

# Converting Colors

CIELCh(51, 20.081, 317.666)

Have a look what the booklet for  
CIELCh(51, 20.081, 317.666)  
contains.

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**Color**

**CIELCh(51, 19.990, 316.919)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	887291
RGB	136, 114, 145
RGB Percent	53%, 45%, 57%
CMY	0.4672, 0.5534, 0.4319
CMYK	0.06, 0.21, 0.00, 0.43
HSL	283°, 12%, 51%
HSV	283°, 21%, 57%
XYZ	21.2348, 19.2686, 29.3336
YIQ	124.1120, 3.1610, 14.3050

# Conversions

## Conversions Part 2

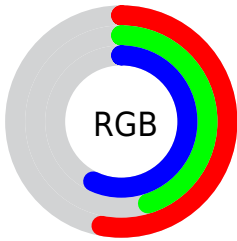
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">136, 114, 145</a>
Decimal	<a href="#">8942225</a>
CIELab	<a href="#">51.00, 14.60, -13.65</a>
CIELCh	<a href="#">51, 19.990, 316.919</a>
Yxy	<a href="#">19.2686, 0.3041, 0.2759</a>
Android (android.graphics.Color)	<a href="#">4287132305 (0xFF887291)</a>
YUV	<a href="#">124.1120, 10.2978, 10.4258</a>
Hunter-Lab	<a href="#">43.8960, 9.5316, -8.8935</a>

# Details

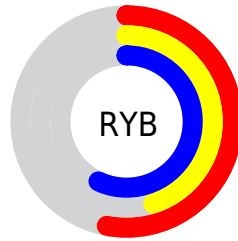
The CIELCh color  $51, 19.990, 316.919$  is a dark color, and the websafe version is hex  $666699$ . A complement of this color would be  $58, 19.690, 135.087$ , and the grayscale version is  $52, 0.007, 296.813$ .

A 20% lighter version of the original color is  $71, 20.085, 317.285$ , and  $31, 20.185, 316.617$  is the 20% darker color. If you saturate the color by 10%, you get  $47, 29.516, 317.345$ , and if you desaturate by 10%, it is  $55, 10.550, 316.490$ .

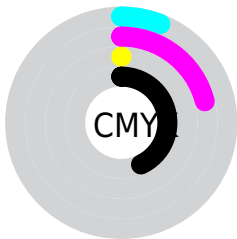
# Distribution



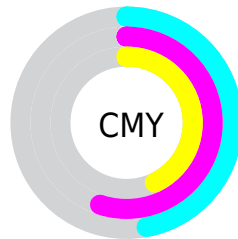
- Red (53%)
- Green (45%)
- Blue (57%)



- Red (53%)
- Yellow (45%)
- Blue (57%)



- Cyan (6%)
- Magenta (21%)
- Yellow (0%)
- Black (43%)




- Cyan (47%)
- Magenta (55%)
- Yellow (43%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 51, 19.990, 316.919 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, 19.990, 316.919 by changing the saturation by 10% instead.





 51, 19.990,  
316.919


 51, 19.990,  
316.919


 100, 19.990,  
316.919


 41, 19.990,  
316.919


 71, 19.990,  
316.919

 31, 19.990,  
316.919

 81, 19.990,  
316.919

 21, 19.990,  
316.919

 91, 19.990,  
316.919

 11, 19.990,  
316.919

 1, 19.990, 316.919

 0, 19.990, 316.919

51, 19.990,  
316.919

51, 19.990,  
316.919

47, 29.516,  
317.345

55, 10.550,  
316.490

43, 38.998,  
317.752

60, 1.283, 315.983

39, 48.230,  
318.114

64, 7.768, 135.727

36, 56.914,  
318.394

68, 16.578,  
135.357

32, 64.658,  
318.543

73, 25.138,  
135.022

30, 71.002,  
318.505

77, 33.450,  
134.717


28, 75.524,  
318.221

81, 41.519,  
134.442

26, 78.363,

86, 49.356,  
134.194

317.848

 90, 56.970,  
133.971

# Harmonies

# Complementary

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



51, 19.990, 316.919



58, 19.690, 135.087

# Rectangle

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



51, 19.990, 316.919



51, 19.990, 6.919



51, 19.990, 136.919



51, 19.990, 186.919

# Sweetspot

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



51, 19.988, 316.919



73, 6.857, 316.260



52, 12.972, 276.627



38, 4.536, 316.285



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, 19.988, 316.919



63, 30.248, 317.139



52, 18.821, 331.834



28, 5.155, 316.394



24, 74.481, 317.906



0, 3.451, 316.036



# Inverse Universe

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



51, 13.694, 358.757



63, 20.827, 359.389



57, 18.745, 149.066



28, 3.488, 357.413



28, 54.498, 20.361

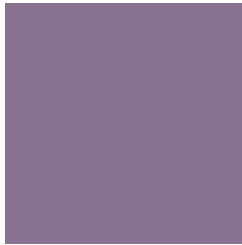


0, 2.314, 356.629



# Previews

## White Background



This preview shows how the CIELCh color 51, 19.990, 316.919 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, 19.990, 316.919 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

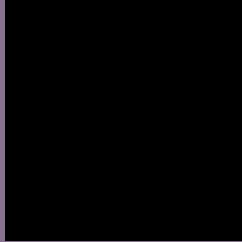
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# CIELCh 51, 19.990, 316.919

## Background



This preview shows how black text looks on a background with the CIELCh color 51, 19.990, 316.919.



This preview shows how white text looks on a background with the CIELCh color 51, 19.990, 316.919.

# 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, 19.990, 316.919


### Protanopia

51, 16.967, 286.243

### Deuteranopia

51, 14.696, 297.819





**Tritanopia**  
51, 8.311, 341.317

# Trichromacy



**Original Color**  
51, 19.990, 316.919

**Protanomaly**  
51, 17.075, 298.481

**Deuteranomaly**  
51, 16.365, 306.724

**Tritanomaly**  
51, 12.223, 326.679

# Monochromacy



**Original Color**  
51, 19.990, 316.919

**Achromatopsia**  
52, 0.007, 296.813

**Achromatomaly**  
51, 7.697, 315.016

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 51, 19.990, 316.919 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(136, 114, 145)` looks like.

```
.text, #text, p{  
    color:rgb(136, 114, 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(136, 114, 145) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(136, 114, 145) }
```

## Border

The CSS property to change the border of an element to CIELCh 51, 19.990, 316.919 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(136, 114, 145) }
```

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

```
.border{ border-color:rgb(136, 114, 145) }
```

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

Here you see how a box with a 4 pixel `rgb(136, 114, 145)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(136, 114, 145); -webkit-box-  
shadow:4px 4px 4px 4px rgb(136, 114, 145);  
box-shadow:4px 4px 4px 4px rgb(136, 114,  
145) }
```

# Background

The CSS property to change the background color of an element to CIELCh 51, 19.990, 316.919 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(136, 114, 145) }
```

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

```
.background{ background-color: rgb(136,  
114, 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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