

Converting Colors

CIELCh(12, 30.899, 23.409)

Have a look what the booklet for
CIELCh(12, 30.899, 23.409) contains.

CIELCh(12, 31.203, 23.296)	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(12, 31.203, 23.296)

Conversions

Conversions Part 1

Format	Color
Hex	44070F
RGB	68, 7, 15
RGB Percent	27%, 3%, 6%
CMY	0.7339, 0.9731, 0.9418
CMYK	0.00, 0.90, 0.78, 0.73
HSL	352°, 82%, 15%
HSV	352°, 90%, 27%
XYZ	2.5330, 1.4064, 0.5837
YIQ	26.1510, 33.7880, 15.4200

Conversions

Conversions Part 2

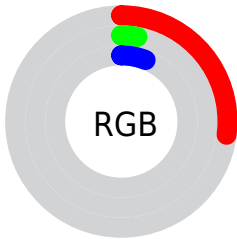
Format	Color
RYB	68, 7, 15
Decimal	4458255
CIELab	12.00, 28.66, 12.34
CIElCh	12, 31.203, 23.296
Yxy	1.4064, 0.5600, 0.3109
Android (android.graphics.Color)	4282648335 (0xFF44070F)
YUV	26.1510, -5.4974, 36.7016
Hunter-Lab	11.8591, 17.3727, 5.3829

Details

The CIELCh color **12, 31.203, 23.296** is a dark color, and the websafe version is hex **330000**. A complement of this color would be **25, 20.415, 181.128**, and the grayscale version is **9, 0.003, 296.813**.

A 20% lighter version of the original color is **32, 31.598, 23.429**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **11, 34.067, 23.316**, and if you desaturate by 10%, it is **13, 28.224, 21.381**.

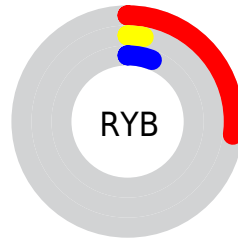
Distribution



Red (27%)

Green (3%)

Blue (6%)



Red (27%)

Yellow (3%)

Blue (6%)

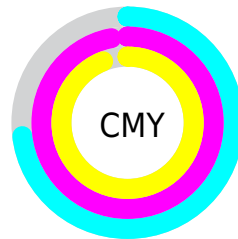


Cyan (0%)

Magenta (90%)

Yellow (78%)

Black (73%)



Cyan (73%)

Magenta (97%)

Yellow (94%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 12, 31.203, 23.296 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 12, 31.203, 23.296 by changing the saturation by 10% instead.

 12, 31.203, 23.296

 12, 31.203, 23.296

 100, 31.203,
23.296

 2, 31.203, 23.296

 32, 31.203, 23.296

 0, 31.203, 23.296

 42, 31.203, 23.296

 52, 31.203, 23.296

 62, 31.203, 23.296

 72, 31.203, 23.296

 82, 31.203, 23.296

 92, 31.203, 23.296

■ 12, 31.203, 23.296

■ 12, 31.203, 23.296

■ 11, 34.067, 23.316

■ 13, 28.224, 21.381

■ 11, 34.097, 23.310

■ 14, 24.726, 18.549

■ 16, 21.038, 16.162

■ 18, 17.284, 14.230

■ 20, 13.558, 12.660

■ 22, 9.928, 11.368

■ 24, 6.441, 10.287

■ 27, 3.118, 9.348

■ 29, 0.031, 196.686

Harmonies

Complementary

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



12, 31.203, 23.296



25, 20.415, 181.128

Rectangle

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



12, 31.203, 23.296



12, 31.203, 73.296



12, 31.203, 203.296



12, 31.203, 253.296

Sweetspot

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



12, 31.202, 23.298



30, 11.211, 11.167



13, 41.718, 323.535



14, 7.646, 11.331



71, 0.009, 296.813



19, 0.004, 296.813

Same Dimension

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



12, 31.202, 23.298



16, 42.823, 28.610



16, 27.179, 51.600



12, 1.712, 9.218



18, 45.840, 29.800



47, 88.942, 34.774

Inverse Universe

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



12, 31.202, 23.298



16, 42.823, 28.610



17, 18.148, 257.894



12, 1.712, 9.218



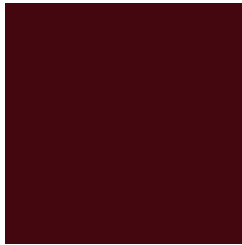
18, 45.840, 29.800



47, 88.942, 34.774

Previews

White Background



This preview shows how the CIELCh color 12, 31.203, 23.296 looks on a white background.

