

Converting Colors

CIELCh(21, 45.923, 31.248)

Have a look what the booklet for
CIELCh(21, 45.923, 31.248) contains.

CIELCh(21, 45.709, 30.889)	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(21, 45.709, 30.889)

Conversions

Conversions Part 1

Format	Color
Hex	680B12
RGB	104, 11, 18
RGB Percent	41%, 4%, 7%
CMY	0.5914, 0.9558, 0.9288
CMYK	0.00, 0.89, 0.83, 0.59
HSL	356°, 80%, 23%
HSV	356°, 89%, 41%
XYZ	5.9659, 3.2451, 0.8908
YIQ	39.6050, 53.1810, 21.8930

Conversions

Conversions Part 2

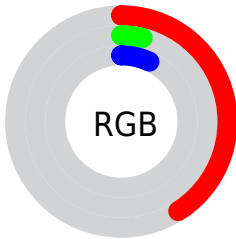
Format	Color
R_{YB}	104, 11, 18
Decimal	6818578
CIE Lab	21.00, 39.23, 23.47
CIE LCh	21, 45.709, 30.889
Yxy	3.2451, 0.5906, 0.3212
Android (android.graphics.Color)	4285008658 (0xFF680B12)
YUV	39.6050, -10.6513, 56.4744
Hunter-Lab	18.0142, 27.5905, 9.6782

Details

The CIELCh color **21, 45.709, 30.889** is a dark color, and the websafe version is hex **660000**. A complement of this color would be **39, 26.530, 187.065**, and the grayscale version is **16, 0.003, 296.813**.

A 20% lighter version of the original color is **41, 45.572, 31.155**, and **6, 27.039, 20.952** is the 20% darker color. If you saturate the color by 10%, you get **20, 49.562, 33.170**, and if you desaturate by 10%, it is **22, 40.873, 27.069**.

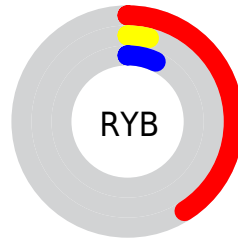
Distribution



Red (41%)

Green (4%)

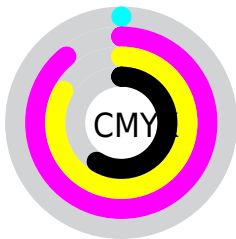
Blue (7%)



Red (41%)

Yellow (4%)

Blue (7%)

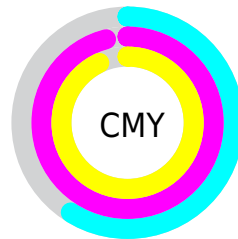


Cyan (0%)

Magenta (89%)

Yellow (83%)

Black (59%)



Cyan (59%)

Magenta (96%)

Yellow (93%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 21, 45.709, 30.889 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 21, 45.709, 30.889 by changing the saturation by 10% instead.

■ 21, 45.709, 30.889

■ 21, 45.709, 30.889

■ 100, 45.709,
30.889

■ 11, 45.709, 30.889

■ 41, 45.709, 30.889

■ 1, 45.709, 30.889

■ 51, 45.709, 30.889

■ 0, 45.709, 30.889

■ 61, 45.709, 30.889

■ 71, 45.709, 30.889

■ 81, 45.709, 30.889

■ 91, 45.709, 30.889

■ 21, 45.709, 30.889

■ 21, 45.709, 30.889

20, 49.562, 33.170

22, 40.873, 27.069

20, 49.855, 33.269

24, 35.618, 23.771

26, 30.130, 21.088

29, 24.576, 18.951

32, 19.107, 17.256

35, 13.830, 15.902

38, 8.811, 14.804

41, 4.081, 13.876

44, 0.355, 194.176

Harmonies

Complementary

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



21, 45.709, 30.889



39, 26.530, 187.065

Rectangle

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



21, 45.709, 30.889



21, 45.709, 80.889



21, 45.709, 210.889



21, 45.709, 260.889

Sweetspot

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



21, 45.707, 30.891



46, 15.779, 15.733



23, 57.220, 325.180



22, 10.793, 16.024



79, 0.010, 296.813



29, 0.005, 296.813

Same Dimension

The Same Dimension uses a secret algorithm to generate beautiful new colors.



