

# Converting Colors

CIELCh(51, 31.983, 294.136)

Have a look what the booklet for  
CIELCh(51, 31.983, 294.136)  
contains.

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# Color

**CIELCh(51, 32.113, 294.138)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	7474AB
RGB	116, 116, 171
RGB Percent	45%, 45%, 67%
CMY	0.5436, 0.5437, 0.3279
CMYK	0.32, 0.32, 0.00, 0.33
HSL	240°, 25%, 56%
HSV	240°, 32%, 67%
XYZ	20.9280, 19.2686, 41.3406
YIQ	122.2700, -17.6550, 17.1050

# Conversions

## Conversions Part 2

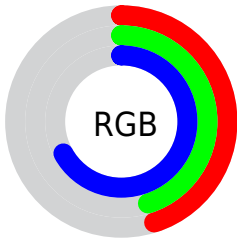
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	116, 116, 171
Decimal	7632043
CIE <sub>Lab</sub>	51.00, 13.13, -29.31
CIE <sub>LCh</sub>	51, 32.113, 294.138
Yxy	19.2686, 0.2567, 0.2363
Android (android.graphics.Color)	4285822123 (0xFF7474AB)
YUV	122.2700, 24.0239, -5.4988
Hunter-Lab	43.8960, 8.2839, -25.1112

# Details

The CIELCh color **51, 32.113, 294.138** is a dark color, and the websafe version is hex **666699**. A complement of this color would be **69, 29.713, 107.135**, and the grayscale version is **51, 0.007, 296.813**.

A 20% lighter version of the original color is **71, 32.292, 293.854**, and **31, 31.835, 293.918** is the 20% darker color. If you saturate the color by 10%, you get **45, 43.016, 295.832**, and if you desaturate by 10%, it is **57, 21.653, 292.683**.

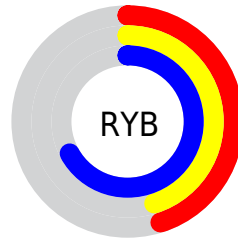
# Distribution



Red (45%)

Green (45%)

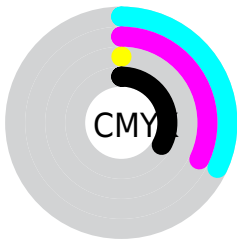
Blue (67%)



Red (45%)

Yellow (45%)

Blue (67%)

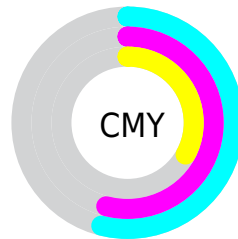


Cyan (32%)

Magenta (32%)

Yellow (0%)

Black (33%)



Cyan (54%)

Magenta (54%)


Yellow (33%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 51, 32.113, 294.138 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, 32.113, 294.138 by changing the saturation by 10% instead.





 51, 32.113,  
294.138


 51, 32.113,  
294.138


 100, 32.113,  
294.138


 41, 32.113,  
294.138


 71, 32.113,  
294.138


 31, 32.113,  
294.138


 81, 32.113,  
294.138

 21, 32.113,  
294.138

 91, 32.113,  
294.138

 11, 32.113,  
294.138

 1, 32.113, 294.138

 0, 32.113, 294.138

51, 32.113,  
294.138

51, 32.113,  
294.138

45, 43.016,  
295.832

57, 21.653,  
292.683

39, 54.339,  
297.765

63, 11.622,  
291.446

34, 65.929,  
299.889

69, 1.990, 290.417

29, 77.347,  
302.071

75, 7.275, 109.486

24, 87.632,  
304.057

81, 16.198,  
108.727

21, 95.265,  
305.517

86, 24.805,  
108.076

20, 99.355,  
306.288

92, 33.118,  
107.516

98, 41.156,  
107.032

 98, 41.856,  
106.982

# Harmonies

# Complementary

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



51, 32.113, 294.138



69, 29.713, 107.135

# Rectangle

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



51, 32.113, 294.138



51, 32.113, 344.138



51, 32.113, 114.138



51, 32.113, 164.138

# Sweetspot

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



51, 32.112, 294.138



81, 11.798, 291.230



66, 18.816, 197.855



42, 8.135, 291.382



95, 0.011, 296.813



47, 0.006, 296.813





# Same Dimension

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



51, 32.112, 294.138



60, 48.897, 295.399



53, 33.375, 310.617



33, 5.457, 291.136



17, 90.271, 306.288



1, 11.347, 290.185



# Inverse Universe

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



56, 37.080, 326.156



68, 55.195, 326.536



67, 31.923, 127.594



34, 6.589, 324.929



35, 77.947, 328.242

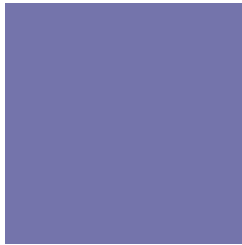


2, 13.853, 324.448



# Previews

## White Background



This preview shows how the CIELCh color 51, 32.113, 294.138 looks on a white background.

## Color Contrast Check

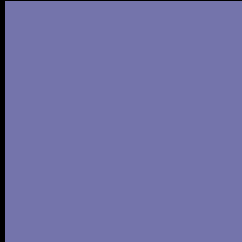
Large Text (above 18pt) WCAG AA ✓ Pass

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, 32.113, 294.138 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

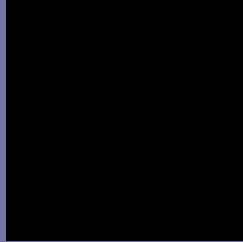
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# CIELCh 51, 32.113, 294.138

## Background



This preview shows how black text looks on a background with the CIELCh color 51, 32.113, 294.138.



This preview shows how white text looks on a background with the CIELCh color 51, 32.113, 294.138.

# 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, 32.113, 294.138

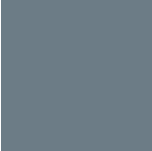
### Protanopia

51, 31.650, 284.850

### Deuteranopia

51, 29.953, 284.008





**Tritanopia**  
51, 8.226, 244.267

# Trichromacy



**Original Color**  
51, 32.113, 294.138

**Protanomaly**  
51, 31.507, 288.189

**Deuteranomaly**  
51, 30.363, 287.788

**Tritanomaly**  
51, 16.041, 279.303

# Monochromacy



**Original Color**  
51, 32.113, 294.138

**Achromatopsia**  
52, 0.007, 296.813

**Achromatomaly**  
51, 11.653, 291.650

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 51, 32.113, 294.138 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(116, 116, 171)` looks like.

```
.text, #text, p{  
    color:rgb(116, 116, 171)  
}
```

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(116, 116, 171) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(116, 116, 171) }
```

## Border

The CSS property to change the border of an element to CIELCh 51, 32.113, 294.138 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(116, 116, 171) }
```

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

```
.border{ border-color:rgb(116, 116, 171) }
```

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

Here you see how a box with a 4 pixel `rgb(116, 116, 171)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(116, 116, 171); -webkit-box-  
shadow:4px 4px 4px 4px rgb(116, 116, 171);  
box-shadow:4px 4px 4px 4px rgb(116, 116,  
171) }
```

# Background

The CSS property to change the background color of an element to CIELCh 51, 32.113, 294.138 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(116, 116, 171) }
```

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

```
.background{ background-color: rgb(116,  
116, 171) }
```

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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