

Converting Colors

CIELCh(23, 0.399, 15.338)

Have a look what the booklet for
CIELCh(23, 0.399, 15.338) contains.

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Color

CIELCh(23, 0.460, 19.007)

Conversions

Conversions Part 1

Format	Color
Hex	383737
RGB	56, 55, 55
RGB Percent	22%, 22%, 22%
CMY	0.7818, 0.7857, 0.7857
CMYK	0.00, 0.02, 0.02, 0.78
HSL	0°, 1%, 22%
HSV	0°, 2%, 22%
XYZ	3.6402, 3.8003, 4.1103
YIQ	55.2990, 0.5960, 0.2120

Conversions

Conversions Part 2

Format	Color
R_{YB}	56, 55, 55
Decimal	3684151
CIE Lab	23.00, 0.43, 0.15
CIE LCh	23, 0.460, 19.007
Yxy	3.8003, 0.3151, 0.3290
Android (android.graphics.Color)	4281874231 (0xFF383737)
YUV	55.2990, -0.1474, 0.6148
Hunter-Lab	19.4944, -0.7838, 1.1451

Details

The CIELCh color **23, 0.460, 19.007** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **23, 0.454, 199.906**, and the grayscale version is **23, 0.004, 296.813**.

A 20% lighter version of the original color is **43, 0.414, 18.641**, and **3, 0.620, 19.321** is the 20% darker color. If you saturate the color by 10%, you get **21, 3.118, 20.065**, and if you desaturate by 10%, it is **25, 2.027, 199.254**.

Distribution



Red (22%)

Green (22%)

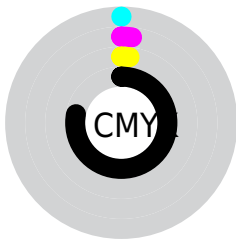
Blue (22%)



Red (22%)

Yellow (22%)

Blue (22%)



Cyan (0%)

Magenta (2%)

Yellow (2%)

Black (78%)



Cyan (78%)

Magenta (79%)

Yellow (79%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 23, 0.460, 19.007 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, 0.460, 19.007 by changing the saturation by 10% instead.

■ 23, 0.460, 19.007 ■ 23, 0.460, 19.007

100, 0.460, 19.007 ■ 13, 0.460, 19.007

■ 43, 0.460, 19.007 ■ 3, 0.460, 19.007

■ 53, 0.460, 19.007 ■ 0, 0.460, 19.007

■ 63, 0.460, 19.007

■ 73, 0.460, 19.007

■ 83, 0.460, 19.007

■ 93, 0.460, 19.007

■ 23, 0.460, 19.007 ■ 23, 0.460, 19.007

■ 21, 3.118, 20.065 ■ 25, 2.027, 199.254

19, 5.958, 20.780

27, 4.354, 198.831

17, 8.982, 21.644

29, 6.536, 198.514

15, 12.182, 22.720

31, 8.587, 198.257

14, 15.534, 24.071

33, 10.521,
198.044

12, 18.984, 25.691

35, 12.351,
197.866

11, 22.159, 26.133

10, 24.842, 25.634

37, 14.087,
197.715

8, 27.351, 24.702

39, 15.741,
197.587

41, 17.321,
197.477

Harmonies

Complementary

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



23, 0.460, 19.007



23, 0.454, 199.906

Rectangle

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



23, 0.460, 19.007



23, 0.460, 69.007



23, 0.460, 199.007



23, 0.460, 249.007

Sweetspot

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



23, 0.459, 19.099



30, 0.315, 18.710



23, 0.816, 324.397



14, 0.175, 18.565



67, 0.008, 296.813



14, 0.003, 296.813

Same Dimension

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



23, 0.459, 19.099



30, 0.631, 19.183



23, 0.399, 74.861



10, 0.285, 19.055



17, 46.041, 34.493



46, 93.304, 40.009

Inverse Universe

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



23, 0.454, 199.906



30, 0.623, 199.822



23, 0.403, 255.974



10, 0.282, 199.949



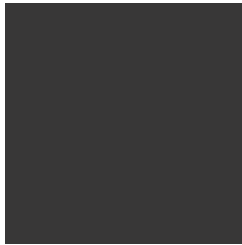
35, 23.723, 196.541



80, 44.650, 196.554

Previews

White Background



This preview shows how the CIELCh color 23, 0.460, 19.007 looks on a white background.