21, 45.707, 30.891



27, 61.828, 35.798



27, 39.771, 57.139



19, 2.452, 13.851



22, 54.055, 34.379



51, 97.594, 37.721

Inverse Universe

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



21, 45.707, 30.891



27, 61.828, 35.798



26, 27.384, 267.220



19, 2.452, 13.851



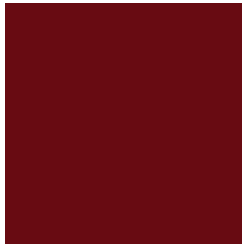
22, 54.055, 34.379



51, 97.594, 37.721

Previews

White Background



This preview shows how the CIELCh color 21, 45.709, 30.889 looks on a white background.

Color Contrast Check

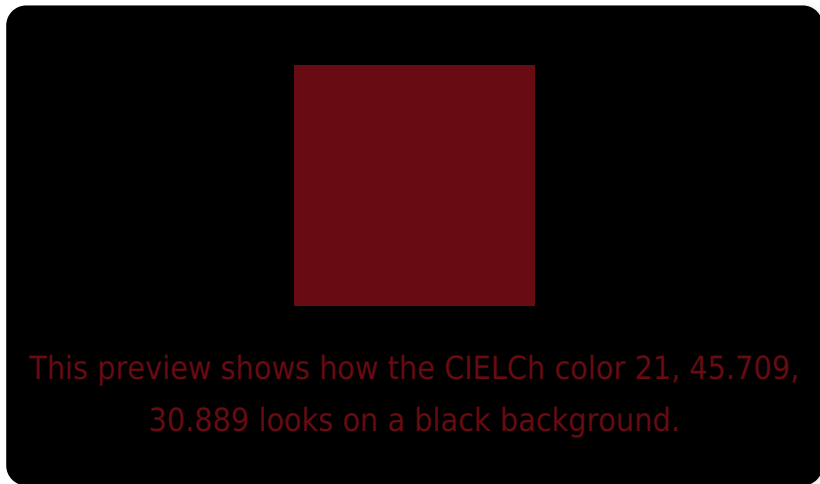
Large Text (above 18pt) WCAG AA ✓ Pass

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 21, 45.709, 30.889

Background



This preview shows how black text looks on a background with the CIELCh color 21, 45.709, 30.889.



This preview shows how white text looks on a background with the CIELCh color 21, 45.709, 30.889.

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

21, 45.709, 30.889

Protanopia

22, 16.753, 95.447

Deuteranopia

22, 27.916, 85.380



Tritanopia
21, 47.344, 35.694

Trichromacy



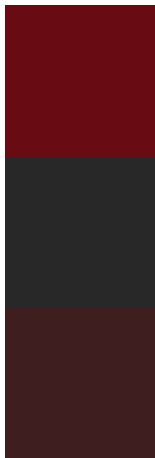
Original Color
21, 45.709, 30.889

Protanomaly
20, 23.167, 46.652

Deuteranomaly
20, 31.012, 53.134

Tritanomaly
21, 46.831, 34.049

Monochromacy



Original Color
21, 45.709, 30.889

Achromatopsia
16, 0.003, 296.813

Achromatomaly
16, 17.266, 19.841

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 21, 45.709, 30.889 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, 11, 18)` looks like.

```
.text, #text, p{  
    color:rgb(104, 11, 18)  
}
```

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, 11, 18) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(104, 11, 18) }
```

Border

The CSS property to change the border of an element to CIELCh 21, 45.709, 30.889 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, 11, 18) }
```

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

```
.border{ border-color:rgb(104, 11, 18) }
```

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

Here you see how a box with a 4 pixel rgb(104, 11, 18) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(104, 11, 18); -webkit-box-  
shadow:4px 4px 4px 4px rgb(104, 11, 18);  
box-shadow:4px 4px 4px 4px rgb(104, 11,  
18) }
```

Background

The CSS property to change the background color of an element to CIELCh 21, 45.709, 30.889 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(104, 11, 18) }
```

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

```
.background{ background-color: rgb(104, 11,  
18) }
```

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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