

Converting Colors

CIELCh(21, 38.499, 2.333)

Have a look what the booklet for
CIELCh(21, 38.499, 2.333) contains.

CIELCh(21, 38.449, 1.902)	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, 38.449, 1.902)

Conversions

Conversions Part 1

Format	Color
Hex	631032
RGB	99, 16, 50
RGB Percent	39%, 6%, 20%
CMY	0.6121, 0.9376, 0.8042
CMYK	0.00, 0.84, 0.50, 0.61
HSL	335°, 72%, 23%
HSV	335°, 84%, 39%
XYZ	5.8943, 3.2451, 3.3256
YIQ	44.6930, 38.5540, 28.1700

Conversions

Conversions Part 2

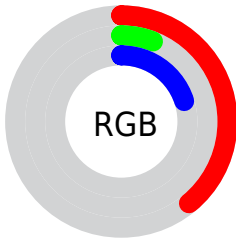
Format	Color
RYB	99, 16, 50
Decimal	6492210
CIELab	21.00, 38.43, 1.28
CIElCh	21, 38.449, 1.902
Yxy	3.2451, 0.4729, 0.2603
Android (android.graphics.Color)	4284682290 (0xFF631032)
YUV	44.6930, 2.6164, 47.6272
Hunter-Lab	18.0142, 26.8812, 1.6646

Details

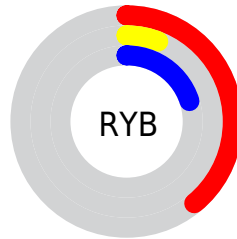
The CIELCh color **21, 38.449, 1.902** is a dark color, and the websafe version is hex **660033**. A complement of this color would be **37, 34.975, 158.611**, and the grayscale version is **18, 0.003, 296.813**.

A 20% lighter version of the original color is **41, 38.413, 2.226**, and **6, 26.978, 20.143** is the 20% darker color. If you saturate the color by 10%, you get **20, 40.722, 5.356**, and if you desaturate by 10%, it is **23, 35.358, 359.063**.

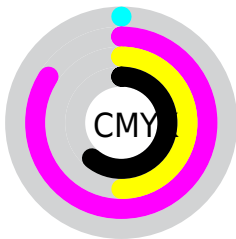
Distribution



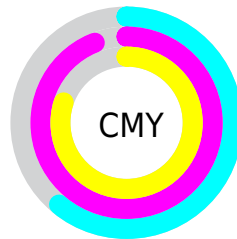
- Red (39%)
- Green (6%)
- Blue (20%)



- Red (39%)
- Yellow (6%)
- Blue (20%)



- Cyan (0%)
- Magenta (84%)
- Yellow (50%)
- Black (61%)



- Cyan (61%)
- Magenta (94%)
- Yellow (80%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 21, 38.449, 1.902 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, 38.449, 1.902 by changing the saturation by 10% instead.

 21, 38.449, 1.902  21, 38.449, 1.902

 100, 38.449, 1.902  11, 38.449, 1.902

 41, 38.449, 1.902  1, 38.449, 1.902

 51, 38.449, 1.902  0, 38.449, 1.902

 61, 38.449, 1.902

 71, 38.449, 1.902

 81, 38.449, 1.902

 91, 38.449, 1.902

 21, 38.449, 1.902  21, 38.449, 1.902

 20, 40.722, 5.356  23, 35.358,

■ 19, 42.165, 7.396

359.063

■ 24, 31.461,
356.785

■ 27, 26.961,
354.932

■ 29, 22.081,
353.396

■ 32, 17.012,
352.094

■ 35, 11.899,
350.967

■ 38, 6.841, 349.967

■ 41, 1.901, 348.991

■ 44, 2.888, 168.432

Harmonies

Complementary

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



21, 38.449, 1.902



37, 34.975, 158.611

Rectangle

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



21, 38.449, 1.902



21, 38.449, 51.902



21, 38.449, 181.902



21, 38.449, 231.902

Sweetspot

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



21, 38.447, 1.903



44, 15.350, 351.159



17, 54.206, 314.811



21, 10.404, 351.417



77, 0.009, 296.813



27, 0.004, 296.813

Same Dimension

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



21, 38.447, 1.903



26, 50.549, 8.944



21, 41.615, 36.291



18, 2.690, 349.489



22, 46.104, 8.202



51, 80.925, 11.649

Inverse Universe

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



21, 38.447, 1.903



26, 50.549, 8.944



35, 21.631, 208.437



18, 2.690, 349.489



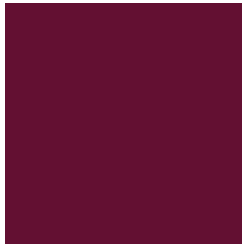
22, 46.104, 8.202



51, 80.925, 11.649

Previews

White Background



This preview shows how the CIE LCh color 21, 38.449, 1.902 looks on a white background.

Color Contrast Check

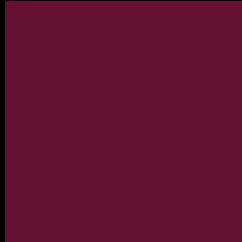
Large Text (above 18pt) WCAG AA ✓ Pass

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, 38.449, 1.902 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, 38.449, 1.902

Background



This preview shows how black text looks on a background with the CIELCh color 21, 38.449, 1.902.



This preview shows how white text looks on a background with the CIELCh color 21, 38.449, 1.902.

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, 38.449, 1.902

Protanopia

22, 11.489, 284.663

Deuteranopia

22, 5.553, 56.878



Tritanopia
21, 38.179, 29.742

Trichromacy



Original Color
21, 38.449, 1.902

Protanomaly
20, 19.654, 332.128

Deuteranomaly
20, 18.254, 5.121

Tritanomaly
21, 37.099, 19.592

Monochromacy



Original Color
21, 38.449, 1.902

Achromatopsia
18, 0.003, 296.813

Achromatomaly
18, 16.994, 352.901

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 21, 38.449, 1.902 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(99, 16, 50)` looks like.

```
.text, #text, p{  
    color:rgb(99, 16, 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(99, 16, 50) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(99, 16, 50) }
```

Border

The CSS property to change the border of an element to CIELCh 21, 38.449, 1.902 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(99, 16, 50) }
```

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

```
.border{ border-color:rgb(99, 16, 50) }
```

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

Here you see how a box with a 4 pixel rgb(99, 16, 50) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(99, 16, 50); -webkit-box-  
shadow:4px 4px 4px 4px rgb(99, 16, 50);  
box-shadow:4px 4px 4px 4px rgb(99, 16, 50)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 21, 38.449, 1.902 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(99, 16, 50) }
```

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

```
.background{ background-color: rgb(99, 16,  
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