

# Converting Colors

CIELCh(64, 51.633, 295.421)

Have a look what the booklet for  
CIELCh(64, 51.633, 295.421)  
contains.

<b>CIELCh(64, 51.288, 295.358)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	11
<b><i>Previews</i></b> .....	20
<b><i>Color Blindness Simulation</i></b> .....	23
<b><i>CSS Examples</i></b> .....	26

# **Color**

**CIELCh(64, 51.288, 295.358)**

# Conversions

## Conversions Part 1

Format	Color
Hex	9292EE
RGB	146, 146, 238
RGB Percent	57%, 57%, 93%
CMY	0.4278, 0.4278, 0.0670
CMYK	0.39, 0.39, 0.00, 0.07
HSL	240°, 73%, 75%
HSV	240°, 39%, 93%
XYZ	37.5224, 32.8017, 85.1699
YIQ	156.4880, -29.5320, 28.6120

# Conversions

## Conversions Part 2

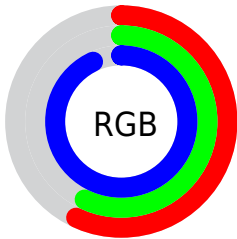
Format	Color
R <sub>Y</sub> B	146, 146, 238
Decimal	9605870
CIE Lab	64.00, 21.97, -46.35
CIE LCh	64, 51.288, 295.358
Yxy	32.8017, 0.2413, 0.2110
Android (android.graphics.Color)	4287795950 (0xFF9292EE)
YUV	156.4880, 40.1854, -9.1980
Hunter-Lab	57.2727, 16.7176, -48.0789

# Details

The CIELCh color `64, 51.288, 295.358` is a light color, and the websafe version is hex `9999FF`. A complement of this color would be `92, 46.403, 106.436`, and the grayscale version is `64, 0.008, 296.813`.

A 20% lighter version of the original color is `82, 29.207, 294.582`, and `44, 51.305, 295.346` is the 20% darker color. If you saturate the color by 10%, you get `56, 65.942, 297.275`, and if you desaturate by 10%, it is `72, 37.209, 293.695`.

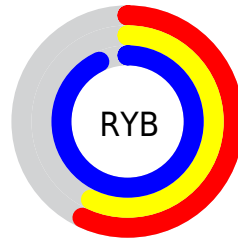
# Distribution



Red (57%)

Green (57%)

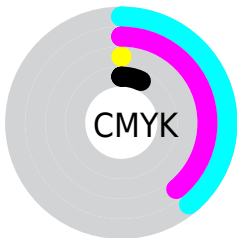
Blue (93%)



Red (57%)

Yellow (57%)

Blue (93%)

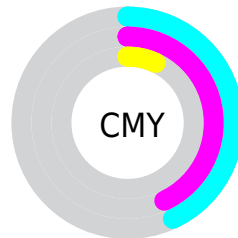


Cyan (39%)

Magenta (39%)

Yellow (0%)

Black (7%)



Cyan (43%)

Magenta (43%)


Yellow (7%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 64, 51.288, 295.358 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 64, 51.288, 295.358 by changing the saturation by 10% instead.




