

# Converting Colors

CIELCh(51, 11.488, 325.993)

Have a look what the booklet for  
CIELCh(51, 11.488, 325.993)  
contains.

<b>CIELCh(51, 12.001, 325.101)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	21
<b><i>Color Blindness Simulation</i></b> .....	24
<b><i>CSS Examples</i></b> .....	27

# Color

**CIELCh(51, 12.001, 325.101)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	857485
RGB	133, 116, 133
RGB Percent	52%, 45%, 52%
CMY	0.4773, 0.5440, 0.4773
CMYK	0.00, 0.13, 0.00, 0.48
HSL	300°, 7%, 49%
HSV	300°, 13%, 52%
XYZ	20.2514, 19.2686, 24.9481
YIQ	123.0210, 4.6750, 8.8910

# Conversions

## Conversions Part 2

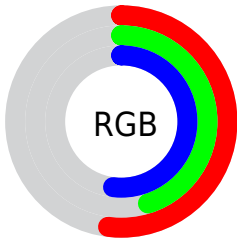
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	133, 116, 133
Decimal	8746117
CIE <sub>Lab</sub>	51.00, 9.84, -6.87
CIE <sub>LCh</sub>	51, 12.001, 325.101
Yxy	19.2686, 0.3141, 0.2989
Android (android.graphics.Color)	4286936197 (0xFF857485)
YUV	123.0210, 4.9196, 8.7516
Hunter-Lab	43.8960, 5.5327, -2.9700

# Details

The CIELCh color  $51, 12.001, 325.101$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $54, 11.985, 143.717$ , and the grayscale version is  $52, 0.007, 296.813$ .

A 20% lighter version of the original color is  $71, 11.931, 324.946$ , and  $31, 12.048, 323.629$  is the 20% darker color. If you saturate the color by 10%, you get  $48, 21.460, 325.634$ , and if you desaturate by 10%, it is  $55, 2.581, 324.515$ .

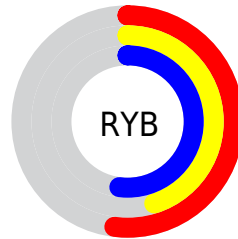
# Distribution



Red (52%)

Green (45%)

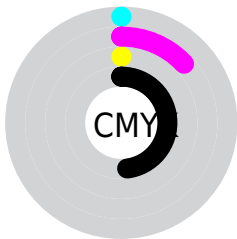
Blue (52%)



Red (52%)

Yellow (45%)

Blue (52%)

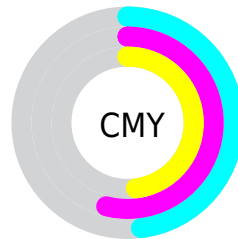


Cyan (0%)

Magenta (13%)

Yellow (0%)

Black (48%)



Cyan (48%)

Magenta (54%)


Yellow (48%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 51, 12.001, 325.101 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 51, 12.001, 325.101 by changing the saturation by 10% instead.





 51, 12.001,  
325.101


 51, 12.001,  
325.101


 100, 12.001,  
325.101


 41, 12.001,  
325.101


 71, 12.001,  
325.101

 31, 12.001,  
325.101

 81, 12.001,  
325.101

 21, 12.001,  
325.101

 91, 12.001,  
325.101

 11, 12.001,  
325.101

 1, 12.001, 325.101

 0, 12.001, 325.101

51, 12.001,  
325.101

51, 12.001,  
325.101

48, 21.460,  
325.634

55, 2.581, 324.515

44, 30.812,  
326.149

58, 6.690, 144.097

41, 39.842,  
326.636

62, 15.752,  
143.574

38, 48.275,  
327.080

66, 24.565,  
143.082

36, 55.785,  
327.465

70, 33.114,  
142.616

34, 62.035,  
327.779

74, 41.393,  
142.175


33, 66.739,  
328.010


78, 49.408,  
141.761

32, 69.753,

82, 57.166,  
141.374

328.157

 85, 64.681,  
141.012

 31, 71.382,  
328.235

# Harmonies

# Complementary

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



51, 12.001, 325.101



54, 11.985, 143.717

# Rectangle

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



51, 12.001, 325.101



51, 12.001, 15.101



51, 12.001, 145.101



51, 12.001, 195.101

# Sweetspot

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



51, 11.999, 325.101



69, 4.643, 324.609



49, 9.981, 291.480



36, 3.286, 324.651



86, 0.010, 296.813



37, 0.005, 296.813





# Same Dimension

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



51, 11.999, 325.101



64, 17.509, 325.240



51, 8.472, 344.658



26, 5.272, 324.902



30, 70.122, 328.235



0, 1.256, 324.440



# Inverse Universe

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



51, 11.999, 325.101



64, 17.509, 325.240



54, 8.338, 162.644



26, 5.272, 324.902



30, 70.122, 328.235



0, 1.256, 324.440



# Previews

## White Background



This preview shows how the CIE LCh color 51, 12.001, 325.101 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

# Black Background



This preview shows how the CIE LCh color 51, 12.001, 325.101 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

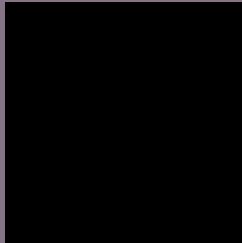
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# CIELCh 51, 12.001, 325.101

## Background



This preview shows how black text looks on a background with the CIELCh color 51, 12.001, 325.101.



This preview shows how white text looks on a background with the CIELCh color 51, 12.001, 325.101.

# 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

51, 12.001, 325.101


### Protanopia

51, 8.763, 286.327

### Deuteranopia

51, 9.630, 315.109





**Tritanopia**  
51, 8.389, 336.411

# Trichromacy



**Original Color**  
51, 12.001, 325.101

**Protanomaly**  
51, 9.570, 302.941

**Deuteranomaly**  
51, 10.683, 319.687

**Tritanomaly**  
51, 9.224, 331.186

# Monochromacy



**Original Color**  
51, 12.001, 325.101

**Achromatopsia**  
52, 0.007, 296.813

**Achromatomaly**  
52, 4.253, 324.646

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 51, 12.001, 325.101 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(133, 116, 133)` looks like.

```
.text, #text, p{  
    color:rgb(133, 116, 133)  
}
```

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(133, 116, 133) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 116, 133) }
```

## Border

The CSS property to change the border of an element to CIELCh 51, 12.001, 325.101 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(133, 116, 133) }
```

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

```
.border{ border-color:rgb(133, 116, 133) }
```

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

Here you see how a box with a 4 pixel `rgb(133, 116, 133)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 116, 133); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 116, 133);  
box-shadow:4px 4px 4px 4px rgb(133, 116,  
133) }
```

# Background

The CSS property to change the background color of an element to CIELCh 51, 12.001, 325.101 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 116, 133) }
```

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

```
.background{ background-color: rgb(133,  
116, 133) }
```

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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