

# Converting Colors

CIELCh(50, 115.465, 317.394)

Have a look what the booklet for  
CIELCh(50, 115.465, 317.394)  
contains.

<b>CIELCh(50, 115.453, 317.408)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	21
<b><i>Color Blindness Simulation</i></b> .....	25
<b><i>CSS Examples</i></b> .....	28

**Color**

**CIELCh(50, 115.453, 317.408)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B81FFF
RGB	184, 31, 255
RGB Percent	72%, 12%, 100%
CMY	0.2780, 0.8777, 0.0000
CMYK	0.28, 0.88, 0.00, 0.00
HSL	281°, 100%, 56%
HSV	281°, 88%, 100%
XYZ	38.3526, 18.4187, 96.2253
YIQ	102.2830, 19.2840, 102.1000

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	184, 31, 255
Decimal	12066815
CIE <sub>Lab</sub>	50.00, 85.00, -78.14
CIE <sub>LCh</sub>	50, 115.453, 317.408
Yxy	18.4187, 0.2507, 0.1204
Android (android.graphics.Color)	4290256895 (0xFFB81FFF)
YUV	102.2830, 75.2895, 71.6658
Hunter-Lab	42.9170, 84.4114, -102.8939

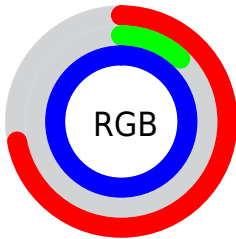
# Details

The CIELCh color **50, 115.453, 317.408** is a light color, and the websafe version is hex **CC00FF**.

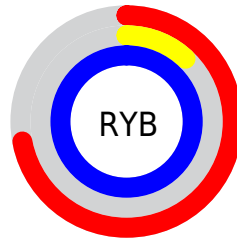
The color can be described as light washed purple. A complement of this color would be **89, 110.027, 132.162**, and the grayscale version is **43, 0.006, 296.813**.

A 20% lighter version of the original color is **67, 89.714, 325.428**, and **34, 100.109, 315.043** is the 20% darker color. If you saturate the color by 10%, you get **48, 119.579, 316.804**, and if you desaturate by 10%, it is **53, 107.927, 317.712**.

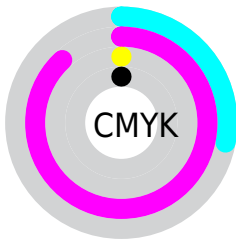
# Distribution



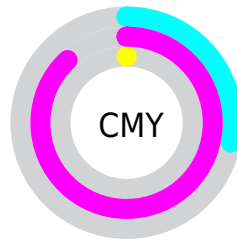
- Red (72%)
- Green (12%)
- Blue (100%)



- Red (72%)
- Yellow (12%)
- Blue (100%)



- Cyan (28%)
- Magenta (88%)
- Yellow (0%)
- Black (0%)




- Cyan (28%)
- Magenta (88%)
- Yellow (0%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 50, 115.453, 317.408 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, 115.453, 317.408 by changing the saturation by 10% instead.





 50, 115.453,  
317.408


 50, 115.453,  
317.408


 100, 115.453,  
317.408


 40, 115.453,  
317.408


 70, 115.453,  
317.408


 30, 115.453,  
317.408


 80, 115.453,  
317.408


 20, 115.453,  
317.408

 90, 115.453,  
317.408

 10, 115.453,  
317.408

 0, 115.453,  
317.408

 50, 115.453,

 50, 115.453,

317.408

317.408

■ 48, 119.579,  
316.804

■ 53, 107.927,  
317.712

■ 47, 120.268,  
316.647

■ 58, 97.492,  
317.732

■ 63, 84.876,  
317.549

■ 69, 70.869,  
317.232

■ 75, 56.118,  
316.836

■ 81, 41.086,  
316.401

■ 88, 26.080,  
315.954

■ 95, 11.288,  
315.508

100, 0.012,  
296.813

# Harmonies

# Complementary

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



50, 115.453, 317.408



89, 110.027, 132.162

# Rectangle

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



50, 115.453, 317.408



50, 115.453, 7.408



50, 115.453, 137.408



50, 115.453, 187.408

# Sweetspot

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



50, 115.409, 317.418



82, 38.416, 316.322



49, 86.701, 292.941



41, 26.100, 316.476



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, 115.409, 317.418



47, 120.268, 316.647



59, 99.781, 335.324



49, 8.271, 315.586



35, 96.767, 316.817



8, 44.205, 318.025



# Inverse Universe

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



55, 82.429, 14.194



54, 87.554, 20.822



88, 108.463, 139.338



50, 5.714, 355.662



40, 70.139, 19.735



10, 31.398, 11.551



# Previews

## White Background



This preview shows how the CIELCh color 50, 115.453, 317.408 looks on a white background.

## Color Contrast Check

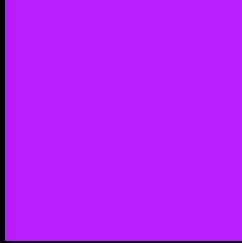
Large Text (above 18pt) WCAG AA ✓ Pass

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, 115.453, 317.408 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

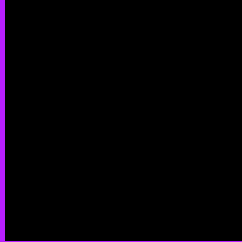
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**CIELCh 50, 115.453, 317.408**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 50, 115.453, 317.408.



This preview shows how white text looks on a background with the CIELCh color 50, 115.453, 317.408.





# 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, 115.453, 317.408

### Protanopia

50, 74.196, 287.203

### Deuteranopia

50, 53.798, 275.729



**Tritanopia**  
50, 24.527, 13.220

# Trichromacy



**Original Color**  
50, 115.453, 317.408



**Protanomaly**  
45, 94.773, 299.393



**Deuteranomaly**  
44, 81.535, 297.189



**Tritanomaly**  
47, 57.509, 329.207

# Monochromacy



**Original Color**  
50, 115.453, 317.408



**Achromatopsia**  
43, 0.006, 296.813



**Achromatomaly**  
42, 52.082, 317.311

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 50, 115.453, 317.408 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(184, 31, 255)` looks like.

```
.text, #text, p{  
    color:rgb(184, 31, 255)  
}
```

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(184, 31, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(184, 31, 255) }
```

## Border

The CSS property to change the border of an element to CIELCh 50, 115.453, 317.408 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(184, 31, 255) }
```

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

```
.border{ border-color:rgb(184, 31, 255) }
```

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

Here you see how a box with a 4 pixel `rgb(184, 31, 255)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(184, 31, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(184, 31, 255);  
box-shadow:4px 4px 4px 4px rgb(184, 31,  
255) }
```

# Background

The CSS property to change the background color of an element to CIELCh 50, 115.453, 317.408 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(184, 31, 255) }
```

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

```
.background{ background-color: rgb(184, 31,  
255) }
```

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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