Color Contrast Check

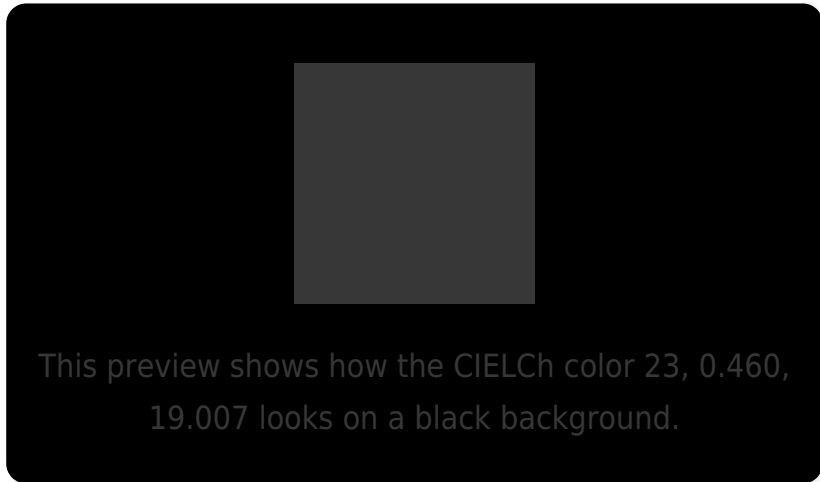
Large Text (above 18pt) WCAG AA ✓ Pass

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

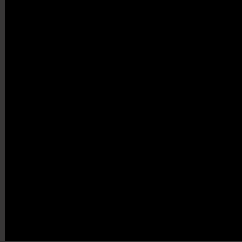
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

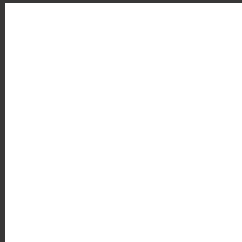
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 23, 0.460, 19.007

Background



This preview shows how black text looks on a background with the CIELCh color 23, 0.460, 19.007.

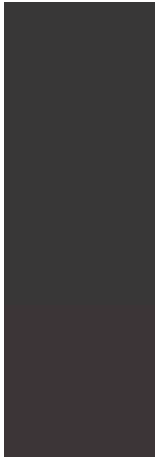


This preview shows how white text looks on a background with the CIELCh color 23, 0.460, 19.007.

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, 0.460, 19.007

Protanopia

23, 0.460, 19.007

Deuteranopia

23, 3.520, 357.865



Tritanopia
23, 2.834, 309.311

Trichromacy



Original Color

23, 0.460, 19.007

Protanomaly

23, 0.460, 19.007

Deuteranomaly

23, 1.971, 359.964

Tritanomaly

23, 2.213, 314.822

Monochromacy



Original Color

23, 0.460, 19.007

Achromatopsia

23, 0.004, 296.813

Achromatomaly

23, 0.004, 296.813

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 23, 0.460, 19.007 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(56, 55, 55)` looks like.

```
.text, #text, p{  
    color:rgb(56, 55, 55)  
}
```

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(56, 55, 55) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(56, 55, 55) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 0.460, 19.007 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(56, 55, 55) }
```

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

```
.border{ border-color:rgb(56, 55, 55) }
```

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

Here you see how a box with a 4 pixel `rgb(56, 55, 55)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(56, 55, 55); -webkit-box-  
shadow:4px 4px 4px 4px rgb(56, 55, 55);  
box-shadow:4px 4px 4px 4px rgb(56, 55, 55)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 23, 0.460, 19.007 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(56, 55, 55) }
```

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

```
.background{ background-color: rgb(56, 55,  
55) }
```

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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