

Converting Colors

CIELCh(16, 53.881, 91.530)

Have a look what the booklet for
CIELCh(16, 53.881, 91.530) contains.

CIELCh(16, 23.321, 90.433)	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(16, 23.321, 90.433)

Conversions

Conversions Part 1

Format	Color
Hex	312700
RGB	49, 39, 0
RGB Percent	19%, 15%, 0%
CMY	0.8080, 0.8472, 1.0000
CMYK	0.00, 0.20, 1.00, 0.81
HSL	48°, 100%, 10%
HSV	48°, 100%, 19%
XYZ	1.9877, 2.0993, 0.2982
YIQ	37.5440, 18.4790, -10.0090

Conversions

Conversions Part 2

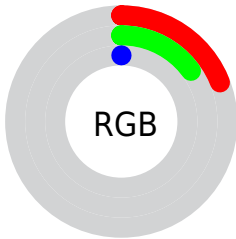
Format	Color
R_YB	13, 49, 0
Decimal	3221248
CIE Lab	16.00, -0.18, 23.32
CIE LCh	16, 23.321, 90.433
Yxy	2.0993, 0.4533, 0.4787
Android (android.graphics.Color)	4281411328 (0xFF312700)
YUV	37.5440, -18.5092, 10.0469
Hunter-Lab	14.4890, -0.8680, 8.9219

Details

The CIELCh color **16, 23.321, 90.433** is a dark color, and the websafe version is hex **333300**. A complement of this color would be **4, 27.551, 291.380**, and the grayscale version is **15, 0.003, 296.813**.

A 20% lighter version of the original color is **36, 23.491, 90.508**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **16, 23.291, 90.422**, and if you desaturate by 10%, it is **16, 21.785, 91.231**.

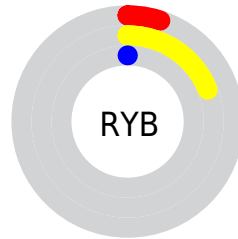
Distribution



Red (19%)

Green (15%)

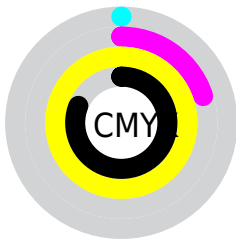
Blue (0%)



Red (5%)

Yellow (19%)

Blue (0%)

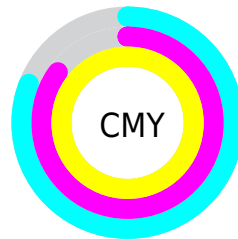


Cyan (0%)

Magenta (20%)

Yellow (100%)

Black (81%)



Cyan (81%)

Magenta (85%)

Yellow (100%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 16, 23.321, 90.433 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 16, 23.321, 90.433 by changing the saturation by 10% instead.

 16, 23.321, 90.433

 16, 23.321, 90.433

 100, 23.321,
90.433

 6, 23.321, 90.433

 36, 23.321, 90.433

 0, 23.321, 90.433

 46, 23.321, 90.433

 56, 23.321, 90.433

 66, 23.321, 90.433

 76, 23.321, 90.433

 86, 23.321, 90.433

 96, 23.321, 90.433

■ 16, 23.321, 90.433

■ 16, 23.321, 90.433

■ 16, 23.291, 90.422

■ 16, 21.785, 91.231

■ 17, 20.279, 92.175

■ 17, 18.517, 93.179

■ 18, 16.162, 94.190

■ 18, 13.515, 95.222

■ 18, 10.819, 96.243

■ 19, 8.104, 97.248

■ 19, 5.388, 98.231

■ 20, 2.683, 99.185

Harmonies

Complementary

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



16, 23.321, 90.433



4, 27.551, 291.380

Rectangle

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



16, 23.321, 90.433



16, 23.321, 140.433



16, 23.321, 270.433



16, 23.321, 320.433

Sweetspot

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



16, 23.291, 90.422



25, 10.121, 97.085



6, 25.563, 11.935



12, 6.968, 97.007



66, 0.008, 296.813



13, 0.003, 296.813

Same Dimension

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



16, 23.291, 90.422



22, 30.377, 89.555



18, 29.231, 118.868



9, 1.532, 99.350



31, 39.909, 88.742



72, 75.373, 87.313

Inverse Universe

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



4, 27.551, 291.380



6, 37.493, 297.482



3, 32.676, 302.987



8, 1.548, 280.985



10, 50.605, 300.185



31, 103.981, 302.572

Previews

White Background



This preview shows how the CIELCh color 16, 23.321, 90.433 looks on a white background.

Color Contrast Check

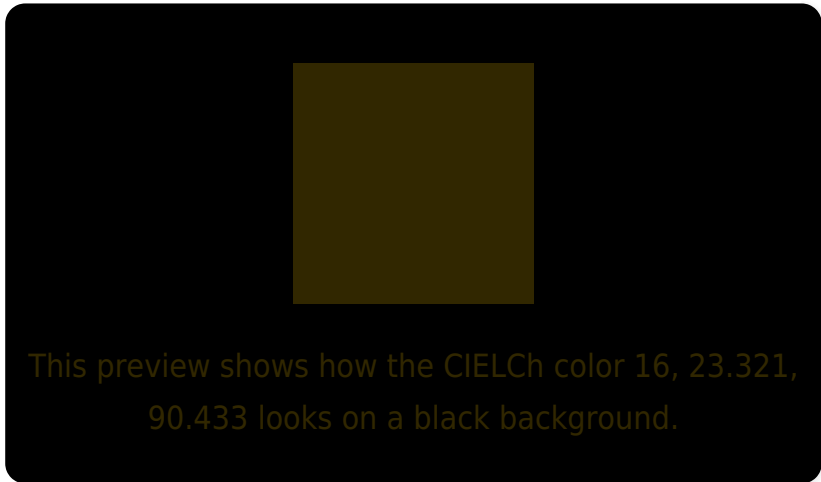
Large Text (above 18pt) WCAG AA ✓ Pass

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

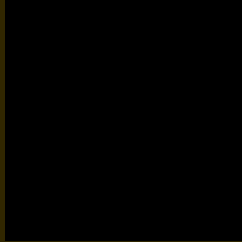
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 16, 23.321, 90.433

Background



This preview shows how black text looks on a background with the CIELCh color 16, 23.321, 90.433.



This preview shows how white text looks on a background with the CIELCh color 16, 23.321, 90.433.

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

16, 23.321, 90.433

Protanopia

16, 22.444, 97.576

Deuteranopia

16, 22.185, 85.174



Tritanopia
16, 7.747, 5.844

Trichromacy



Original Color
16, 23.321, 90.433

Protanomaly
16, 22.947, 96.195

Deuteranomaly
16, 22.340, 86.851

Tritanomaly
16, 11.143, 68.177

Monochromacy



Original Color
16, 23.321, 90.433

Achromatopsia
15, 0.003, 296.813

Achromatomaly
15, 10.014, 94.933

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 16, 23.321, 90.433 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(49, 39, 0)` looks like.

```
.text, #text, p{  
    color:rgb(49, 39, 0)  
}
```

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(49, 39, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 39, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 16, 23.321, 90.433 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(49, 39, 0) }
```

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

```
.border{ border-color:rgb(49, 39, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 39, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 39, 0); -webkit-box-shadow:4px  
4px 4px 4px rgb(49, 39, 0); box-shadow:4px  
4px 4px 4px rgb(49, 39, 0) }
```

Background

The CSS property to change the background color of an element to CIELCh 16, 23.321, 90.433 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 39, 0) }
```

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

```
.background{ background-color: rgb(49, 39,  
0) }
```

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