

Converting Colors

CIELCh(23, 46.062, 45.980)

Have a look what the booklet for
CIELCh(23, 46.062, 45.980) contains.

CIELCh(23, 45.793, 45.733)	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, 45.793, 45.733)

Conversions

Conversions Part 1

Format	Color
Hex	671D02
RGB	103, 29, 2
RGB Percent	40%, 11%, 1%
CMY	0.5948, 0.8851, 0.9908
CMYK	0.00, 0.72, 0.98, 0.59
HSL	16°, 96%, 21%
HSV	16°, 98%, 41%
XYZ	6.0891, 3.8003, 0.4798
YIQ	48.0480, 52.7710, 7.2910

Conversions

Conversions Part 2

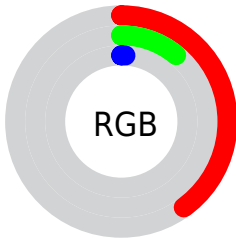
Format	Color
RYB	103, 39, 2
Decimal	6757634
CIELab	23.00, 31.96, 32.79
CIELCh	23, 45.793, 45.733
Yxy	3.8003, 0.5872, 0.3665
Android (android.graphics.Color)	4284947714 (0xFF671D02)
YUV	48.0480, -22.7017, 48.1929
Hunter-Lab	19.4944, 21.6398, 12.1868

Details

The CIELCh color **23, 45.793, 45.733** is a dark color, and the websafe version is hex **660000**. A complement of this color would be **30, 23.345, 246.035**, and the grayscale version is **20, 0.004, 296.813**.

A 20% lighter version of the original color is **43, 45.769, 46.240**, and **6, 25.890, 21.103** is the 20% darker color. If you saturate the color by 10%, you get **23, 46.746, 45.662**, and if you desaturate by 10%, it is **24, 41.384, 46.394**.

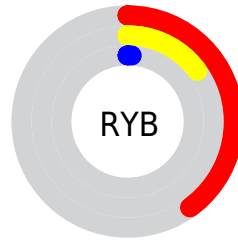
Distribution



Red (40%)

Green (11%)

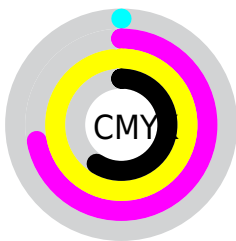
Blue (1%)



Red (40%)

Yellow (15%)

Blue (1%)

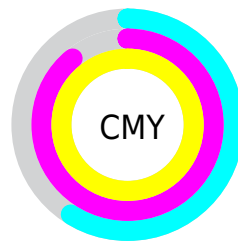


Cyan (0%)

Magenta (72%)

Yellow (98%)

Black (59%)



Cyan (59%)

Magenta (89%)

Yellow (99%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 23, 45.793, 45.733 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, 45.793, 45.733 by changing the saturation by 10% instead.

 23, 45.793, 45.733

 23, 45.793, 45.733

 100, 45.793,
45.733

 13, 45.793, 45.733

 43, 45.793, 45.733

 3, 45.793, 45.733

 53, 45.793, 45.733

 0, 45.793, 45.733

 63, 45.793, 45.733

 73, 45.793, 45.733

 83, 45.793, 45.733

 93, 45.793, 45.733

 23, 45.793, 45.733

 23, 45.793, 45.733

■ 23, 46.746, 45.662

■ 24, 41.384, 46.394

■ 26, 35.982, 46.277

■ 28, 30.450, 46.052

■ 30, 25.084, 45.918

■ 32, 19.993, 45.918

■ 35, 15.219, 46.051

■ 37, 10.770, 46.299

■ 39, 6.633, 46.633

■ 42, 2.788, 46.995

Harmonies

Complementary

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



23, 45.793, 45.733



30, 23.345, 246.035

Rectangle

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



23, 45.793, 45.733



23, 45.793, 95.733



23, 45.793, 225.733



23, 45.793, 275.733

Sweetspot

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



23, 45.792, 45.736



47, 14.153, 46.239



22, 48.648, 341.264



23, 9.906, 46.155



79, 0.010, 296.813



29, 0.005, 296.813

Same Dimension

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



23, 45.792, 45.736



30, 59.096, 46.425



35, 42.909, 86.310



20, 2.011, 46.957



26, 51.373, 46.097



55, 93.106, 45.424

Inverse Universe

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



30, 23.345, 246.035



39, 28.885, 248.334



14, 53.713, 299.052



20, 1.918, 228.077



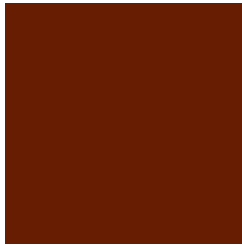
33, 25.548, 247.460



68, 45.178, 250.606

Previews

White Background



This preview shows how the CIE LCh color 23, 45.793, 45.733 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, 45.793, 45.733 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

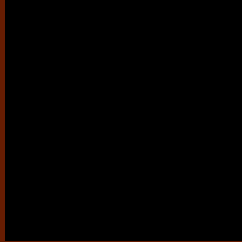
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 23, 45.793, 45.733

Background



This preview shows how black text looks on a background with the CIELCh color 23, 45.793, 45.733.



This preview shows how white text looks on a background with the CIELCh color 23, 45.793, 45.733.

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, 45.793, 45.733

Protanopia

24, 27.830, 96.210

Deuteranopia

24, 32.721, 86.436



Tritanopia
23, 39.295, 29.487

Trichromacy



Original Color
23, 45.793, 45.733

Protanomaly
23, 30.541, 69.617

Deuteranomaly
23, 34.890, 66.072

Tritanomaly
23, 41.741, 37.029

Monochromacy



Original Color
23, 45.793, 45.733

Achromatopsia
20, 0.004, 296.813

Achromatomaly
20, 16.301, 46.223

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 23, 45.793, 45.733 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(103, 29, 2)` looks like.

```
.text, #text, p{  
    color:rgb(103, 29, 2)  
}
```

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(103, 29, 2) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(103, 29, 2) }
```

Border

The CSS property to change the border of an element to CIELCh 23, 45.793, 45.733 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(103, 29, 2) }
```

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

```
.border{ border-color:rgb(103, 29, 2) }
```

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

Here you see how a box with a 4 pixel `rgb(103, 29, 2)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(103, 29, 2); -webkit-box-  
shadow:4px 4px 4px 4px rgb(103, 29, 2);  
box-shadow:4px 4px 4px 4px rgb(103, 29, 2)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 23, 45.793, 45.733 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(103, 29, 2) }
```

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

```
.background{ background-color: rgb(103, 29,  
2) }
```

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