

# Converting Colors

CIELCh(51, 20.568, 293.298)

Have a look what the booklet for  
CIELCh(51, 20.568, 293.298)  
contains.

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# Color

**CIELCh(51, 21.037, 293.782)**

# Conversions

## Conversions Part 1

Format	Color
Hex	77769A
RGB	119, 118, 154
RGB Percent	47%, 46%, 60%
CMY	0.5327, 0.5366, 0.3954
CMYK	0.23, 0.23, 0.00, 0.40
HSL	242°, 15%, 53%
HSV	242°, 23%, 60%
XYZ	19.9761, 19.2686, 33.3142
YIQ	122.4030, -10.9600, 11.4080

# Conversions

## Conversions Part 2

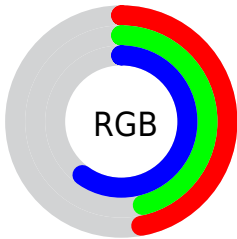
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	119, 118, 154
Decimal	7829146
CIE Lab	51.00, 8.48, -19.25
CIE LCh	51, 21.037, 293.782
Yxy	19.2686, 0.2753, 0.2656
Android (android.graphics.Color)	4286019226 (0xFF77769A)
YUV	122.4030, 15.5773, -2.9844
Hunter-Lab	43.8960, 4.4132, -14.2700

# Details

The CIELCh color  $51, 21.037, 293.782$  is a dark color, and the websafe version is hex  $666699$ . A complement of this color would be  $63, 19.942, 109.168$ , and the grayscale version is  $51, 0.007, 296.813$ .

A 20% lighter version of the original color is  $71, 20.816, 294.091$ , and  $31, 21.043, 293.882$  is the 20% darker color. If you saturate the color by 10%, you get  $46, 30.669, 295.167$ , and if you desaturate by 10%, it is  $56, 11.791, 292.595$ .

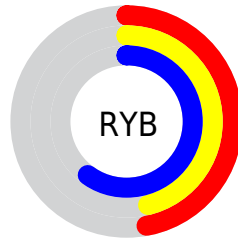
# Distribution



Red (47%)

Green (46%)

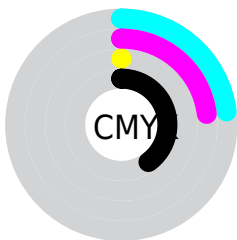
Blue (60%)



Red (47%)

Yellow (46%)

Blue (60%)

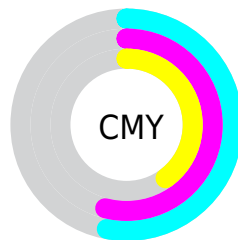


Cyan (23%)

Magenta (23%)

Yellow (0%)

Black (40%)



Cyan (53%)

Magenta (54%)

Yellow (40%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 51, 21.037, 293.782 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, 21.037, 293.782 by changing the saturation by 10% instead.



■ 51, 21.037,  
293.782

■ 51, 21.037,  
293.782

■ 100, 21.037,  
293.782

■ 41, 21.037,  
293.782

■ 71, 21.037,  
293.782

■ 31, 21.037,  
293.782

■ 81, 21.037,  
293.782

■ 21, 21.037,  
293.782

■ 91, 21.037,  
293.782

■ 11, 21.037,  
293.782

■ 1, 21.037, 293.782

■ 0, 21.037, 293.782

51, 21.037,  
293.782

51, 21.037,  
293.782

46, 30.669,  
295.167

56, 11.791,  
292.595

40, 40.701,  
296.770

62, 2.910, 291.594

67, 5.632, 110.708

35, 51.093,  
298.586

73, 13.861,  
109.975

30, 61.692,  
300.565

78, 21.799,  
109.343

25, 72.077,  
302.577

83, 29.465,  
108.800

21, 81.373,  
304.386


88, 36.878,  
108.331

19, 88.230,  
305.685

93, 44.054,  
107.924

17, 91.750,

306.389

 98, 50.140,  
106.766

# Harmonies

# Complementary

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



51, 21.037, 293.782



63, 19.942, 109.168

# Rectangle

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



51, 21.037, 293.782



51, 21.037, 343.782



51, 21.037, 113.782



51, 21.037, 163.782

# Sweetspot

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



51, 21.036, 293.781



76, 7.596, 291.951



61, 12.749, 199.808



40, 4.979, 292.003



91, 0.011, 296.813



43, 0.006, 296.813





# Same Dimension

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



51, 21.036, 293.781



62, 31.698, 294.476



53, 22.097, 310.708



29, 4.920, 292.159



15, 85.604, 306.402



0, 5.232, 291.255



# Inverse Universe

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



54, 24.347, 326.447



67, 36.269, 326.727



61, 21.442, 128.614



30, 5.829, 325.667



33, 72.507, 329.344

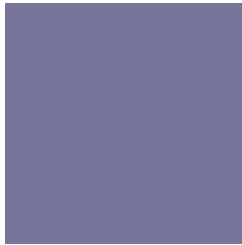


1, 6.250, 325.289



# Previews

## White Background



This preview shows how the CIELCh color 51, 21.037, 293.782 looks on a white background.

## Color Contrast Check

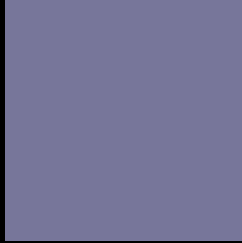
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

# Black Background



This preview shows how the CIELCh color 51, 21.037, 293.782 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

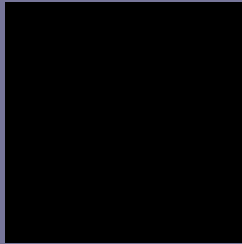
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# CIELCh 51, 21.037, 293.782

## Background



This preview shows how black text looks on a background with the CIELCh color 51, 21.037, 293.782.



This preview shows how white text looks on a background with the CIELCh color 51, 21.037, 293.782.

# 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, 21.037, 293.782

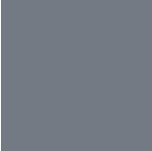
### Protanopia

51, 21.094, 285.248

### Deuteranopia

51, 20.427, 289.775





**Tritanopia**  
51, 6.358, 266.065

# Trichromacy



**Original Color**  
51, 21.037, 293.782

**Protanomaly**  
51, 21.020, 288.992

**Deuteranomaly**  
51, 20.419, 290.756

**Tritanomaly**  
51, 11.143, 283.899

# Monochromacy



**Original Color**  
51, 21.037, 293.782

**Achromatopsia**  
52, 0.007, 296.813

**Achromatomaly**  
51, 7.594, 294.045

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 51, 21.037, 293.782 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(119, 118, 154)` looks like.

```
.text, #text, p{  
    color:rgb(119, 118, 154)  
}
```

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(119, 118, 154) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(119, 118, 154) }
```

## Border

The CSS property to change the border of an element to CIELCh 51, 21.037, 293.782 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(119, 118, 154) }
```

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

```
.border{ border-color:rgb(119, 118, 154) }
```

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

Here you see how a box with a 4 pixel `rgb(119, 118, 154)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(119, 118, 154); -webkit-box-  
shadow:4px 4px 4px 4px rgb(119, 118, 154);  
box-shadow:4px 4px 4px 4px rgb(119, 118,  
154) }
```

# Background

The CSS property to change the background color of an element to CIELCh 51, 21.037, 293.782 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(119, 118, 154) }
```

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

```
.background{ background-color: rgb(119,  
118, 154) }
```

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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