

Converting Colors

CIE LCh(21, 2.202, 37.242)

Have a look what the booklet for
CIELCh(21, 2.202, 37.242) contains.

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Color

CIELCh(21, 2.007, 39.218)

Conversions

Conversions Part 1

Format	Color
Hex	363231
RGB	54, 50, 49
RGB Percent	21%, 20%, 19%
CMY	0.7896, 0.8053, 0.8092
CMYK	0.00, 0.07, 0.09, 0.79
HSL	12°, 5%, 20%
HSV	12°, 9%, 21%
XYZ	3.1755, 3.2451, 3.3267
YIQ	51.0820, 2.7050, 0.5370

Conversions

Conversions Part 2

Format	Color
R_{YB}	54, 50, 49
Decimal	3551793
CIE Lab	21.00, 1.55, 1.27
CIE LCh	21, 2.007, 39.218
Yxy	3.2451, 0.3258, 0.3329
Android (android.graphics.Color)	4281741873 (0xFF363231)
YUV	51.0820, -1.0264, 2.5591
Hunter-Lab	18.0142, -0.0595, 1.6608

Details

The CIELCh color **21, 2.007, 39.218** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **22, 1.912, 219.832**, and the grayscale version is **21, 0.004, 296.813**.

A 20% lighter version of the original color is **41, 2.193, 35.506**, and **1, 2.092, 42.077** is the 20% darker color. If you saturate the color by 10%, you get **19, 4.310, 39.198**, and if you desaturate by 10%, it is **23, 0.145, 221.008**.

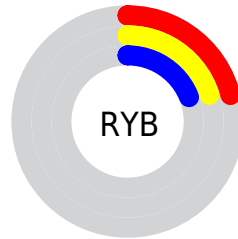
Distribution



Red (21%)

Green (20%)

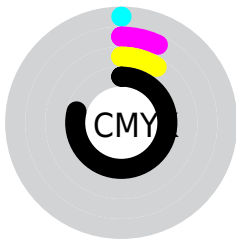
Blue (19%)



Red (21%)

Yellow (20%)

Blue (19%)



Cyan (0%)

Magenta (7%)

Yellow (9%)

Black (79%)



Cyan (79%)

Magenta (81%)

Yellow (81%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 21, 2.007, 39.218 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, 2.007, 39.218 by changing the saturation by 10% instead.

■ 21, 2.007, 39.218 ■ 21, 2.007, 39.218

100, 2.007, 39.218 ■ 11, 2.007, 39.218

■ 41, 2.007, 39.218 ■ 1, 2.007, 39.218

■ 51, 2.007, 39.218 ■ 0, 2.007, 39.218

■ 61, 2.007, 39.218

■ 71, 2.007, 39.218

■ 81, 2.007, 39.218

■ 91, 2.007, 39.218

■ 21, 2.007, 39.218 ■ 21, 2.007, 39.218

■ 19, 4.310, 39.198 ■ 23, 0.145, 221.008

18, 6.777, 39.197	24, 2.159, 219.841
16, 9.416, 39.293	26, 4.047, 220.053
15, 12.233, 39.512	27, 5.822, 220.324
14, 15.224, 39.881	29, 7.497, 220.624
12, 18.086, 39.339	31, 9.081, 220.940
11, 20.551, 37.498	32, 10.584, 221.267
10, 22.747, 35.448	34, 12.016, 221.599
9, 24.837, 34.294	35, 13.384, 221.933

Harmonies

Complementary

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



21, 2.007, 39.218



22, 1.912, 219.832

Rectangle

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



21, 2.007, 39.218



21, 2.007, 89.218



21, 2.007, 219.218



21, 2.007, 269.218

Sweetspot

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



21, 2.007, 39.243



29, 0.780, 39.123



21, 3.574, 330.981



14, 0.598, 39.158



67, 0.008, 296.813



14, 0.003, 296.813

Same Dimension

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



21, 2.007, 39.243



27, 2.945, 39.236



22, 2.441, 92.709



9, 1.236, 39.244



19, 43.021, 41.464



48, 88.874, 43.238

Inverse Universe

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



22, 1.912, 219.832



28, 2.772, 219.875



21, 2.450, 274.729



10, 1.183, 219.819



28, 20.718, 232.698



66, 39.256, 236.106

Previews

White Background



This preview shows how the CIELCh color 21, 2.007, 39.218 looks on a white background.

