

# Converting Colors

CIELCh(12, 31.292, 322.272)

Have a look what the booklet for  
CIELCh(12, 31.292, 322.272)  
contains.

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**Color**

**CIELCh(12, 30.954, 322.134)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	33113A
RGB	51, 17, 58
RGB Percent	20%, 7%, 23%
CMY	0.8002, 0.9335, 0.7728
CMYK	0.12, 0.71, 0.00, 0.77
HSL	290°, 55%, 15%
HSV	290°, 71%, 23%
XYZ	2.3242, 1.4064, 4.1443
YIQ	31.8400, 7.1030, 19.9590

# Conversions

## Conversions Part 2

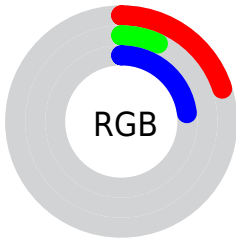
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	51, 17, 58
Decimal	3346746
CIE Lab	12.00, 24.44, -19.00
CIE LCh	12, 30.954, 322.134
Yxy	1.4064, 0.2951, 0.1786
Android (android.graphics.Color)	4281536826 (0xFF33113A)
YUV	31.8400, 12.8969, 16.8033
Hunter-Lab	11.8591, 14.2294, -12.4182

# Details

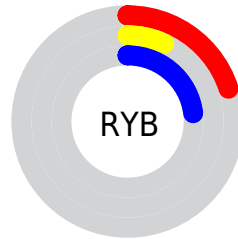
The CIELCh color **12, 30.954, 322.134** is a dark color, and the websafe version is hex **330033**. A complement of this color would be **21, 30.529, 135.857**, and the grayscale version is **12, 0.003, 296.813**.

A 20% lighter version of the original color is **32, 30.512, 322.349**, and **0, 4.948, 286.966** is the 20% darker color. If you saturate the color by 10%, you get **11, 34.357, 322.274**, and if you desaturate by 10%, it is **13, 27.070, 321.900**.

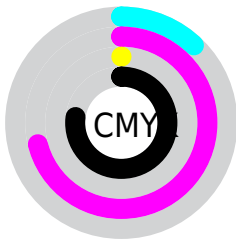
# Distribution



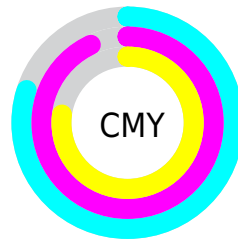
- Red (20%)
- Green (7%)
- Blue (23%)



- Red (20%)
- Yellow (7%)
- Blue (23%)



- Cyan (12%)
- Magenta (71%)
- Yellow (0%)
- Black (77%)




- Cyan (80%)
- Magenta (93%)
- Yellow (77%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 12, 30.954, 322.134 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, 30.954, 322.134 by changing the saturation by 10% instead.




 12, 30.954,  
322.134


 12, 30.954,  
322.134


 100, 30.954,  
322.134


 2, 30.954, 322.134


 32, 30.954,  
322.134

 0, 30.954, 322.134

 42, 30.954,  
322.134


 52, 30.954,  
322.134


 62, 30.954,  
322.134


 72, 30.954,  
322.134


 82, 30.954,


322.134


 92, 30.954,  
322.134


 12, 30.954,  
322.134

 12, 30.954,  
322.134


 11, 34.357,  
322.274


 13, 27.070,  
321.900

 10, 37.477,  
322.376

 15, 22.854,  
321.598

 8, 40.727, 322.573

 17, 18.432,  
321.249

 19, 13.905,  
320.871

 20, 9.347, 320.478

■ 22, 4.813, 320.077

■ 24, 0.338, 319.442

■ 26, 4.054, 139.356

■ 28, 8.350, 138.986

# Harmonies

# Complementary

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



12, 30.954, 322.134



21, 30.529, 135.857

# Rectangle

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



12, 30.954, 322.134



12, 30.954, 12.134



12, 30.954, 142.134



12, 30.954, 192.134

# Sweetspot

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



12, 30.953, 322.134



27, 11.935, 320.529



10, 24.664, 292.359



12, 7.931, 320.556



68, 0.008, 296.813



15, 0.003, 296.813





# Same Dimension

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



12, 30.953, 322.134



15, 44.154, 322.301



13, 25.569, 340.105



9, 2.408, 319.975



17, 55.521, 322.156



46, 104.691, 321.675



# Inverse Universe

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



12, 21.756, 15.198



15, 32.504, 20.770



21, 25.572, 148.659



9, 1.497, 6.054



17, 43.116, 26.889



46, 85.074, 32.197



# Previews

## White Background



This preview shows how the CIELCh color 12, 30.954, 322.134 looks on a white background.

