

# Converting Colors

CIELCh(66, 49.562, 272.306)

Have a look what the booklet for  
CIELCh(66, 49.562, 272.306)  
contains.

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# Color

**CIELCh(66, 49.531, 272.215)**

# Conversions

## Conversions Part 1

Format	Color
Hex	55A4F9
RGB	85, 164, 249
RGB Percent	33%, 64%, 98%
CMY	0.6666, 0.3568, 0.0235
CMYK	0.66, 0.34, 0.00, 0.02
HSL	211°, 93%, 65%
HSV	211°, 66%, 98%
XYZ	34.1227, 35.3238, 94.6467
YIQ	150.0690, -74.3690, 9.6870

# Conversions

## Conversions Part 2

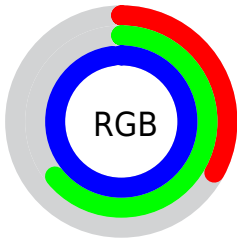
Format	Color
R <sub>Y</sub> B	85, 138, 249
Decimal	5612793
CIE Lab	66.00, 1.91, -49.49
CIE LCh	66, 49.531, 272.215
Yxy	35.3238, 0.2079, 0.2153
Android (android.graphics.Color)	4283802873 (0xFF55A4F9)
YUV	150.0690, 48.7730, -57.0655
Hunter-Lab	59.4338, -1.5271, -52.8140

# Details

The CIELCh color **66, 49.531, 272.215** is a light color, and the websafe version is hex **3399FF**. The color can be described as light muted azure. A complement of this color would be **76, 58.372, 68.689**, and the grayscale version is **62, 0.008, 296.813**.

A 20% lighter version of the original color is **84, 27.607, 242.163**, and **46, 48.822, 274.046** is the 20% darker color. If you saturate the color by 10%, you get **62, 56.802, 276.094**, and if you desaturate by 10%, it is **71, 42.257, 268.818**.

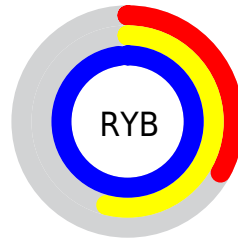
# Distribution



Red (33%)

Green (64%)

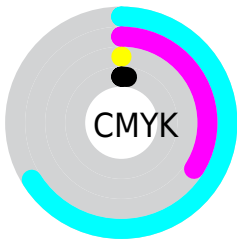
Blue (98%)



Red (33%)

Yellow (54%)

Blue (98%)

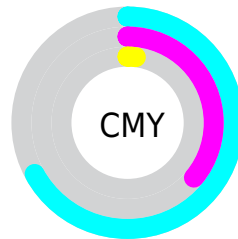


Cyan (66%)

Magenta (34%)

Yellow (0%)

Black (2%)



Cyan (67%)

Magenta (36%)


Yellow (2%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 66, 49.531, 272.215 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 66, 49.531, 272.215 by changing the saturation by 10% instead.