Color Contrast Check

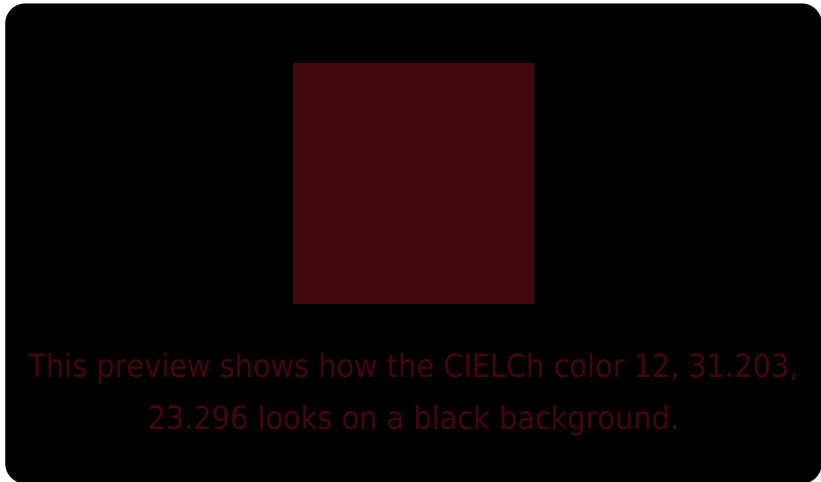
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

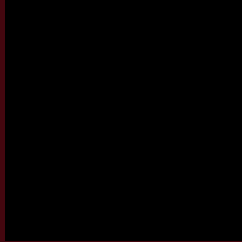
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 12, 31.203, 23.296

Background



This preview shows how black text looks on a background with the CIELCh color 12, 31.203, 23.296.

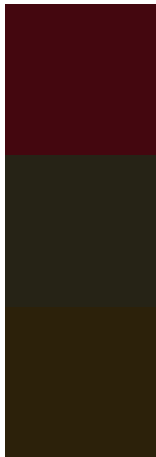


This preview shows how white text looks on a background with the CIELCh color 12, 31.203, 23.296.

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

12, 31.203, 23.296

Protanopia

14, 9.330, 97.345

Deuteranopia

14, 15.987, 82.928



Tritanopia
12, 31.838, 30.413

Trichromacy



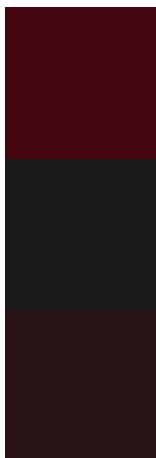
Original Color
12, 31.203, 23.296

Protanomaly
12, 14.496, 39.413

Deuteranomaly
12, 19.107, 43.413

Tritanomaly
12, 31.648, 27.800

Monochromacy



Original Color
12, 31.203, 23.296

Achromatopsia
9, 0.003, 296.813

Achromatomaly
9, 12.116, 13.369

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 12, 31.203, 23.296 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(68, 7, 15)` looks like.

```
.text, #text, p{  
    color:rgb(68, 7, 15)  
}
```

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(68, 7, 15) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(68, 7, 15) }
```

Border

The CSS property to change the border of an element to CIELCh 12, 31.203, 23.296 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(68, 7, 15) }
```

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

```
.border{ border-color:rgb(68, 7, 15) }
```

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

Here you see how a box with a 4 pixel rgb(68, 7, 15) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(68, 7, 15); -webkit-box-shadow:4px  
4px 4px 4px rgb(68, 7, 15); box-shadow:4px  
4px 4px 4px rgb(68, 7, 15) }
```

Background

The CSS property to change the background color of an element to CIELCh 12, 31.203, 23.296 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(68, 7, 15) }
```

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

```
.background{ background-color: rgb(68, 7,  
15) }
```

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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