

# Converting Colors

CIELCh(51, 27.701, 294.220)

Have a look what the booklet for  
CIELCh(51, 27.701, 294.220)  
contains.

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# Color

**CIELCh(51, 27.451, 294.292)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7675A4
RGB	118, 117, 164
RGB Percent	46%, 46%, 64%
CMY	0.5371, 0.5410, 0.3567
CMYK	0.28, 0.29, 0.00, 0.36
HSL	241°, 21%, 55%
HSV	241°, 29%, 64%
XYZ	20.5478, 19.2686, 37.7789
YIQ	122.6570, -14.4910, 14.8290

# Conversions

## Conversions Part 2

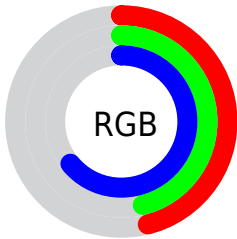
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	118, 117, 164
Decimal	7763364
CIE <sub>Lab</sub>	51.00, 11.29, -25.02
CIE <sub>LCh</sub>	51, 27.451, 294.292
Yxy	19.2686, 0.2648, 0.2483
Android (android.graphics.Color)	4285953444 (0xFF7675A4)
YUV	122.6570, 20.3821, -4.0842
Hunter-Lab	43.8960, 6.7382, -20.3004

# Details

The CIELCh color  $51, 27.451, 294.292$  is a dark color, and the websafe version is hex  $666699$ . A complement of this color would be  $66, 25.654, 108.391$ , and the grayscale version is  $51, 0.007, 296.813$ .

A 20% lighter version of the original color is  $71, 27.377, 294.210$ , and  $31, 27.386, 294.212$  is the 20% darker color. If you saturate the color by 10%, you get  $45, 37.814, 295.824$ , and if you desaturate by 10%, it is  $57, 17.506, 292.977$ .

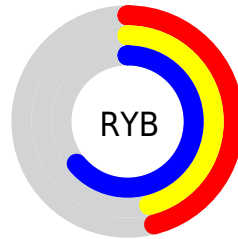
# Distribution



Red (46%)

Green (46%)

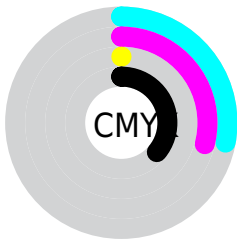
Blue (64%)



Red (46%)

Yellow (46%)

Blue (64%)

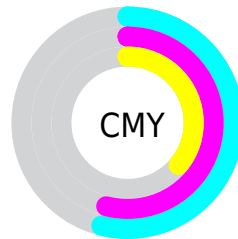


Cyan (28%)

Magenta (29%)

Yellow (0%)

Black (36%)



Cyan (54%)

Magenta (54%)


Yellow (36%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 51, 27.451, 294.292 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, 27.451, 294.292 by changing the saturation by 10% instead.





 51, 27.451,  
294.292


 51, 27.451,  
294.292


 100, 27.451,  
294.292


 41, 27.451,  
294.292


 71, 27.451,  
294.292

 31, 27.451,  
294.292

 81, 27.451,  
294.292

 21, 27.451,  
294.292

 91, 27.451,  
294.292

 11, 27.451,  
294.292

 1, 27.451, 294.292

 0, 27.451, 294.292

51, 27.451,  
294.292

51, 27.451,  
294.292

45, 37.814,  
295.824

57, 17.506,  
292.977

40, 48.590,  
297.582

62, 7.963, 291.858

34, 59.685,  
299.539

68, 1.208, 110.856

29, 70.801,  
301.603

74, 10.034,  
110.077

25, 81.239,  
303.580

79, 18.539,  
109.383

21, 89.741,  
305.173

85, 26.748,  
108.787


19, 95.356,  
306.219

90, 34.679,  
108.273

19, 96.078,

96, 42.352,  
107.829

306.360

 98, 45.416,  
106.707

# Harmonies

# Complementary

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



51, 27.451, 294.292



66, 25.654, 108.391

# Rectangle

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



51, 27.451, 294.292



51, 27.451, 344.292



51, 27.451, 114.292



51, 27.451, 164.292

# Sweetspot

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



51, 27.450, 294.292



79, 10.303, 291.911



64, 16.141, 199.597



41, 7.165, 292.057



93, 0.011, 296.813



45, 0.006, 296.813





# Same Dimension

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



51, 27.450, 294.292



62, 40.984, 295.182



53, 28.700, 310.982



32, 5.191, 291.921



16, 87.904, 306.371



0, 7.949, 290.937



# Inverse Universe

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



55, 31.532, 326.555



68, 46.345, 326.870



64, 27.641, 128.356



32, 6.178, 325.492



34, 74.789, 329.079



2, 9.519, 325.203



# Previews

## White Background



This preview shows how the CIELCh color 51, 27.451, 294.292 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, 27.451, 294.292 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

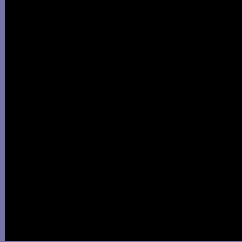
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# CIELCh 51, 27.451, 294.292

## Background



This preview shows how black text looks on a background with the CIELCh color 51, 27.451, 294.292.



This preview shows how white text looks on a background with the CIELCh color 51, 27.451, 294.292.

# 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, 27.451, 294.292

### Protanopia

51, 26.957, 285.050

### Deuteranopia

51, 25.745, 285.893





**Tritanopia**  
51, 7.072, 254.874

# Trichromacy



**Original Color**  
51, 27.451, 294.292

**Protanomaly**  
51, 26.849, 288.501

**Deuteranomaly**  
51, 26.253, 289.021

**Tritanomaly**  
51, 13.586, 281.038

# Monochromacy



**Original Color**  
51, 27.451, 294.292

**Achromatopsia**  
52, 0.007, 296.813

**Achromatomaly**  
51, 9.908, 291.436

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 51, 27.451, 294.292 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(118, 117, 164)` looks like.

```
.text, #text, p{  
    color:rgb(118, 117, 164)  
}
```

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(118, 117, 164) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(118, 117, 164) }
```

## Border

The CSS property to change the border of an element to CIELCh 51, 27.451, 294.292 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(118, 117, 164) }
```

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

```
.border{ border-color:rgb(118, 117, 164) }
```

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

Here you see how a box with a 4 pixel `rgb(118, 117, 164)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(118, 117, 164); -webkit-box-  
shadow:4px 4px 4px 4px rgb(118, 117, 164);  
box-shadow:4px 4px 4px 4px rgb(118, 117,  
164) }
```

# Background

The CSS property to change the background color of an element to CIELCh 51, 27.451, 294.292 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(118, 117, 164) }
```

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

```
.background{ background-color: rgb(118,  
117, 164) }
```

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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