

Converting Colors

CIELCh(23, 19.014, 68.666)

Have a look what the booklet for
CIELCh(23, 19.014, 68.666) contains.

CIELCh(23, 18.614, 67.582)	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, 18.614, 67.582)

Conversions

Conversions Part 1

Format	Color
Hex	48321D
RGB	72, 50, 29
RGB Percent	28%, 20%, 11%
CMY	0.7159, 0.8024, 0.8848
CMYK	0.00, 0.30, 0.59, 0.72
HSL	29°, 42%, 20%
HSV	29°, 59%, 28%
XYZ	4.0893, 3.8003, 1.7048
YIQ	54.1840, 19.8530, -1.8670

Conversions

Conversions Part 2

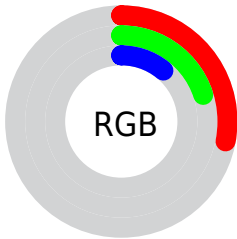
Format	Color
RYB	72, 70, 29
Decimal	4731421
CIELab	23.00, 7.10, 17.21
CIElCh	23, 18.614, 67.582
Yxy	3.8003, 0.4262, 0.3961
Android (android.graphics.Color)	4282921501 (0xFF48321D)
YUV	54.1840, -12.4157, 15.6246
Hunter-Lab	19.4944, 3.3281, 8.4612

Details

The CIELCh color **23, 18.614, 67.582** is a dark color, and the websafe version is hex **663333**. A complement of this color would be **21, 15.748, 264.480**, and the grayscale version is **23, 0.004, 296.813**.

A 20% lighter version of the original color is **43, 18.569, 67.463**, and **3, 8.460, 30.393** is the 20% darker color. If you saturate the color by 10%, you get **22, 22.142, 66.444**, and if you desaturate by 10%, it is **24, 15.166, 68.702**.

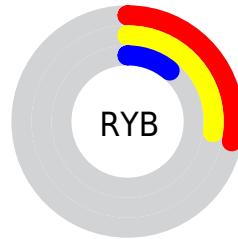
Distribution



Red (28%)

Green (20%)

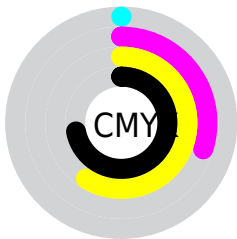
Blue (11%)



Red (28%)

Yellow (27%)

Blue (11%)

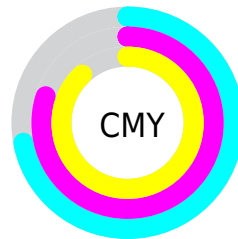


Cyan (0%)

Magenta (30%)

Yellow (59%)

Black (72%)



Cyan (72%)

Magenta (80%)

Yellow (88%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 23, 18.614, 67.582 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, 18.614, 67.582 by changing the saturation by 10% instead.

■ 23, 18.614, 67.582

■ 23, 18.614, 67.582

■ 100, 18.614,
67.582

■ 13, 18.614, 67.582

■ 43, 18.614, 67.582

■ 3, 18.614, 67.582

■ 53, 18.614, 67.582

■ 0, 18.614, 67.582

■ 63, 18.614, 67.582

■ 73, 18.614, 67.582

■ 83, 18.614, 67.582

■ 93, 18.614, 67.582

■ 23, 18.614, 67.582

■ 23, 18.614, 67.582

■ 22, 22.142, 66.444

■ 24, 15.166, 68.702

■ 21, 25.618, 65.180

■ 26, 11.837, 69.808

■ 20, 28.307, 63.149

■ 27, 8.642, 70.907

■ 19, 30.779, 61.224

■ 28, 5.583, 71.995

■ 18, 30.916, 61.129

■ 29, 2.653, 73.047

■ 31, 0.155, 255.364

■ 32, 2.853, 255.301

■ 34, 5.451, 256.293

■ 35, 7.959, 257.275

Harmonies

Complementary

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



23, 18.614, 67.582



21, 15.748, 264.480

Rectangle

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



23, 18.614, 67.582



23, 18.614, 117.582



23, 18.614, 247.582



23, 18.614, 297.582

Sweetspot

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



23, 18.614, 67.587



37, 6.422, 72.075



18, 24.025, 348.468



18, 4.516, 71.896



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, 18.614, 67.587



29, 28.365, 65.931



30, 25.967, 104.409



13, 1.543, 73.135



26, 41.712, 61.511



60, 78.680, 59.084

Inverse Universe

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



21, 15.748, 264.480



25, 23.101, 268.705



14, 30.074, 297.543



13, 1.515, 255.173



21, 33.406, 279.889



50, 65.427, 283.540

Previews

White Background



This preview shows how the CIELCh color 23, 18.614, 67.582 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 CIE LCh color 23, 18.614, 67.582 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, 18.614, 67.582

Background



This preview shows how black text looks on a background with the CIELCh color 23, 18.614, 67.582.



This preview shows how white text looks on a background with the CIELCh color 23, 18.614, 67.582.

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, 18.614, 67.582

Protanopia

23, 16.051, 95.353

Deuteranopia

23, 17.862, 79.981



Tritanopia
23, 12.705, 13.266

Trichromacy



Original Color
23, 18.614, 67.582

Protanomaly
23, 16.540, 84.096

Deuteranomaly
23, 18.210, 74.792

Tritanomaly
23, 12.929, 39.346

Monochromacy



Original Color
23, 18.614, 67.582

Achromatopsia
23, 0.004, 296.813

Achromatomaly
23, 6.112, 69.190

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 23, 18.614, 67.582 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, 50, 29)` looks like.

```
.text, #text, p{  
    color:rgb(72, 50, 29)  
}
```

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, 50, 29) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(72, 50, 29) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 18.614, 67.582 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, 50, 29) }
```

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

```
.border{ border-color:rgb(72, 50, 29) }
```

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

Here you see how a box with a 4 pixel rgb(72, 50, 29) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(72, 50, 29); -webkit-box-  
shadow:4px 4px 4px 4px rgb(72, 50, 29);  
box-shadow:4px 4px 4px 4px rgb(72, 50, 29)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 23, 18.614, 67.582 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(72, 50, 29) }
```

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

```
.background{ background-color: rgb(72, 50,  
29) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor