

# Converting Colors

CIELCh(50, 110.502, 315.652)

Have a look what the booklet for  
CIELCh(50, 110.502, 315.652)  
contains.

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**Color**

**CIELCh(50, 110.394, 315.735)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AF31FD
RGB	175, 49, 253
RGB Percent	69%, 19%, 99%
CMY	0.3135, 0.8076, 0.0076
CMYK	0.31, 0.81, 0.00, 0.01
HSL	277°, 98%, 59%
HSV	277°, 81%, 99%
XYZ	36.5324, 18.4187, 94.6057
YIQ	109.9300, 9.6120, 90.1560

# Conversions

## Conversions Part 2

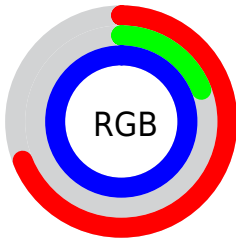
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	175, 49, 253
Decimal	11481597
CIE Lab	50.00, 79.06, -77.05
CIE LCh	50, 110.394, 315.735
Yxy	18.4187, 0.2443, 0.1232
Android (android.graphics.Color)	4289671677 (0xFFAF31FD)
YUV	109.9300, 70.5335, 57.0664
Hunter-Lab	42.9170, 76.8406, -100.6563

# Details

The CIELCh color **50, 110.394, 315.735** is a light color, and the websafe version is hex **9933FF**. The color can be described as light washed purple. A complement of this color would be **89, 102.548, 130.204**, and the grayscale version is **46, 0.006, 296.813**.

A 20% lighter version of the original color is **67, 84.641, 323.251**, and **33, 100.064, 314.089** is the 20% darker color. If you saturate the color by 10%, you get **47, 117.438, 315.353**, and if you desaturate by 10%, it is **54, 100.249, 315.796**.

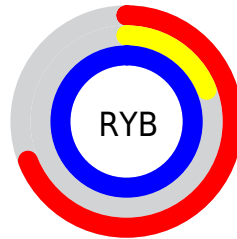
# Distribution



Red (69%)

Green (19%)

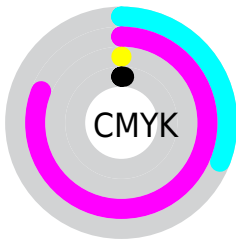
Blue (99%)



Red (69%)

Yellow (19%)

Blue (99%)

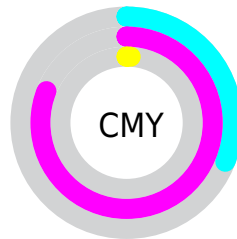


Cyan (31%)

Magenta (81%)

Yellow (0%)

Black (1%)



Cyan (31%)

Magenta (81%)


Yellow (1%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 50, 110.394, 315.735 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 50, 110.394, 315.735 by changing the saturation by 10% instead.





 50, 110.394,  
315.735


 50, 110.394,  
315.735


 100, 110.394,  
315.735


 40, 110.394,  
315.735


 70, 110.394,  
315.735


 30, 110.394,  
315.735


 80, 110.394,  
315.735


 20, 110.394,  
315.735

 90, 110.394,  
315.735

 10, 110.394,  
315.735

 0, 110.394,  
315.735

 50, 110.394,

 50, 110.394,

315.735

■ 47, 117.438,  
315.353

■ 45, 121.182,  
314.691

315.735

■ 54, 100.249,  
315.796

■ 60, 87.823,  
315.620

■ 65, 73.969,  
315.292

■ 72, 59.371,  
314.877

■ 78, 44.510,  
314.422

■ 85, 29.696,  
313.959

■ 92, 15.113,  
313.505

■ 99, 0.866, 312.881

100, 0.974,  
110.026

# Harmonies

# Complementary

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



50, 110.394, 315.735



89, 102.548, 130.204

# Rectangle

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



50, 110.394, 315.735



50, 110.394, 5.735



50, 110.394, 135.735



50, 110.394, 185.735

# Sweetspot

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



50, 110.393, 315.735



83, 34.917, 314.116



55, 72.323, 286.756



42, 24.066, 314.281



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



50, 110.393, 315.735



46, 120.842, 314.911



61, 99.896, 332.515



49, 8.139, 313.456



33, 98.041, 314.874



7, 44.590, 316.166



# Inverse Universe

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



57, 77.951, 5.298



54, 84.547, 12.967



88, 105.428, 139.236



50, 5.926, 351.342



41, 68.580, 13.521

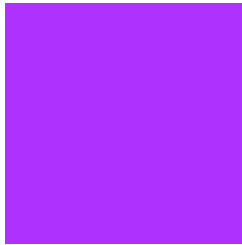


10, 31.283, 6.295



# Previews

## White Background



This preview shows how the CIELCh color 50, 110.394, 315.735 looks on a white background.

## Color Contrast Check

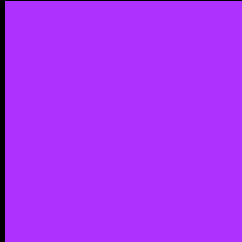
Large Text (above 18pt) WCAG AA ✓ Pass

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 50, 110.394, 315.735 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 50, 110.394, 315.735

## Background



This preview shows how black text looks on a background with the CIELCh color 50, 110.394, 315.735.



This preview shows how white text looks on a background with the CIELCh color 50, 110.394, 315.735.





# 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


50, 110.394, 315.735

### Protanopia

50, 74.196, 287.203

### Deuteranopia

50, 53.798, 275.729



**Tritanopia**  
50, 18.955, 7.741

# Trichromacy



**Original Color**  
50, 110.394, 315.735



**Protanomaly**  
46, 90.622, 297.800



**Deuteranomaly**  
45, 77.242, 295.124



**Tritanomaly**  
48, 51.963, 325.009

# Monochromacy



**Original Color**  
50, 110.394, 315.735



**Achromatopsia**  
46, 0.006, 296.813



**Achromatomaly**  
45, 46.526, 315.165

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 50, 110.394, 315.735 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(175, 49, 253)` looks like.

```
.text, #text, p{  
    color:rgb(175, 49, 253)  
}
```

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(175, 49, 253) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(175, 49, 253) }
```

## Border

The CSS property to change the border of an element to CIELCh 50, 110.394, 315.735 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(175, 49, 253) }
```

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

```
.border{ border-color:rgb(175, 49, 253) }
```

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

Here you see how a box with a 4 pixel `rgb(175, 49, 253)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(175, 49, 253); -webkit-box-  
shadow:4px 4px 4px 4px rgb(175, 49, 253);  
box-shadow:4px 4px 4px 4px rgb(175, 49,  
253) }
```

# Background

The CSS property to change the background color of an element to CIELCh 50, 110.394, 315.735 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(175, 49, 253) }
```

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

```
.background{ background-color: rgb(175, 49,  
253) }
```

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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