

# Converting Colors

CIELCh(16, 11.831, 359.903)

Have a look what the booklet for  
CIELCh(16, 11.831, 359.903)  
contains.

<b>CIELCh(16, 12.290, 359.703)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	21
<i><b>Color Blindness Simulation</b></i> .....	24
<i><b>CSS Examples</b></i> .....	27

# Color

**CIELCh(16, 12.290, 359.703)**

# Conversions

## Conversions Part 1

Format	Color
Hex	382128
RGB	56, 33, 40
RGB Percent	22%, 13%, 16%
CMY	0.7796, 0.8698, 0.8424
CMYK	0.00, 0.41, 0.28, 0.78
HSL	342°, 26%, 18%
HSV	342°, 41%, 22%
XYZ	2.5776, 2.0993, 2.2937
YIQ	40.6750, 11.4610, 7.0530

# Conversions

## Conversions Part 2

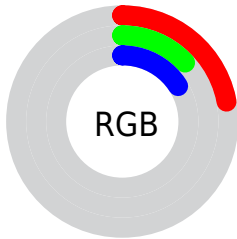
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	56, 33, 40
Decimal	3678504
CIE <sub>Lab</sub>	16.00, 12.29, -0.06
CIE <sub>LCh</sub>	16, 12.290, 359.703
Yxy	2.0993, 0.3698, 0.3012
Android (android.graphics.Color)	4281868584 (0xFF382128)
YUV	40.6750, -0.3328, 13.4400
Hunter-Lab	14.4890, 6.3998, 0.7562

# Details

The CIELCh color **16, 12.290, 359.703** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **22, 11.090, 172.150**, and the grayscale version is **17, 0.003, 296.813**.

A 20% lighter version of the original color is **36, 12.151, 0.597**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **14, 15.385, 1.120**, and if you desaturate by 10%, it is **18, 9.187, 358.497**.

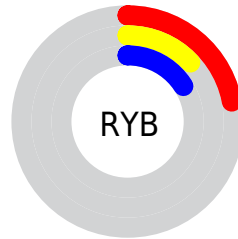
# Distribution



Red (22%)

Green (13%)

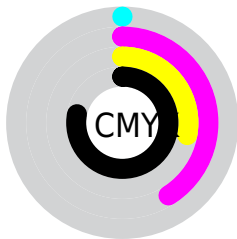
Blue (16%)



Red (22%)

Yellow (13%)

Blue (16%)

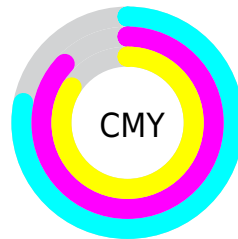


Cyan (0%)

Magenta (41%)

Yellow (28%)

Black (78%)



Cyan (78%)

Magenta (87%)


Yellow (84%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 16, 12.290, 359.703 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, 12.290, 359.703 by changing the saturation by 10% instead.




 16, 12.290,  
359.703


 16, 12.290,  
359.703


 100, 12.290,  
359.703


 6, 12.290, 359.703


 36, 12.290,  
359.703

 0, 12.290, 359.703

 46, 12.290,  
359.703


 56, 12.290,  
359.703


 66, 12.290,  
359.703


 76, 12.290,  
359.703

 86, 12.290,

359.703

 96, 12.290,  
359.703

 16, 12.290,  
359.703

 16, 12.290,  
359.703

 14, 15.385, 1.120

 18, 9.187, 358.497

 13, 18.400, 2.804

 20, 6.129, 357.444

 11, 21.242, 4.838

 22, 3.151, 356.499

 10, 23.806, 7.322

 23, 0.270, 355.025

 9, 26.285, 9.504

 25, 2.505, 175.098

 8, 28.812, 10.085

 27, 5.170, 174.397

 29, 7.729, 173.782

■ 31, 10.187,  
173.223

■ 33, 12.550,  
172.709

# Harmonies

# Complementary

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



16, 12.290, 359.703



22, 11.090, 172.150

# Rectangle

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



16, 12.290, 359.703



16, 12.290, 49.703



16, 12.290, 179.703



16, 12.290, 229.703

# Sweetspot

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



16, 12.289, 359.705



29, 4.356, 356.652



16, 17.525, 316.702



13, 2.918, 356.670



68, 0.008, 296.813



15, 0.003, 296.813





# Same Dimension

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



16, 12.289, 359.705



20, 18.613, 1.200



17, 10.381, 37.700



9, 1.584, 356.258



17, 40.718, 16.423



46, 78.387, 21.443



# Inverse Universe

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



16, 12.289, 359.705



20, 18.613, 1.200



20, 8.085, 219.015



9, 1.584, 356.258



17, 40.718, 16.423

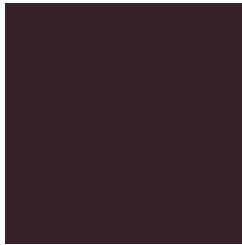


46, 78.387, 21.443



# Previews

## White Background



This preview shows how the CIE LCh color 16, 12.290, 359.703 looks on a white background.

