

Converting Colors

CIELCh(23, 11.964, 21.336)

Have a look what the booklet for
CIELCh(23, 11.964, 21.336) contains.

CIELCh(23, 11.770, 21.837)	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(23, 11.770, 21.837)

Conversions

Conversions Part 1

Format	Color
Hex	493131
RGB	73, 49, 49
RGB Percent	29%, 19%, 19%
CMY	0.7148, 0.8088, 0.8088
CMYK	0.00, 0.33, 0.33, 0.71
HSL	360°, 20%, 24%
HSV	360°, 33%, 29%
XYZ	4.3631, 3.8003, 3.3811
YIQ	56.1760, 14.3040, 5.0880

Conversions

Conversions Part 2

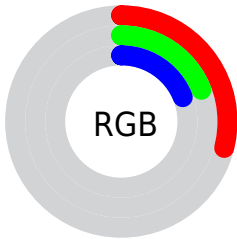
Format	Color
RYB	73, 49, 49
Decimal	4796721
CIELab	23.00, 10.93, 4.38
CIElCh	23, 11.770, 21.837
Yxy	3.8003, 0.3779, 0.3292
Android (android.graphics.Color)	4282986801 (0xFF493131)
YUV	56.1760, -3.5378, 14.7546
Hunter-Lab	19.4944, 5.8357, 3.3628

Details

The CIELCh color **23, 11.770, 21.837** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **29, 9.626, 197.946**, and the grayscale version is **23, 0.004, 296.813**.

A 20% lighter version of the original color is **43, 11.735, 20.943**, and **3, 11.964, 21.336** is the 20% darker color. If you saturate the color by 10%, you get **21, 15.837, 23.058**, and if you desaturate by 10%, it is **25, 7.925, 20.879**.

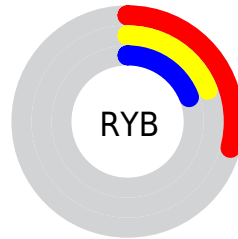
Distribution



Red (29%)

Green (19%)

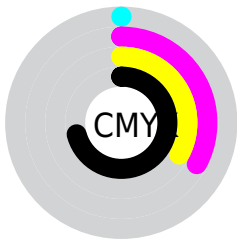
Blue (19%)



Red (29%)

Yellow (19%)

Blue (19%)

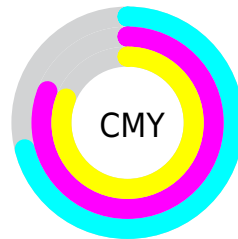


Cyan (0%)

Magenta (33%)

Yellow (33%)

Black (71%)



Cyan (71%)

Magenta (81%)

Yellow (81%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 23, 11.770, 21.837 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, 11.770, 21.837 by changing the saturation by 10% instead.

■ 23, 11.770, 21.837

■ 23, 11.770, 21.837

■ 100, 11.770,
21.837

■ 13, 11.770, 21.837

■ 43, 11.770, 21.837

■ 3, 11.770, 21.837

■ 53, 11.770, 21.837

■ 0, 11.770, 21.837

■ 63, 11.770, 21.837

■ 73, 11.770, 21.837

■ 83, 11.770, 21.837

■ 93, 11.770, 21.837

■ 23, 11.770, 21.837

■ 23, 11.770, 21.837

21, 15.837, 23.058

25, 7.925, 20.879

19, 20.089, 24.602

28, 4.320, 20.099

17, 24.456, 26.554

30, 0.956, 19.282

15, 28.806, 28.876

33, 2.181, 199.204

14, 32.458, 30.027

35, 5.107, 198.745

13, 35.369, 30.292

38, 7.841, 198.409

12, 37.481, 30.202

40, 10.404,
198.139

43, 12.814,
197.916

45, 15.088,
197.731

Harmonies

Complementary

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



23, 11.770, 21.837



29, 9.626, 197.946

Rectangle

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



23, 11.770, 21.837



23, 11.770, 71.837



23, 11.770, 201.837



23, 11.770, 251.837

Sweetspot

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



23, 11.769, 21.842



37, 4.096, 19.915



24, 18.748, 325.560



18, 2.825, 19.966



72, 0.009, 296.813



20, 0.004, 296.813

Same Dimension

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



23, 11.769, 21.842



28, 18.214, 22.865



26, 9.763, 70.008



13, 1.799, 19.785



19, 49.401, 35.621



47, 95.756, 39.999

Inverse Universe

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



23, 11.769, 21.842



28, 18.214, 22.865



25, 8.924, 258.146



13, 1.799, 19.785



19, 49.401, 35.621



47, 95.756, 39.999

Previews

White Background



This preview shows how the CIELCh color 23, 11.770, 21.837 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 CIELCh color 23, 11.770, 21.837 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

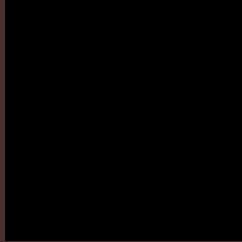
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 23, 11.770, 21.837

Background



This preview shows how black text looks on a background with the CIELCh color 23, 11.770, 21.837.

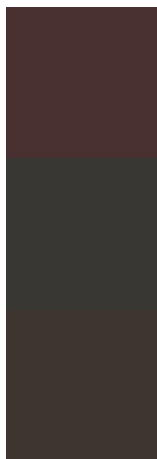


This preview shows how white text looks on a background with the CIELCh color 23, 11.770, 21.837.

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, 11.770, 21.837

Protanopia

23, 2.195, 84.420

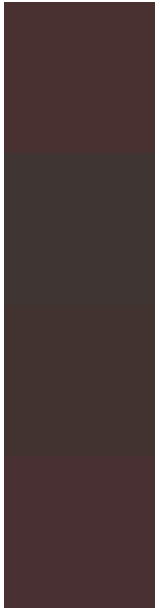
Deuteranopia

23, 5.919, 54.075



Tritanopia
23, 12.261, 9.719

Trichromacy



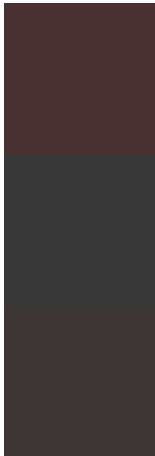
Original Color
23, 11.770, 21.837

Protanomaly
23, 4.975, 35.648

Deuteranomaly
23, 8.126, 34.939

Tritanomaly
23, 12.218, 12.786

Monochromacy



Original Color
23, 11.770, 21.837

Achromatopsia
24, 0.004, 296.813

Achromatomaly
23, 4.250, 20.185

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 23, 11.770, 21.837 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(73, 49, 49)` looks like.

```
.text, #text, p{  
    color:rgb(73, 49, 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(73, 49, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(73, 49, 49) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 11.770, 21.837 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(73, 49, 49) }
```

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

```
.border{ border-color:rgb(73, 49, 49) }
```

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

Here you see how a box with a 4 pixel `rgb(73, 49, 49)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(73, 49, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(73, 49, 49);  
box-shadow:4px 4px 4px 4px rgb(73, 49, 49)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 23, 11.770, 21.837 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(73, 49, 49) }
```

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

```
.background{ background-color: rgb(73, 49,  
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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