Color Contrast Check

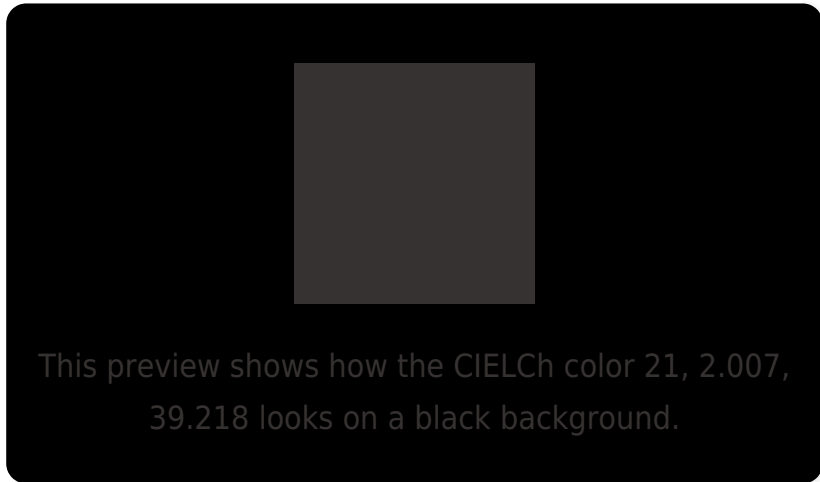
Large Text (above 18pt) WCAG AA ✓ Pass

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

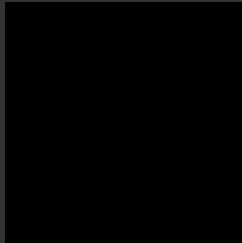
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

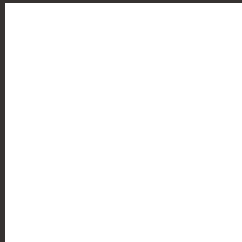
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 21, 2.007, 39.218

Background



This preview shows how black text looks on a background with the CIELCh color 21, 2.007, 39.218.

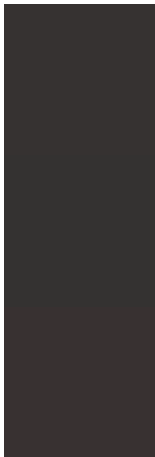


This preview shows how white text looks on a background with the CIELCh color 21, 2.007, 39.218.

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, 2.007, 39.218

Protanopia

21, 1.152, 55.150

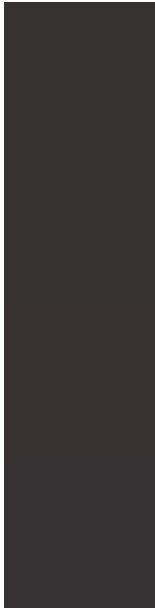
Deuteranopia

21, 3.334, 20.027



Tritanopia
21, 3.575, 330.979

Trichromacy



Original Color

21, 2.007, 39.218

Protanomaly

21, 1.564, 45.009

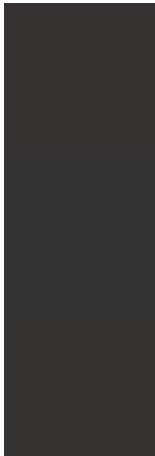
Deuteranomaly

21, 2.850, 19.917

Tritanomaly

21, 2.711, 350.055

Monochromacy



Original Color

21, 2.007, 39.218

Achromatopsia

21, 0.004, 296.813

Achromatomaly

21, 0.813, 74.854

CSS Examples

Text

The CSS property to change the color of the text to CIE LCh 21, 2.007, 39.218 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(54, 50, 49)` looks like.

```
.text, #text, p{  
    color:rgb(54, 50, 49)  
}
```

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(54, 50, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(54, 50, 49) }
```

Border

The CSS property to change the border of an element to CIELCh 21, 2.007, 39.218 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(54, 50, 49) }
```

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

```
.border{ border-color:rgb(54, 50, 49) }
```

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

Here you see how a box with a 4 pixel rgb(54, 50, 49) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(54, 50, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(54, 50, 49);  
box-shadow:4px 4px 4px 4px rgb(54, 50, 49)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 21, 2.007, 39.218 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(54, 50, 49) }
```

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

```
.background{ background-color: rgb(54, 50,  
49) }
```

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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