

# Converting Colors

CIELCh(51, 18.492, 312.455)

Have a look what the booklet for  
CIELCh(51, 18.492, 312.455)  
contains.

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# Color

**CIELCh(51, 18.735, 312.245)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	847391
RGB	132, 115, 145
RGB Percent	52%, 45%, 57%
CMY	0.4817, 0.5484, 0.4307
CMYK	0.09, 0.21, 0.00, 0.43
HSL	274°, 12%, 51%
HSV	274°, 21%, 57%
XYZ	20.8166, 19.2686, 29.4805
YIQ	123.5030, 0.5020, 12.9340

# Conversions

## Conversions Part 2

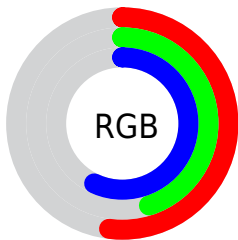
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	132, 115, 145
Decimal	8680337
CIE <sub>Lab</sub>	51.00, 12.60, -13.87
CIE <sub>LCh</sub>	51, 18.735, 312.245
Yxy	19.2686, 0.2992, 0.2770
Android (android.graphics.Color)	4286870417 (0xFF847391)
YUV	123.5030, 10.5980, 7.4519
Hunter-Lab	43.8960, 7.8310, -9.0919

# Details

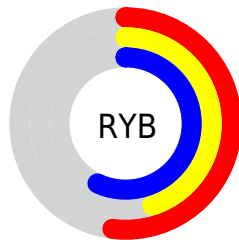
The CIELCh color  $51, 18.735, 312.245$  is a dark color, and the websafe version is hex  $666699$ . A complement of this color would be  $58, 18.302, 130.478$ , and the grayscale version is  $52, 0.007, 296.813$ .

A 20% lighter version of the original color is  $71, 18.739, 311.914$ , and  $31, 18.905, 311.573$  is the 20% darker color. If you saturate the color by 10%, you get  $47, 28.089, 312.712$ , and if you desaturate by 10%, it is  $55, 9.553, 311.794$ .

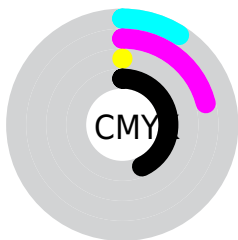
# Distribution



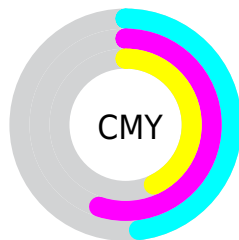
- Red (52%)
- Green (45%)
- Blue (57%)



- Red (52%)
- Yellow (45%)
- Blue (57%)



- Cyan (9%)
- Magenta (21%)
- Yellow (0%)
- Black (43%)




- Cyan (48%)
- Magenta (55%)
- Yellow (43%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 51, 18.735, 312.245 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, 18.735, 312.245 by changing the saturation by 10% instead.





 51, 18.735,  
312.245


 51, 18.735,  
312.245


 100, 18.735,  
312.245


 41, 18.735,  
312.245


 71, 18.735,  
312.245

 31, 18.735,  
312.245

 81, 18.735,  
312.245

 21, 18.735,  
312.245

 91, 18.735,  
312.245

 11, 18.735,  
312.245

 1, 18.735, 312.245

 0, 18.735, 312.245

51, 18.735,  
312.245

51, 18.735,  
312.245

47, 28.089,  
312.712

55, 9.553, 311.794

42, 37.530,  
313.184

60, 0.597, 311.205

38, 46.901,  
313.633

64, 8.112, 131.024

34, 55.953,  
314.019

69, 16.567,  
130.673

31, 64.315,  
314.284

73, 24.771,  
130.363

28, 71.486,  
314.348

78, 32.729,  
130.088


25, 76.914,  
314.123

82, 40.453,  
129.845

23, 80.705,

87, 47.953,  
129.633

313.733

 91, 55.243,  
129.447

# Harmonies

# Complementary

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



51, 18.735, 312.245



58, 18.302, 130.478

# Rectangle

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



51, 18.735, 312.245



51, 18.735, 2.245



51, 18.735, 132.245



51, 18.735, 182.245

# Sweetspot

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



51, 18.733, 312.244



73, 6.618, 311.592



53, 10.611, 263.585



38, 4.378, 311.617



88, 0.010, 296.813



40, 0.006, 296.813





# Same Dimension

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



51, 18.733, 312.244



63, 28.214, 312.470



52, 20.203, 326.927



28, 4.979, 311.727



21, 76.569, 313.806



0, 3.326, 311.360



# Inverse Universe

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



52, 14.241, 349.278



64, 21.436, 349.798



57, 20.182, 144.504



28, 3.783, 348.140



28, 52.674, 7.038

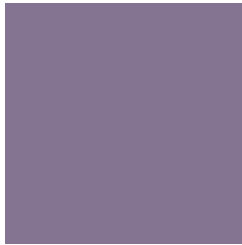


1, 2.522, 347.403



# Previews

## White Background



This preview shows how the CIELCh color 51, 18.735, 312.245 looks on a white background.

## Color Contrast Check

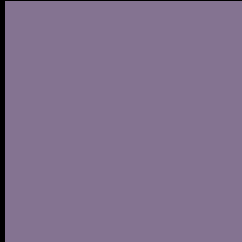
Large Text (above 18pt) WCAG AA ✓ Pass

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, 18.735, 312.245 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

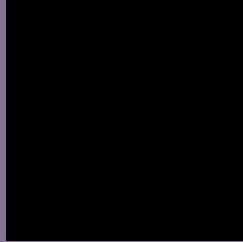
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# CIELCh 51, 18.735, 312.245

## Background



This preview shows how black text looks on a background with the CIELCh color 51, 18.735, 312.245.



This preview shows how white text looks on a background with the CIELCh color 51, 18.735, 312.245.

# 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, 18.735, 312.245

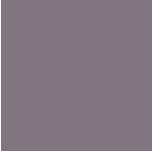
### Protanopia

51, 16.967, 286.243

### Deuteranopia

51, 14.659, 296.371





**Tritanopia**  
51, 7.321, 327.440

# Trichromacy



**Original Color**  
51, 18.735, 312.245

**Protanomaly**  
51, 17.586, 295.952

**Deuteranomaly**  
51, 15.523, 303.173

**Tritanomaly**  
51, 11.194, 318.260

# Monochromacy



**Original Color**  
51, 18.735, 312.245

**Achromatopsia**  
52, 0.007, 296.813

**Achromatomaly**  
52, 6.851, 310.970

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 51, 18.735, 312.245 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(132, 115, 145)` looks like.

```
.text, #text, p{  
    color:rgb(132, 115, 145)  
}
```

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(132, 115, 145) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(132, 115, 145) }
```

## Border

The CSS property to change the border of an element to CIELCh 51, 18.735, 312.245 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(132, 115, 145) }
```

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

```
.border{ border-color:rgb(132, 115, 145) }
```

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

Here you see how a box with a 4 pixel `rgb(132, 115, 145)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(132, 115, 145); -webkit-box-  
shadow:4px 4px 4px 4px rgb(132, 115, 145);  
box-shadow:4px 4px 4px 4px rgb(132, 115,  
145) }
```

# Background

The CSS property to change the background color of an element to CIELCh 51, 18.735, 312.245 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(132, 115, 145) }
```

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

```
.background{ background-color: rgb(132,  
115, 145) }
```

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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