

Converting Colors

CIELCh(20, 45.246, 19.875)

Have a look what the booklet for
CIELCh(20, 45.246, 19.875) contains.

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Color

CIELCh(20, 45.208, 20.459)

Conversions

Conversions Part 1

Format	Color
Hex	68001C
RGB	104, 0, 28
RGB Percent	41%, 0%, 11%
CMY	0.5938, 1.0000, 0.8914
CMYK	0.00, 1.00, 0.73, 0.59
HSL	344°, 100%, 20%
HSV	344°, 100%, 41%
XYZ	5.8603, 2.9891, 1.3480
YIQ	34.2880, 52.9960, 30.7560

Conversions

Conversions Part 2

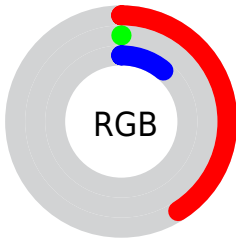
Format	Color
RYB	104, 0, 28
Decimal	6815772
CIELab	20.00, 42.36, 15.80
CIELCh	20, 45.208, 20.459
Yxy	2.9891, 0.5747, 0.2931
Android (android.graphics.Color)	4285005852 (0xFF68001C)
YUV	34.2880, -3.1000, 61.1374
Hunter-Lab	17.2889, 30.2495, 7.4795

Details

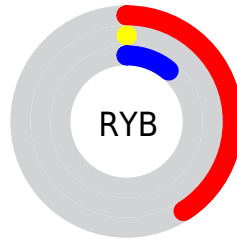
The CIELCh color **20, 45.208, 20.459** is a dark color, and the websafe version is hex **660000**. A complement of this color would be **38, 34.340, 165.772**, and the grayscale version is **13, 0.003, 296.813**.

A 20% lighter version of the original color is **40, 45.135, 20.612**, and **7, 27.542, 20.544** is the 20% darker color. If you saturate the color by 10%, you get **20, 45.106, 20.582**, and if you desaturate by 10%, it is **21, 41.859, 16.442**.

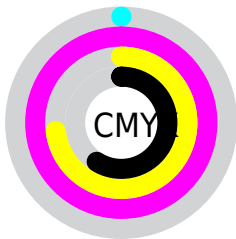
Distribution



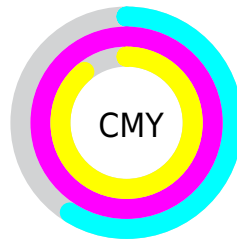
- Red (41%)
- Green (0%)
- Blue (11%)



- Red (41%)
- Yellow (0%)
- Blue (11%)



- Cyan (0%)
- Magenta (100%)
- Yellow (73%)
- Black (59%)



- Cyan (59%)
- Magenta (100%)
- Yellow (89%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 20, 45.208, 20.459 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, 45.208, 20.459 by changing the saturation by 10% instead.

 20, 45.208, 20.459

 20, 45.208, 20.459

 100, 45.208,
20.459

 10, 45.208, 20.459

 40, 45.208, 20.459

 0, 45.208, 20.459

 50, 45.208, 20.459

 60, 45.208, 20.459

 70, 45.208, 20.459

 80, 45.208, 20.459

 90, 45.208, 20.459

 20, 45.208, 20.459

 20, 45.208, 20.459

20, 45.106, 20.582

21, 41.859, 16.442

22, 38.497, 12.421

24, 34.458, 9.170

26, 29.867, 6.568

29, 24.912, 4.474

31, 19.786, 2.767

34, 14.644, 1.349

37, 9.593, 0.145

41, 4.701, 359.088

Harmonies

Complementary

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



20, 45.208, 20.459



38, 34.340, 165.772

Rectangle

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



20, 45.208, 20.459



20, 45.208, 70.459



20, 45.208, 200.459



20, 45.208, 250.459

Sweetspot

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



20, 45.106, 20.582



45, 18.244, 1.461



18, 61.419, 318.378



21, 12.601, 1.881



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, 45.106, 20.582



28, 55.092, 22.370



22, 47.822, 43.126



19, 2.600, 358.976



23, 48.691, 21.321



51, 86.389, 25.054

Inverse Universe

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



20, 45.106, 20.582



28, 55.092, 22.370



32, 22.727, 236.723



19, 2.600, 358.976



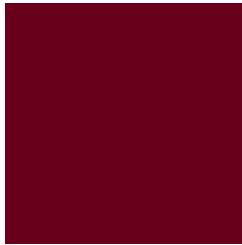
23, 48.691, 21.321



51, 86.389, 25.054

Previews

White Background



This preview shows how the CIE LCh color 20, 45.208, 20.459 looks on a white background.