## Color Contrast Check

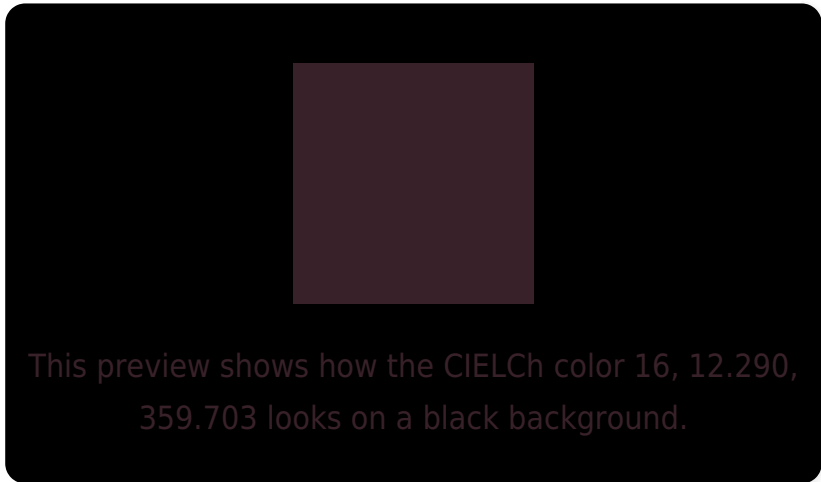
Large Text (above 18pt) WCAG AA ✓ Pass

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

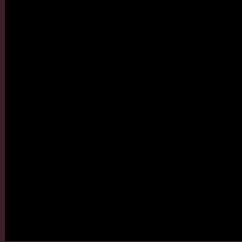
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 16, 12.290, 359.703

## Background



This preview shows how black text looks on a background with the CIELCh color 16, 12.290, 359.703.



This preview shows how white text looks on a background with the CIELCh color 16, 12.290, 359.703.

# 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, 12.290, 359.703

### Protanopia

16, 2.802, 290.929

### Deuteranopia

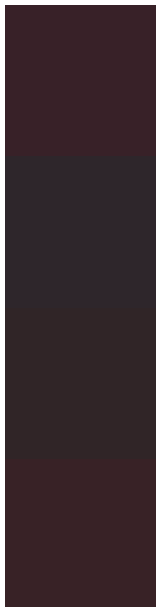
16, 2.458, 19.910





**Tritanopia**  
16, 11.316, 15.444

# Trichromacy



**Original Color**  
16, 12.290, 359.703

**Protanomaly**  
16, 5.203, 338.525

**Deuteranomaly**  
16, 5.630, 6.509

**Tritanomaly**  
16, 11.375, 8.494

# Monochromacy



**Original Color**  
16, 12.290, 359.703

**Achromatopsia**  
17, 0.003, 296.813

**Achromatomaly**  
16, 4.868, 355.201

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 16, 12.290, 359.703 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(56, 33, 40)` looks like.

```
.text, #text, p{  
    color:rgb(56, 33, 40)  
}
```

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(56, 33, 40) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(56, 33, 40) }
```

## Border

The CSS property to change the border of an element to CIELCh 16, 12.290, 359.703 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(56, 33, 40) }
```

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

```
.border{ border-color:rgb(56, 33, 40) }
```

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

Here you see how a box with a 4 pixel rgb(56, 33, 40) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(56, 33, 40); -webkit-box-  
shadow:4px 4px 4px 4px rgb(56, 33, 40);  
box-shadow:4px 4px 4px 4px rgb(56, 33, 40)  
}
```

# Background

The CSS property to change the background color of an element to CIELCh 16, 12.290, 359.703 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(56, 33, 40) }
```

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

```
.background{ background-color: rgb(56, 33,  
40) }
```

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