

Converting Colors

CIE LCh(23, 2.768, 12.228)

Have a look what the booklet for
CIELCh(23, 2.768, 12.228) contains.

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Color

CIELCh(23, 2.331, 19.759)

Conversions

Conversions Part 1

| Format | Color |
|-------------|-------------------------|
| Hex | 3B3636 |
| RGB | 59, 54, 54 |
| RGB Percent | 23%, 21%, 21% |
| CMY | 0.7696, 0.7892, 0.7892 |
| CMYK | 0.00, 0.09, 0.09, 0.77 |
| HSL | 0°, 4%, 22% |
| HSV | 0°, 9%, 23% |
| XYZ | 3.7554, 3.8003, 3.9941 |
| YIQ | 55.4950, 2.9800, 1.0600 |

Conversions

Conversions Part 2

| Format | Color |
|-------------------------------------|-----------------------------|
| R_YB | 59, 54, 54 |
| Decimal | 3880502 |
| CIE Lab | 23.00, 2.19, 0.79 |
| CIE LCh | 23, 2.331, 19.759 |
| Yxy | 3.8003, 0.3251, 0.3290 |
| Android (android.graphics.Color) | 4282070582 (0xFF3B3636) |
| YUV | 55.4950, -0.7370, 3.0739 |
| Hunter-Lab | 19.4944, 0.2706, 1.4984 |

Details

The CIELCh color **23, 2.331, 19.759** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **24, 2.226, 199.127**, and the grayscale version is **23, 0.004, 296.813**.

A 20% lighter version of the original color is **43, 2.087, 19.508**, and **3, 2.348, 19.385** is the 20% darker color. If you saturate the color by 10%, you get **21, 5.245, 20.479**, and if you desaturate by 10%, it is **25, 0.395, 199.948**.

Distribution



Red (23%)

Green (21%)

Blue (21%)



Red (23%)

Yellow (21%)

Blue (21%)



Cyan (0%)

Magenta (9%)

Yellow (9%)

Black (77%)



Cyan (77%)

Magenta (79%)

Yellow (79%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 23, 2.331, 19.759 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 23, 2.331, 19.759 by changing the saturation by 10% instead.

■ 23, 2.331, 19.759 ■ 23, 2.331, 19.759

100, 2.331, 19.759 ■ 13, 2.331, 19.759

■ 43, 2.331, 19.759 ■ 3, 2.331, 19.759

■ 53, 2.331, 19.759 ■ 0, 2.331, 19.759

■ 63, 2.331, 19.759

■ 73, 2.331, 19.759

■ 83, 2.331, 19.759

■ 93, 2.331, 19.759

■ 23, 2.331, 19.759 ■ 23, 2.331, 19.759

■ 21, 5.245, 20.479 ■ 25, 0.395, 199.948

| | |
|--------------------|------------------------|
| 19, 8.354, 21.302 | 27, 2.942, 199.015 |
| 17, 11.653, 22.324 | 29, 5.326, 198.634 |
| 15, 15.122, 23.609 | 31, 7.561, 198.336 |
| 14, 18.722, 25.225 | 33, 9.663, 198.092 |
| 12, 22.277, 26.679 | 36, 11.646, 197.889 |
| 11, 25.331, 26.774 | 38, 13.523, 197.719 |
| 10, 27.902, 26.240 | 40, 15.307, 197.575 |
| 9, 30.629, 25.248 | 42, 17.007, 197.452 |

Harmonies

Complementary

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



23, 2.331, 19.759



24, 2.226, 199.127

Rectangle

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



23, 2.331, 19.759



23, 2.331, 69.759



23, 2.331, 199.759



23, 2.331, 249.759

Sweetspot

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



23, 2.330, 19.778



32, 1.006, 19.310



23, 4.049, 324.815



15, 0.750, 19.372



68, 0.008, 296.813



15, 0.003, 296.813

Same Dimension

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



23, 2.330, 19.778



30, 3.438, 19.913



24, 2.015, 74.455



10, 1.574, 19.777



17, 47.176, 34.880



46, 94.130, 40.002

Inverse Universe

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



24, 2.226, 199.127



32, 3.249, 199.018



23, 1.983, 256.430



11, 1.503, 199.128



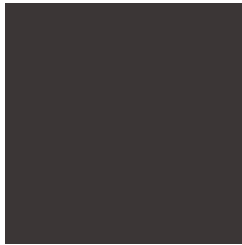
36, 24.208, 196.417



80, 45.097, 196.419

Previews

White Background



This preview shows how the CIELCh color 23, 2.331, 19.759 looks on a white background.

