

Converting Colors

CIELCh(23, 11.731, 15.422)

Have a look what the booklet for
CIELCh(23, 11.731, 15.422) contains.

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Color

CIELCh(23, 11.679, 15.440)

Conversions

Conversions Part 1

Format	Color
Hex	493133
RGB	73, 49, 51
RGB Percent	29%, 19%, 20%
CMY	0.7154, 0.8093, 0.8015
CMYK	0.00, 0.33, 0.30, 0.72
HSL	355°, 20%, 24%
HSV	355°, 33%, 28%
XYZ	4.3874, 3.8003, 3.5900
YIQ	56.4040, 13.6620, 5.7100

Conversions

Conversions Part 2

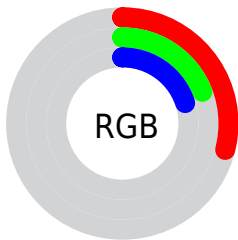
Format	Color
R_YB	73, 49, 51
Decimal	4796723
CIE Lab	23.00, 11.26, 3.11
CIE LCh	23, 11.679, 15.440
Yxy	3.8003, 0.3725, 0.3227
Android (android.graphics.Color)	4282986803 (0xFF493133)
YUV	56.4040, -2.6642, 14.5547
Hunter-Lab	19.4944, 6.0584, 2.7275

Details

The CIELCh color **23, 11.679, 15.440** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **29, 9.864, 190.336**, and the grayscale version is **24, 0.004, 296.813**.

A 20% lighter version of the original color is **43, 11.702, 15.138**, and **3, 11.724, 15.459** is the 20% darker color. If you saturate the color by 10%, you get **21, 15.611, 16.800**, and if you desaturate by 10%, it is **25, 7.913, 14.335**.

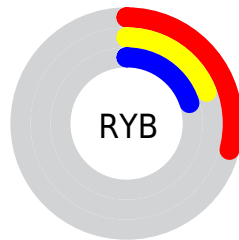
Distribution



Red (29%)

Green (19%)

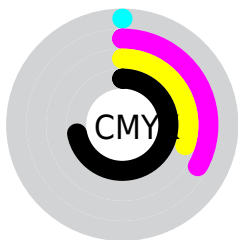
Blue (20%)



Red (29%)

Yellow (19%)

Blue (20%)

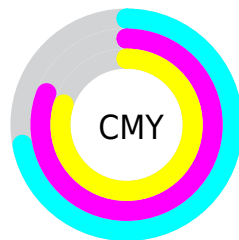


Cyan (0%)

Magenta (33%)

Yellow (30%)

Black (72%)



Cyan (72%)

Magenta (81%)

Yellow (80%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 23, 11.679, 15.440 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, 11.679, 15.440 by changing the saturation by 10% instead.

■ 23, 11.679, 15.440

■ 23, 11.679, 15.440

■ 100, 11.679,
15.440

■ 13, 11.679, 15.440

■ 43, 11.679, 15.440

■ 3, 11.679, 15.440

■ 53, 11.679, 15.440

■ 0, 11.679, 15.440

■ 63, 11.679, 15.440

■ 73, 11.679, 15.440

■ 83, 11.679, 15.440

■ 93, 11.679, 15.440

■ 23, 11.679, 15.440

■ 23, 11.679, 15.440

21, 15.611, 16.800

25, 7.913, 14.335

19, 19.661, 18.478

28, 4.344, 13.402

17, 23.750, 20.567

30, 0.978, 12.439

15, 27.775, 23.158

33, 2.188, 192.187

14, 31.472, 25.749

35, 5.165, 191.572

13, 34.475, 26.911

38, 7.966, 191.081

12, 36.509, 26.786

40, 10.608,
190.659

43, 13.107,
190.289

45, 15.476,
189.961

Harmonies

Complementary

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



23, 11.679, 15.440



29, 9.864, 190.336

Rectangle

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



23, 11.679, 15.440



23, 11.679, 65.440



23, 11.679, 195.440



23, 11.679, 245.440

Sweetspot

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



23, 11.678, 15.444



37, 4.114, 13.174



24, 18.346, 323.134



18, 2.836, 13.236



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, 11.678, 15.444



28, 17.977, 16.583



26, 9.538, 60.924



13, 1.809, 13.017



19, 47.742, 32.261



47, 92.290, 37.192

Inverse Universe

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



23, 11.678, 15.444



28, 17.977, 16.583



26, 8.348, 247.959



13, 1.809, 13.017



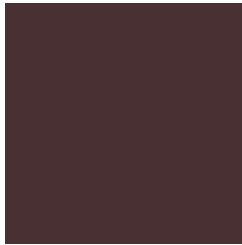
19, 47.742, 32.261



47, 92.290, 37.192

Previews

White Background



This preview shows how the CIE LCh color 23, 11.679, 15.440 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, 11.679, 15.440 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

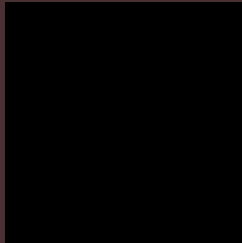
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 23, 11.679, 15.440

Background



This preview shows how black text looks on a background with the CIELCh color 23, 11.679, 15.440.

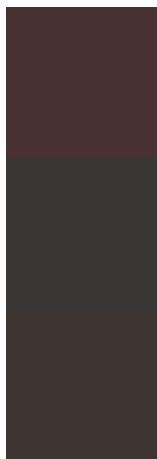


This preview shows how white text looks on a background with the CIELCh color 23, 11.679, 15.440.

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, 11.679, 15.440

Protanopia

23, 0.803, 74.866

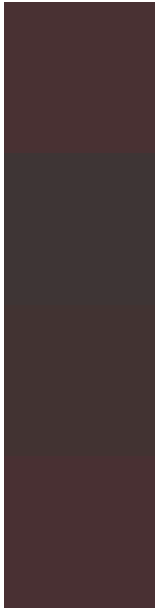
Deuteranopia

23, 4.771, 44.701



Tritanopia
23, 12.261, 9.719

Trichromacy



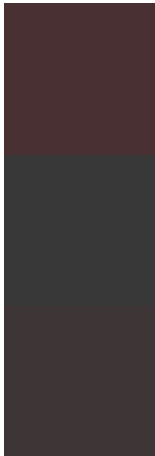
Original Color
23, 11.679, 15.440

Protanomaly
23, 4.250, 20.185

Deuteranomaly
23, 7.297, 25.997

Tritanomaly
23, 12.218, 12.786

Monochromacy



Original Color
23, 11.679, 15.440

Achromatopsia
24, 0.004, 296.813

Achromatomaly
23, 4.277, 11.302

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 23, 11.679, 15.440 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, 51)` looks like.

```
.text, #text, p{  
    color:rgb(73, 49, 51)  
}
```

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, 51) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(73, 49, 51) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 11.679, 15.440 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, 51) }
```

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

```
.border{ border-color:rgb(73, 49, 51) }
```

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, 51)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(73, 49, 51); -webkit-box-  
shadow:4px 4px 4px 4px rgb(73, 49, 51);  
box-shadow:4px 4px 4px 4px rgb(73, 49, 51)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 23, 11.679, 15.440 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, 51) }
```

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

```
.background{ background-color: rgb(73, 49,  
51) }
```

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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