

Converting Colors

CIELCh(13, 72.506, 351.305)

Have a look what the booklet for
CIELCh(13, 72.506, 351.305)
contains.

CIELCh(21, 44.745, 1.794)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(21, 44.745, 1.794)

Conversions

Conversions Part 1

Format	Color
Hex	6A0032
RGB	106, 0, 50
RGB Percent	42%, 0%, 20%
CMY	0.5852, 1.0000, 0.8038
CMYK	0.00, 1.00, 0.53, 0.59
HSL	332°, 100%, 21%
HSV	332°, 100%, 41%
XYZ	6.4749, 3.2451, 3.3057
YIQ	37.3940, 47.1260, 38.0220

Conversions

Conversions Part 2

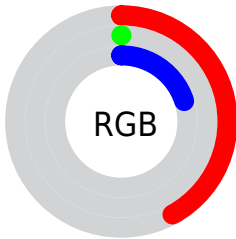
Format	Color
R_{YB}	106, 0, 50
Decimal	6946866
CIE Lab	21.00, 44.72, 1.40
CIE LCh	21, 44.745, 1.794
Yxy	3.2451, 0.4971, 0.2491
Android (android.graphics.Color)	4285136946 (0xFF6A0032)
YUV	37.3940, 6.2148, 60.1675
Hunter-Lab	18.0142, 32.6338, 1.7300

Details

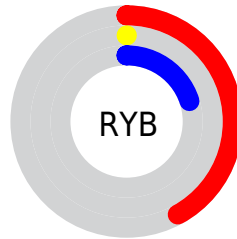
The CIELCh color **21, 44.745, 1.794** is a dark color, and the websafe version is hex **660033**. A complement of this color would be **39, 44.161, 151.841**, and the grayscale version is **15, 0.003, 296.813**.

A 20% lighter version of the original color is **41, 44.591, 2.125**, and **7, 29.115, 21.854** is the 20% darker color. If you saturate the color by 10%, you get **21, 44.360, 2.060**, and if you desaturate by 10%, it is **22, 42.411, 358.905**.

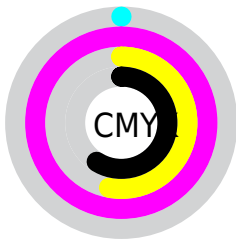
Distribution



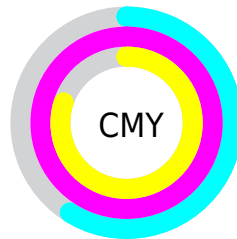
- Red (42%)
- Green (0%)
- Blue (20%)



- Red (42%)
- Yellow (0%)
- Blue (20%)



- Cyan (0%)
- Magenta (100%)
- Yellow (53%)
- Black (59%)




- Cyan (59%)
- Magenta (100%)
- Yellow (80%)

Brightness & Saturation Gradients


These gradients show how the CIELCh color 21, 44.745, 1.794 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, 44.745, 1.794 by changing the saturation by 10% instead.

 21, 44.745, 1.794  21, 44.745, 1.794

 100, 44.745, 1.794  11, 44.745, 1.794

 41, 44.745, 1.794  1, 44.745, 1.794

 51, 44.745, 1.794  0, 44.745, 1.794

 61, 44.745, 1.794

 71, 44.745, 1.794

 81, 44.745, 1.794

 91, 44.745, 1.794

 21, 44.745, 1.794  21, 44.745, 1.794

 21, 44.360, 2.060  22, 42.411,

358.905

■ 23, 40.017,
356.009

■ 25, 36.564,
353.692

■ 27, 32.236,
351.814

■ 30, 27.283,
350.261

■ 32, 21.947,
348.946

■ 35, 16.428,
347.810

■ 38, 10.871,
346.805

■ 42, 5.376, 345.890

Harmonies

Complementary

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



21, 44.745, 1.794



39, 44.161, 151.841

Rectangle

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



21, 44.745, 1.794



21, 44.745, 51.794



21, 44.745, 181.794



21, 44.745, 231.794

Sweetspot

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



21, 44.360, 2.060



46, 20.408, 347.899



15, 64.751, 312.867



21, 13.835, 348.232



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, 44.360, 2.060



29, 53.491, 3.393



20, 51.866, 36.857



21, 3.048, 345.798



24, 47.704, 2.615



53, 81.871, 5.481

Inverse Universe

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



21, 44.360, 2.060



29, 53.491, 3.393



39, 25.653, 198.878



21, 3.048, 345.798



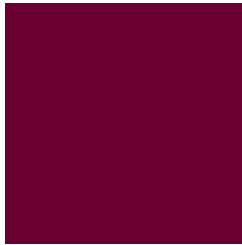
24, 47.704, 2.615



53, 81.871, 5.481

Previews

White Background



This preview shows how the CIE LCh color 21, 44.745, 1.794 looks on a white background.

Color Contrast Check

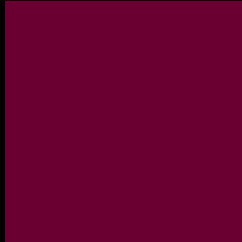
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



This preview shows how the CIE LCh color 21, 44.745, 1.794 looks on a 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, 44.745, 1.794

Background



This preview shows how black text looks on a background with the CIELCh color 21, 44.745, 1.794.



This preview shows how white text looks on a background with the CIELCh color 21, 44.745, 1.794.

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, 44.420, 2.188

Protanopia

23, 12.080, 285.193

Deuteranopia

23, 6.809, 62.832



Tritanopia
22, 43.352, 32.487

Trichromacy



Original Color
21, 44.420, 2.188

Protanomaly
19, 25.000, 332.278

Deuteranomaly
20, 22.784, 3.844

Tritanomaly
22, 42.561, 21.369

Monochromacy



Original Color
21, 44.420, 2.188

Achromatopsia
15, 0.003, 296.813

Achromatomaly
15, 21.286, 351.211

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 21, 44.745, 1.794 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(106, 0, 50)` looks like.

```
.text, #text, p{  
    color:rgb(106, 0, 50)  
}
```

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(106, 0, 50) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(106, 0, 50) }
```

Border

The CSS property to change the border of an element to CIELCh 21, 44.745, 1.794 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(106, 0, 50) }
```

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

```
.border{ border-color:rgb(106, 0, 50) }
```

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

Here you see how a box with a 4 pixel `rgb(106, 0, 50)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(106, 0, 50); -webkit-box-  
shadow:4px 4px 4px 4px rgb(106, 0, 50);  
box-shadow:4px 4px 4px 4px rgb(106, 0, 50)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 21, 44.745, 1.794 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(106, 0, 50) }
```

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

```
.background{ background-color: rgb(106, 0,  
50) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor