

# Converting Colors

CIELCh(51, 9.035, 292.006)

Have a look what the booklet for  
CIELCh(51, 9.035, 292.006) contains.

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# Color

**CIELCh(51, 9.339, 291.372)**

# Conversions

## Conversions Part 1

Format	Color
Hex	787888
RGB	120, 120, 136
RGB Percent	47%, 47%, 53%
CMY	0.5287, 0.5287, 0.4659
CMYK	0.12, 0.12, 0.00, 0.47
HSL	240°, 6%, 50%
HSV	240°, 12%, 53%
XYZ	18.9694, 19.2686, 26.0845
YIQ	121.8240, -5.1360, 4.9760

# Conversions

## Conversions Part 2

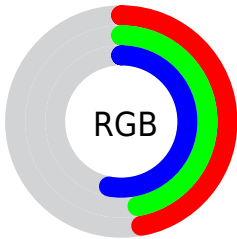
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	120, 120, 136
Decimal	7895176
CIE Lab	51.00, 3.40, -8.70
CIE LCh	51, 9.339, 291.372
Yxy	19.2686, 0.2949, 0.2996
Android (android.graphics.Color)	4286085256 (0xFF787888)
YUV	121.8240, 6.9888, -1.5996
Hunter-Lab	43.8960, 0.3196, -4.5049

# Details

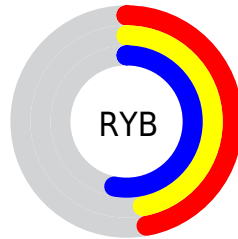
The CIELCh color  $51, 9.339, 291.372$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $56, 9.097, 109.079$ , and the grayscale version is  $51, 0.007, 296.813$ .

A 20% lighter version of the original color is  $71, 9.296, 291.099$ , and  $31, 8.927, 289.191$  is the 20% darker color. If you saturate the color by 10%, you get  $46, 17.628, 292.569$ , and if you desaturate by 10%, it is  $56, 1.370, 290.373$ .

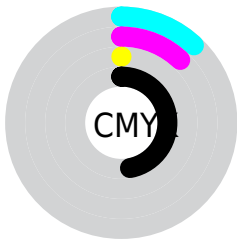
# Distribution



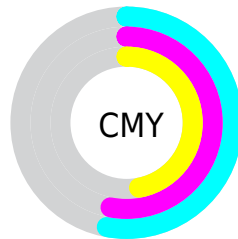
- Red (47%)
- Green (47%)
- Blue (53%)



- Red (47%)
- Yellow (47%)
- Blue (53%)



- Cyan (12%)
- Magenta (12%)
- Yellow (0%)
- Black (47%)



- Cyan (53%)
- Magenta (53%)
- Yellow (47%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 51, 9.339, 291.372 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, 9.339, 291.372 by changing the saturation by 10% instead.



■ 51, 9.339, 291.372

■ 51, 9.339, 291.372

■ 100, 9.339,  
291.372

■ 41, 9.339, 291.372

■ 71, 9.339, 291.372

■ 31, 9.339, 291.372

■ 81, 9.339, 291.372

■ 21, 9.339, 291.372

■ 91, 9.339, 291.372

■ 11, 9.339, 291.372

■ 1, 9.339, 291.372

■ 0, 9.339, 291.372

■ 51, 9.339, 291.372

■ 51, 9.339, 291.372

■ 46, 17.628,  
292.569

■ 56, 1.370, 290.373

■ 61, 6.299, 109.457

41, 26.264,  
293.977

66, 13.691,  
108.714

36, 35.261,  
295.613

70, 20.827,  
108.074

31, 44.606,  
297.483

75, 27.722,  
107.522

27, 54.194,  
299.546

80, 34.394,  
107.044

22, 63.723,  
301.693

85, 40.856,  
106.629

19, 72.505,  
303.702

89, 47.121,  
106.266

16, 79.388,  
305.265

94, 53.201,  
105.948

14, 83.953,  
306.286

# Harmonies

# Complementary

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



51, 9.339, 291.372



56, 9.097, 109.079

# Rectangle

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



51, 9.339, 291.372



51, 9.339, 341.372



51, 9.339, 111.372



51, 9.339, 161.372

# Sweetspot

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



51, 9.338, 291.368



69, 3.866, 290.578



56, 6.116, 197.419



36, 2.772, 290.643



87, 0.010, 296.813



38, 0.005, 296.813



# Same Dimension

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



51, 9.338, 291.368



63, 13.781, 291.656



52, 9.828, 308.997



26, 4.503, 291.088



14, 82.342, 306.286



0, 2.057, 290.175





# Inverse Universe

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



52, 6.561, 20.077



65, 9.731, 20.278



56, 9.668, 127.981



27, 3.148, 19.878



27, 63.127, 38.656



0, 1.414, 19.399



# Previews

## White Background



This preview shows how the CIELCh color 51, 9.339, 291.372 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, 9.339, 291.372 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

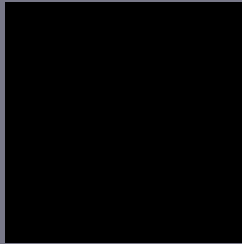
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

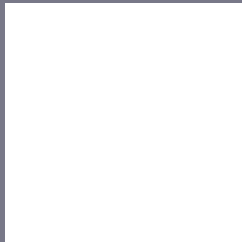
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 51, 9.339, 291.372

## Background



This preview shows how black text looks on a background with the CIELCh color 51, 9.339, 291.372.



This preview shows how white text looks on a background with the CIELCh color 51, 9.339, 291.372.

# 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, 9.339, 291.372

### Protanopia

51, 8.763, 286.327

### Deuteranopia

51, 11.560, 306.931



**Tritanopia**  
51, 5.870, 283.373



# Trichromacy



**Original Color**  
51, 9.339, 291.372

**Protanomaly**  
51, 8.763, 286.327

**Deuteranomaly**  
51, 10.713, 301.764

**Tritanomaly**  
51, 7.026, 284.811

# Monochromacy



**Original Color**  
51, 9.339, 291.372

**Achromatopsia**  
51, 0.007, 296.813

**Achromatomaly**  
51, 3.502, 290.639

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 51, 9.339, 291.372 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(120, 120, 136)` looks like.

```
.text, #text, p{  
    color:rgb(120, 120, 136)  
}
```

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(120, 120, 136) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(120, 120, 136) }
```

## Border

The CSS property to change the border of an element to CIELCh 51, 9.339, 291.372 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(120, 120, 136) }
```

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

```
.border{ border-color:rgb(120, 120, 136) }
```

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

Here you see how a box with a 4 pixel `rgb(120, 120, 136)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(120, 120, 136); -webkit-box-  
shadow:4px 4px 4px 4px rgb(120, 120, 136);  
box-shadow:4px 4px 4px 4px rgb(120, 120,  
136) }
```

# Background

The CSS property to change the background color of an element to CIELCh 51, 9.339, 291.372 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(120, 120, 136) }
```

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

```
.background{ background-color: rgb(120,  
120, 136) }
```

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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