 66, 49.531,  
272.215


 66, 49.531,  
272.215


 100, 49.531,  
272.215


 56, 49.531,  
272.215


 86, 49.531,  
272.215

 46, 49.531,  
272.215

 96, 49.531,  
272.215

 36, 49.531,  
272.215

 26, 49.531,  
272.215

 16, 49.531,  
272.215

 6, 49.531, 272.215

 0, 49.531, 272.215

66, 49.531,  
272.215

66, 49.531,  
272.215

62, 56.802,  
276.094

71, 42.257,  
268.818

57, 64.173,  
280.373

75, 34.913,  
265.906

54, 71.745,  
284.879

80, 27.465,  
263.443

52, 74.967,  
286.692

85, 19.909,  
261.372

90, 12.262,  
259.639

95, 4.548, 258.223

100, 2.708,  
105.112

100, 3.028,  
109.926



# Harmonies

# Complementary

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



66, 49.531, 272.215



76, 58.372, 68.689

# Rectangle

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



66, 49.531, 272.215



66, 49.531, 322.215



66, 49.531, 92.215



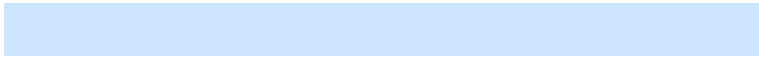
66, 49.531, 142.215

# Sweetspot

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



66, 49.530, 272.216



90, 15.740, 260.323



88, 65.404, 156.670



46, 10.725, 260.816



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



66, 49.530, 272.216



62, 60.250, 277.443



46, 95.294, 301.326



50, 4.419, 258.696



40, 59.819, 285.889



11, 23.720, 279.135



# Inverse Universe

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



61, 69.288, 353.211



58, 79.116, 356.639



95, 77.488, 104.998



49, 6.202, 345.418



40, 67.416, 3.823

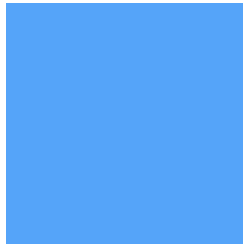


10, 30.904, 357.674



# Previews

## White Background



This preview shows how the CIE LCh color 66, 49.531, 272.215 looks on a white background.

## Color Contrast Check

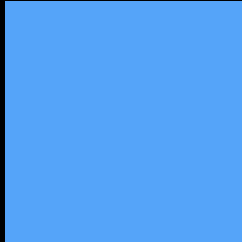
Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIE LCh color 66, 49.531, 272.215 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

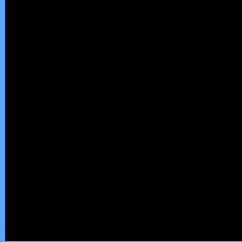
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

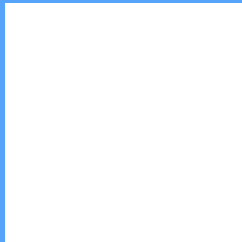
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 66, 49.531, 272.215

## Background



This preview shows how black text looks on a background with the CIELCh color 66, 49.531, 272.215.

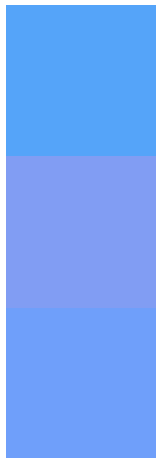


This preview shows how white text looks on a background with the CIELCh color 66, 49.531, 272.215.

# 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

66, 49.531, 272.215

### Protanopia

66, 47.905, 285.520

### Deuteranopia

66, 51.217, 281.072





**Tritanopia**  
66, 33.464, 210.479

# Trichromacy



**Original Color**  
66, 49.531, 272.215

**Protanomaly**  
66, 48.013, 279.733

**Deuteranomaly**  
66, 50.598, 277.863

**Tritanomaly**  
66, 34.220, 237.288

# Monochromacy



**Original Color**  
66, 49.531, 272.215

**Achromatopsia**  
62, 0.008, 296.813

**Achromatomaly**  
63, 19.505, 262.357

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 66, 49.531, 272.215 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(85, 164, 249)` looks like.

```
.text, #text, p{  
    color:rgb(85, 164, 249)  
}
```

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(85, 164, 249) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(85, 164, 249) }
```

## Border

The CSS property to change the border of an element to CIELCh 66, 49.531, 272.215 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(85, 164, 249) }
```

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

```
.border{ border-color:rgb(85, 164, 249) }
```

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

Here you see how a box with a 4 pixel `rgb(85, 164, 249)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(85, 164, 249); -webkit-box-  
shadow:4px 4px 4px 4px rgb(85, 164, 249);  
box-shadow:4px 4px 4px 4px rgb(85, 164,  
249) }
```

# Background

The CSS property to change the background color of an element to CIELCh 66, 49.531, 272.215 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(85, 164, 249) }
```

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

```
.background{ background-color: rgb(85, 164,  
249) }
```

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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