## Color Contrast Check

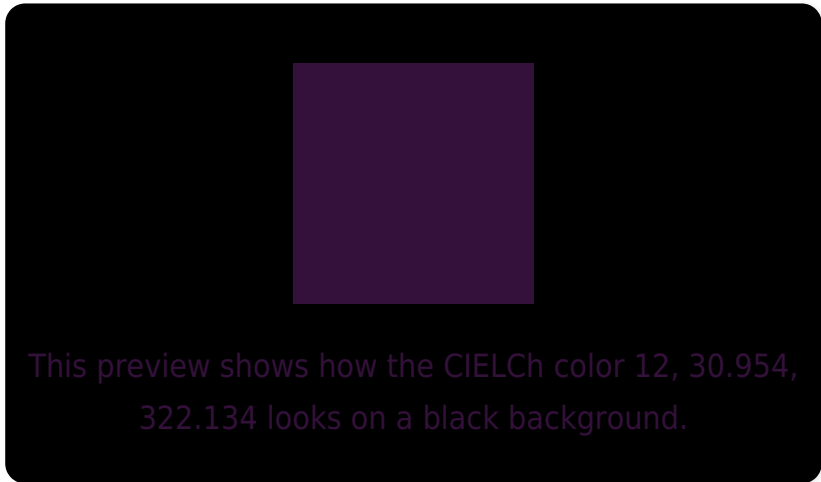
Large Text (above 18pt) WCAG AA ✓ Pass

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

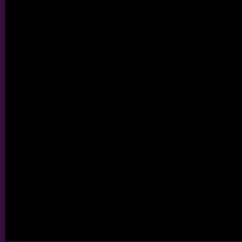
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 12, 30.954, 322.134

## Background



This preview shows how black text looks on a background with the CIELCh color 12, 30.954, 322.134.



This preview shows how white text looks on a background with the CIELCh color 12, 30.954, 322.134.

# 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, 30.954, 322.134

### Protanopia

12, 25.748, 280.385

### Deuteranopia

12, 16.436, 275.541





**Tritanopia**  
12, 10.614, 14.970

# Trichromacy



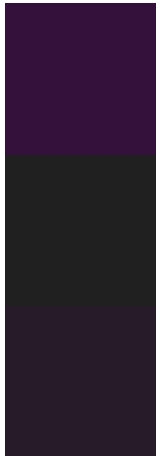
**Original Color**  
12, 30.954, 322.134

**Protanomaly**  
11, 26.868, 292.835

**Deuteranomaly**  
11, 21.122, 298.235

**Tritanomaly**  
12, 16.718, 338.465

# Monochromacy



**Original Color**  
12, 30.954, 322.134

**Achromatopsia**  
12, 0.003, 296.813

**Achromatomaly**  
12, 11.608, 321.746

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 12, 30.954, 322.134 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(51, 17, 58)` looks like.

```
.text, #text, p{  
    color:rgb(51, 17, 58)  
}
```

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(51, 17, 58) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 17, 58) }
```

## Border

The CSS property to change the border of an element to CIELCh 12, 30.954, 322.134 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(51, 17, 58) }
```

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

```
.border{ border-color:rgb(51, 17, 58) }
```

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

Here you see how a box with a 4 pixel rgb(51, 17, 58) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(51, 17, 58); -webkit-box-  
shadow:4px 4px 4px 4px rgb(51, 17, 58);  
box-shadow:4px 4px 4px 4px rgb(51, 17, 58)  
}
```

# Background

The CSS property to change the background color of an element to CIELCh 12, 30.954, 322.134 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 17, 58) }
```

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

```
.background{ background-color: rgb(51, 17,  
58) }
```

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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