 64, 51.288,  
295.358

 64, 51.288,  
295.358


 100, 51.288,  
295.358


 54, 51.288,  
295.358


 84, 51.288,  
295.358

 44, 51.288,  
295.358

 94, 51.288,  
295.358

 34, 51.288,  
295.358

 24, 51.288,  
295.358

 14, 51.288,  
295.358

 4, 51.288, 295.358

 0, 51.288, 295.358

■ 64, 51.288,  
295.358

■ 64, 51.288,  
295.358

■ 56, 65.942,  
297.275

■ 72, 37.209,  
293.695

■ 49, 81.024,  
299.410

■ 80, 23.723,  
292.275

■ 42, 96.051,  
301.645

■ 87, 10.795,  
291.075

■ 36, 109.882,  
303.737

■ 95, 1.614, 110.005

■ 32, 120.555,  
305.339

■ 100, 8.653,  
109.521

■ 30, 126.367,  
306.199

■ 30, 126.968,  
306.287

# Harmonies

# Complementary

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



64, 51.288, 295.358



92, 46.403, 106.436

# Rectangle

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



64, 51.288, 295.358



64, 51.288, 345.358



64, 51.288, 115.358



64, 51.288, 165.358

# Sweetspot

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



64, 51.287, 295.358



90, 15.915, 291.458



89, 28.805, 195.936



47, 10.584, 291.612



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



64, 51.287, 295.358



62, 65.591, 296.774



68, 52.749, 310.478



46, 7.131, 291.165



22, 104.553, 306.287



3, 37.808, 298.749





# Inverse Universe

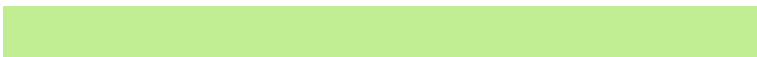
The Inverse Universe completely reimagines the original color for something new.



70, 37.737, 23.138



70, 48.657, 24.436



89, 49.765, 126.645



47, 4.993, 19.935



38, 81.701, 39.993

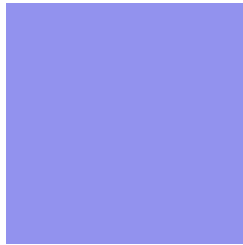


8, 29.836, 23.805



# Previews

## White Background



This preview shows how the CIELCh color 64, 51.288, 295.358 looks on a white background.

## Color Contrast Check

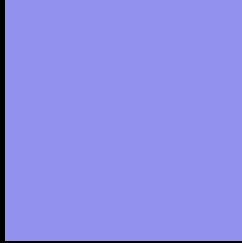
Large Text (above 18pt) WCAG AA × Fail

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 64, 51.288, 295.358 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

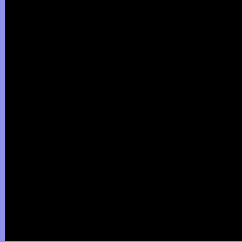
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 64, 51.288, 295.358

## Background



This preview shows how black text looks on a background with the CIELCh color 64, 51.288, 295.358.



This preview shows how white text looks on a background with the CIELCh color 64, 51.288, 295.358.

# 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

64, 51.288, 295.358

### Protanopia

64, 50.940, 285.810

### Deuteranopia

64, 46.352, 281.519



**Tritanopia**  
64, 12.278, 231.849



# Trichromacy



**Original Color**  
64, 51.288, 295.358

**Protanomaly**  
64, 50.750, 289.001

**Deuteranomaly**  
64, 48.119, 286.694

**Tritanomaly**  
64, 23.494, 277.116

# Monochromacy



**Original Color**  
64, 51.288, 295.358

**Achromatopsia**  
64, 0.008, 296.813

**Achromatomaly**  
64, 18.993, 292.190

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 64, 51.288, 295.358 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(146, 146, 238)` looks like.

```
.text, #text, p{  
    color:rgb(146, 146, 238)  
}
```

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(146, 146, 238) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(146, 146, 238) }
```

## Border

The CSS property to change the border of an element to CIELCh 64, 51.288, 295.358 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(146, 146, 238) }
```

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

```
.border{ border-color:rgb(146, 146, 238) }
```

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

Here you see how a box with a 4 pixel `rgb(146, 146, 238)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(146, 146, 238); -webkit-box-  
shadow:4px 4px 4px 4px rgb(146, 146, 238);  
box-shadow:4px 4px 4px 4px rgb(146, 146,  
238) }
```

# Background

The CSS property to change the background color of an element to CIELCh 64, 51.288, 295.358 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(146, 146, 238) }
```

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

```
.background{ background-color: rgb(146,  
146, 238) }
```

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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