Color Contrast Check

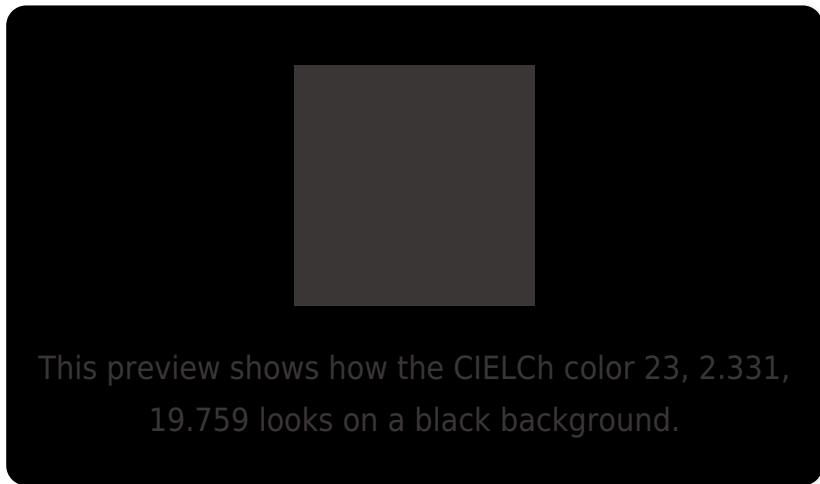
Large Text (above 18pt) WCAG AA ✓ Pass

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

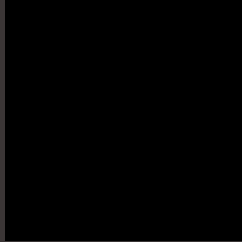
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 23, 2.331, 19.759

Background



This preview shows how black text looks on a background with the CIELCh color 23, 2.331, 19.759.

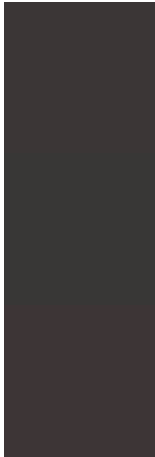


This preview shows how white text looks on a background with the CIELCh color 23, 2.331, 19.759.

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


23, 2.331, 19.759

Protanopia

23, 0.803, 74.866

Deuteranopia

23, 3.807, 10.076



Tritanopia
23, 3.848, 336.244

Trichromacy



Original Color

23, 2.331, 19.759

Protanomaly

23, 1.134, 55.164

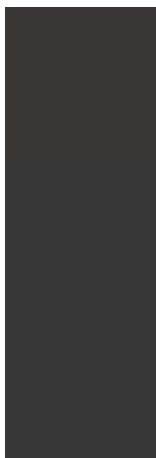
Deuteranomaly

23, 3.340, 8.540

Tritanomaly

23, 3.425, 344.330

Monochromacy



Original Color

23, 2.331, 19.759

Achromatopsia

23, 0.004, 296.813

Achromatomaly

23, 0.460, 19.007

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 23, 2.331, 19.759 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(59, 54, 54)` looks like.

```
.text, #text, p{  
    color:rgb(59, 54, 54)  
}
```

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(59, 54, 54) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(59, 54, 54) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 2.331, 19.759 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(59, 54, 54) }
```

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

```
.border{ border-color:rgb(59, 54, 54) }
```

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

Here you see how a box with a 4 pixel `rgb(59, 54, 54)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(59, 54, 54); -webkit-box-  
shadow:4px 4px 4px 4px rgb(59, 54, 54);  
box-shadow:4px 4px 4px 4px rgb(59, 54, 54)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 23, 2.331, 19.759 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(59, 54, 54) }
```

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

```
.background{ background-color: rgb(59, 54,  
54) }
```

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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