

Converting Colors

CIELCh(23, 13.637, 348.307)

Have a look what the booklet for
CIELCh(23, 13.637, 348.307)
contains.

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Color

CIELCh(23, 13.175, 348.854)

Conversions

Conversions Part 1

Format	Color
Hex	48303B
RGB	72, 48, 59
RGB Percent	28%, 19%, 23%
CMY	0.7179, 0.8120, 0.7688
CMYK	0.00, 0.33, 0.18, 0.72
HSL	333°, 20%, 24%
HSV	333°, 33%, 28%
XYZ	4.5111, 3.8003, 4.6261
YIQ	56.4300, 10.7730, 8.5090

Conversions

Conversions Part 2

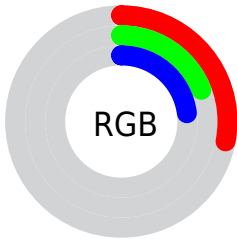
Format	Color
RYB	72, 48, 59
Decimal	4730939
CIELab	23.00, 12.93, -2.55
CIELCh	23, 13.175, 348.854
Yxy	3.8003, 0.3487, 0.2937
Android (android.graphics.Color)	4282921019 (0xFF48303B)
YUV	56.4300, 1.2670, 13.6549
Hunter-Lab	19.4944, 7.1903, -0.4237

Details

The CIELCh color **23, 13.175, 348.854** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **28, 12.594, 163.134**, and the grayscale version is **24, 0.004, 296.813**.

A 20% lighter version of the original color is **43, 13.348, 348.740**, and **3, 13.637, 348.307** is the 20% darker color. If you saturate the color by 10%, you get **21, 17.152, 349.978**, and if you desaturate by 10%, it is **25, 9.162, 347.864**.

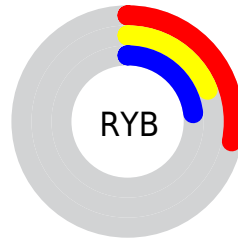
Distribution



 Red (28%)

 Green (19%)

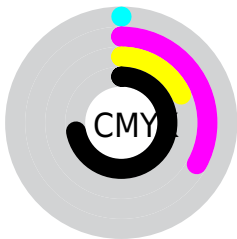
 Blue (23%)



 Red (28%)

 Yellow (19%)

 Blue (23%)

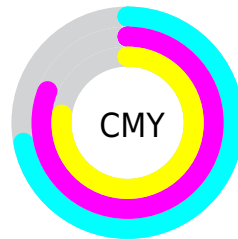


 Cyan (0%)

 Magenta (33%)

 Yellow (18%)

 Black (72%)



 Cyan (72%)


 Magenta (81%)


 Yellow (77%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 23, 13.175, 348.854 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, 13.175, 348.854 by changing the saturation by 10% instead.

 23, 13.175,
348.854


 23, 13.175,
348.854

 100, 13.175,
348.854


 13, 13.175,
348.854


 43, 13.175,
348.854


 3, 13.175, 348.854

 53, 13.175,
348.854

 0, 13.175, 348.854

 63, 13.175,
348.854

 73, 13.175,
348.854

 83, 13.175,
348.854

 93, 13.175,

348.854

■ 23, 13.175,
348.854

■ 23, 13.175,
348.854

■ 21, 17.152,
349.978

■ 25, 9.162, 347.864

■ 27, 5.185, 346.967

■ 19, 20.997,
351.272

■ 30, 1.287, 346.053

■ 17, 24.578,
352.795

■ 32, 2.506, 165.567

■ 16, 27.738,
354.625

■ 35, 6.182, 164.852

■ 37, 9.736, 164.225

■ 14, 30.314,
356.861

■ 39, 13.170,
163.649

■ 13, 32.477,
359.365

■ 42, 16.488,

■ 13, 34.097, 0.836 163.114

■ 44, 19.696,
162.616

Harmonies

Complementary

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



23, 13.175, 348.854



28, 12.594, 163.134

Rectangle

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



23, 13.175, 348.854



23, 13.175, 38.854



23, 13.175, 168.854



23, 13.175, 218.854

Sweetspot

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



23, 13.174, 348.856



37, 4.845, 346.713



22, 17.026, 311.616



18, 3.336, 346.775



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, 13.174, 348.856



29, 19.818, 349.772



23, 11.454, 24.368



13, 2.138, 346.556



20, 42.418, 3.025



49, 77.304, 6.699

Inverse Universe

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



23, 13.174, 348.856



29, 19.818, 349.772



28, 9.313, 201.195



13, 2.138, 346.556



20, 42.418, 3.025



49, 77.304, 6.699

Previews

White Background



This preview shows how the CIELCh color 23, 13.175, 348.854 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, 13.175, 348.854 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

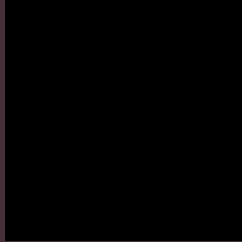
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 23, 13.175, 348.854

Background



This preview shows how black text looks on a background with the CIELCh color 23, 13.175, 348.854.



This preview shows how white text looks on a background with the CIELCh color 23, 13.175, 348.854.

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, 13.175, 348.854

Protanopia

23, 5.343, 286.693

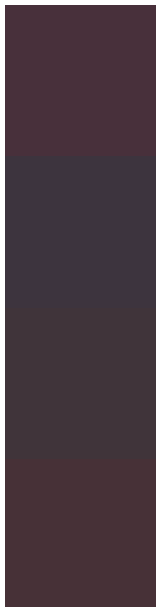
Deuteranopia

23, 3.523, 330.943



Tritanopia
23, 10.801, 7.623

Trichromacy



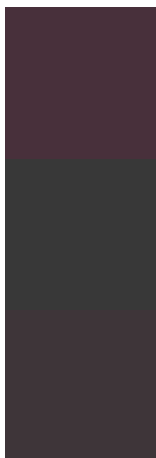
Original Color
23, 13.175, 348.854

Protanomaly
23, 7.824, 322.382

Deuteranomaly
23, 6.818, 345.043

Tritanomaly
23, 11.072, 0.887

Monochromacy



Original Color
23, 13.175, 348.854

Achromatopsia
24, 0.004, 296.813

Achromatomaly
23, 4.940, 347.848

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 23, 13.175, 348.854 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(72, 48, 59)` looks like.

```
.text, #text, p{  
    color:rgb(72, 48, 59)  
}
```

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(72, 48, 59) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(72, 48, 59) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 13.175, 348.854 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(72, 48, 59) }
```

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

```
.border{ border-color:rgb(72, 48, 59) }
```

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

Here you see how a box with a 4 pixel `rgb(72, 48, 59)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(72, 48, 59); -webkit-box-  
shadow:4px 4px 4px 4px rgb(72, 48, 59);  
box-shadow:4px 4px 4px 4px rgb(72, 48, 59)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 23, 13.175, 348.854 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(72, 48, 59) }
```

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

```
.background{ background-color: rgb(72, 48,  
59) }
```

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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