

Conversions

Conversions Part 1

Format	Color
Hex	67001C
RGB	103, 0, 28
RGB Percent	40%, 0%, 11%
CMY	0.5951, 0.9988, 0.8895
CMYK	0.00, 1.00, 0.73, 0.60
HSL	344°, 99%, 20%
HSV	344°, 100%, 40%
XYZ	5.8364, 2.9891, 1.3788
YIQ	33.9890, 52.4000, 30.5440

Conversions

Conversions Part 2

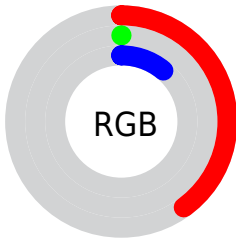
Format	Color
RYB	103, 0, 28
Decimal	6750236
CIELab	20.00, 42.09, 15.45
CIELCh	20, 44.834, 20.160
Yxy	2.9891, 0.5720, 0.2929
Android (android.graphics.Color)	4284940316 (0xFF67001C)
YUV	33.9890, -2.9526, 60.5226
Hunter-Lab	17.2889, 30.0024, 7.3737

Details

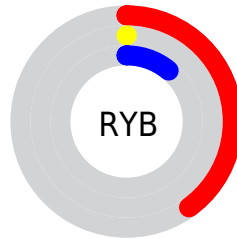
The CIELCh color **20, 44.834, 20.160** is a dark color, and the websafe version is hex **660000**. A complement of this color would be **38, 34.338, 165.552**, and the grayscale version is **13, 0.003, 296.813**.

A 20% lighter version of the original color is **40, 45.070, 19.969**, and **6, 26.978, 20.143** is the 20% darker color. If you saturate the color by 10%, you get **20, 44.934, 20.274**, and if you desaturate by 10%, it is **21, 41.628, 16.018**.

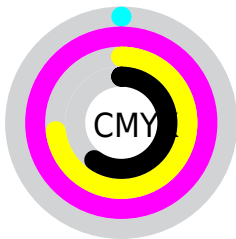
Distribution



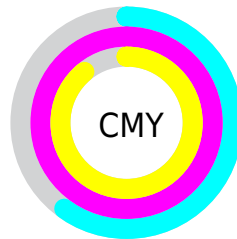
- Red (40%)
- Green (0%)
- Blue (11%)



- Red (40%)
- Yellow (0%)
- Blue (11%)



- Cyan (0%)
- Magenta (100%)
- Yellow (73%)
- Black (60%)



- Cyan (60%)
- Magenta (100%)
- Yellow (89%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 20, 44.834, 20.160 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, 44.834, 20.160 by changing the saturation by 10% instead.

 20, 44.834, 20.160

 20, 44.834, 20.160

 100, 44.834,
20.160

 10, 44.834, 20.160

 40, 44.834, 20.160

 0, 44.834, 20.160

 50, 44.834, 20.160

 60, 44.834, 20.160

 70, 44.834, 20.160

 80, 44.834, 20.160

 90, 44.834, 20.160

 20, 44.834, 20.160

 20, 44.834, 20.160

20, 44.934, 20.274

21, 41.628, 16.018

22, 38.273, 12.036

24, 34.241, 8.819

26, 29.657, 6.244

29, 24.713, 4.171

31, 19.600, 2.479

34, 14.471, 1.072

37, 9.434, 359.875

41, 4.554, 358.822

Harmonies

Complementary

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



20, 44.834, 20.160



38, 34.338, 165.552

Rectangle

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



20, 44.834, 20.160



20, 44.834, 70.160



20, 44.834, 200.160



20, 44.834, 250.160

Sweetspot

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



20, 44.832, 20.162



45, 18.264, 1.224



18, 61.170, 318.386



21, 12.614, 1.642



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, 44.832, 20.162



28, 55.002, 22.085



22, 47.561, 43.101



19, 2.604, 358.741



23, 48.618, 21.036



51, 86.223, 24.771

Inverse Universe

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



20, 44.832, 20.162



28, 55.002, 22.085



31, 22.646, 236.619



19, 2.604, 358.741



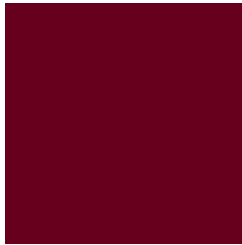
23, 48.618, 21.036



51, 86.223, 24.771

Previews

White Background



This preview shows how the CIELCh color 20, 44.834, 20.160 looks on a white background.

Color Contrast Check

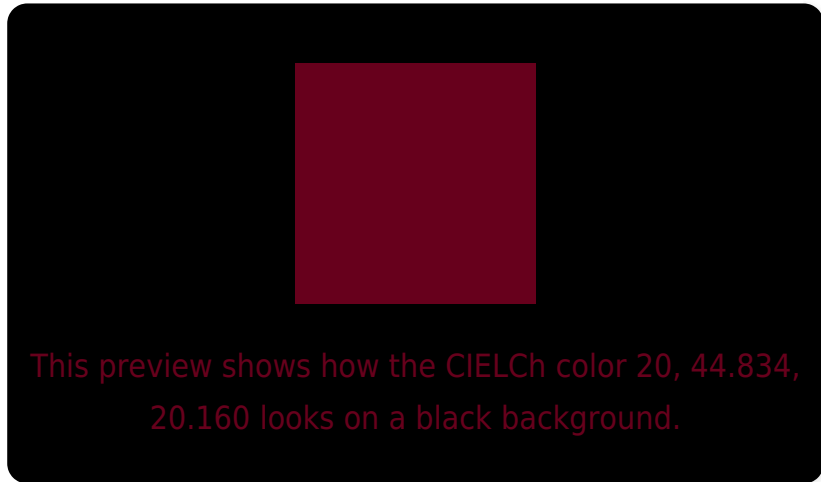
Large Text (above 18pt) WCAG AA ✓ Pass

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

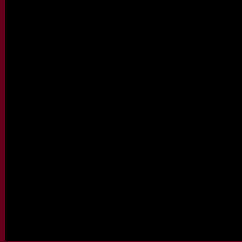
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 20, 44.834, 20.160

Background



This preview shows how black text looks on a background with the CIELCh color 20, 44.834, 20.160.



This preview shows how white text looks on a background with the CIELCh color 20, 44.834, 20.160.

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, 44.834, 20.160

Protanopia

22, 6.977, 92.110

Deuteranopia

22, 19.759, 81.510



Tritanopia
21, 47.485, 36.131

Trichromacy



Original Color
20, 44.834, 20.160

Protanomaly
19, 20.427, 17.585

Deuteranomaly
19, 26.442, 35.617

Tritanomaly
20, 46.533, 31.817

Monochromacy



Original Color
20, 44.834, 20.160

Achromatopsia
13, 0.003, 296.813

Achromatomaly
13, 19.589, 5.794

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 20, 44.834, 20.160 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, 0, 28)` looks like.

```
.text, #text, p{  
    color:rgb(103, 0, 28)  
}
```

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, 0, 28) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 0, 28) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 44.834, 20.160 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, 0, 28) }
```

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

```
.border{ border-color:rgb(103, 0, 28) }
```

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

Here you see how a box with a 4 pixel rgb(103, 0, 28) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 0, 28); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 0, 28);  
box-shadow:4px 4px 4px 4px rgb(103, 0, 28)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 20, 44.834, 20.160 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 0, 28) }
```

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

```
.background{ background-color: rgb(103, 0,  
28) }
```

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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