Color Contrast Check

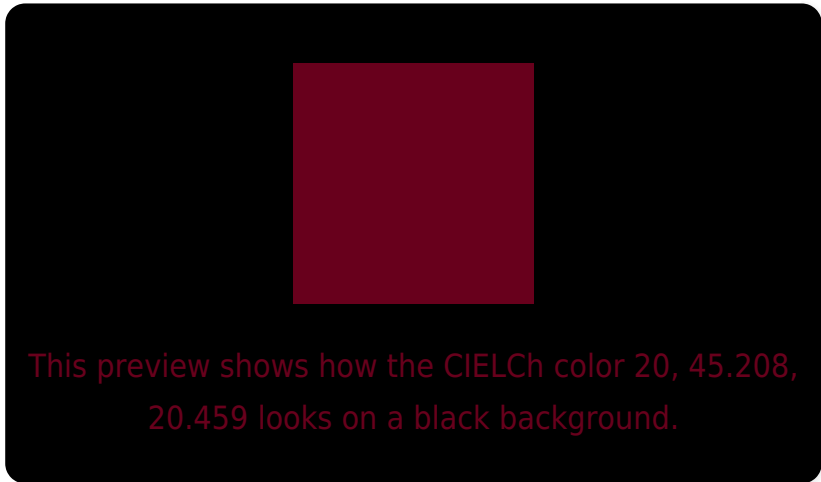
Large Text (above 18pt) WCAG AA ✓ Pass

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

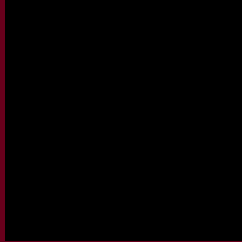
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 20, 45.208, 20.459

Background



This preview shows how black text looks on a background with the CIELCh color 20, 45.208, 20.459.

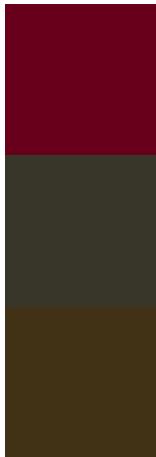


This preview shows how white text looks on a background with the CIELCh color 20, 45.208, 20.459.

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, 45.208, 20.459

Protanopia

22, 8.134, 97.758

Deuteranopia

22, 20.331, 82.021



Tritanopia
21, 47.636, 35.848

Trichromacy



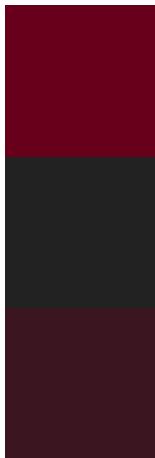
Original Color
20, 45.208, 20.459

Protanomaly
19, 20.058, 20.958

Deuteranomaly
19, 26.764, 36.850

Tritanomaly
20, 46.691, 31.559

Monochromacy



Original Color
20, 45.208, 20.459

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, 45.208, 20.459 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(104, 0, 28)` looks like.

```
.text, #text, p{  
    color:rgb(104, 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(104, 0, 28) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(104, 0, 28) }
```

Border

The CSS property to change the border of an element to CIELCh 20, 45.208, 20.459 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(104, 0, 28) }
```

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

```
.border{ border-color:rgb(104, 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(104, 0, 28)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(104, 0, 28); -webkit-box-  
shadow:4px 4px 4px 4px rgb(104, 0, 28);  
box-shadow:4px 4px 4px 4px rgb(104, 0, 28)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 20, 45.208, 20.459 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(104, 0, 28) }
```

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

```
.background{ background-color: rgb(104, 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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