

# Converting Colors

CIELCh(70, 45.682, 271.181)

Have a look what the booklet for  
CIELCh(70, 45.682, 271.181)  
contains.

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# **Color**

**CIELCh(70, 45.718, 271.226)**

# Conversions

## Conversions Part 1

Format	Color
Hex	6AAFFE
RGB	106, 175, 254
RGB Percent	42%, 69%, 100%
CMY	0.5854, 0.3147, 0.0050
CMYK	0.58, 0.31, 0.00, 0.00
HSL	212°, 98%, 70%
HSV	212°, 58%, 100%
XYZ	39.0385, 40.7494, 99.3491
YIQ	163.3750, -66.4830, 9.9410

# Conversions

## Conversions Part 2

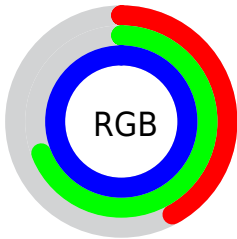
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	<a href="#">106, 153, 254</a>
Decimal	<a href="#">6991870</a>
CIELab	<a href="#">70.00, 0.98, -45.71</a>
CIELCh	<a href="#">70, 45.718, 271.226</a>
Yxy	<a href="#">40.7494, 0.2179, 0.2275</a>
Android (android.graphics.Color)	<a href="#">4285181950 (0xFF6AAFFE)</a>
YUV	<a href="#">163.3750, 44.6781, -50.3179</a>
Hunter-Lab	<a href="#">63.8353, -2.5499, -47.5904</a>

# Details

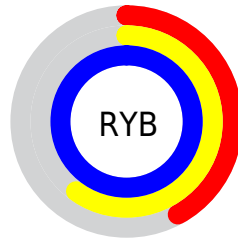
The CIELCh color **70, 45.718, 271.226** is a light color, and the websafe version is hex **3399FF**. A complement of this color would be **80, 52.154, 71.213**, and the grayscale version is **67, 0.008, 296.813**.

A 20% lighter version of the original color is **88, 23.111, 232.996**, and **50, 45.733, 271.247** is the 20% darker color. If you saturate the color by 10%, you get **65, 53.373, 274.726**, and if you desaturate by 10%, it is **75, 38.041, 268.205**.

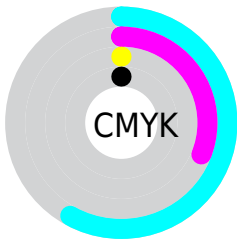
# Distribution



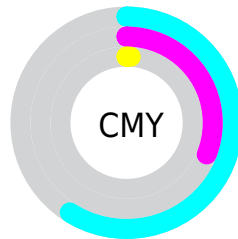
- Red (42%)
- Green (69%)
- Blue (100%)



- Red (42%)
- Yellow (60%)
- Blue (100%)



- Cyan (58%)
- Magenta (31%)
- Yellow (0%)
- Black (0%)




- Cyan (59%)
- Magenta (31%)
- Yellow (1%)


# Brightness & Saturation Gradients

These gradients show how the CIELCh color 70, 45.718, 271.226 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 70, 45.718, 271.226 by changing the saturation by 10% instead.





 70, 45.718,  
271.226


 70, 45.718,  
271.226


 100, 45.718,  
271.226


 60, 45.718,  
271.226


 90, 45.718,  
271.226

 50, 45.718,  
271.226

 40, 45.718,  
271.226

 30, 45.718,  
271.226

 20, 45.718,  
271.226

 10, 45.718,  
271.226

 0, 45.718, 271.226

70, 45.718,  
271.226

70, 45.718,  
271.226

65, 53.373,  
274.726

75, 38.041,  
268.205

61, 61.089,  
278.677

80, 30.300,  
265.635

57, 68.963,  
282.974

85, 22.480,  
263.468

53, 77.073,  
287.394

90, 14.590,  
261.647

52, 78.456,  
288.094

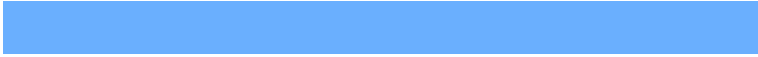
95, 6.649, 260.134

100, 0.631,  
110.008

# Harmonies

# Complementary

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



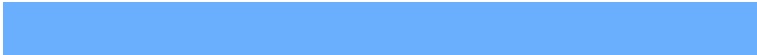
70, 45.718, 271.226



80, 52.154, 71.213

# Rectangle

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



70, 45.718, 271.226



70, 45.718, 321.226



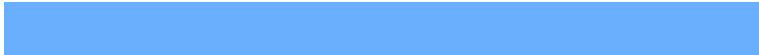
70, 45.718, 91.226



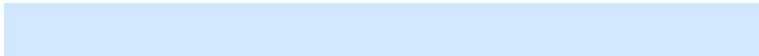
70, 45.718, 141.226

# Sweetspot

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



70, 45.717, 271.227



91, 14.384, 261.593



90, 59.183, 158.805



47, 9.987, 262.087



0, 0.000, 0.000

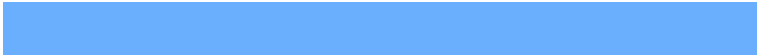


53, 0.007, 296.813

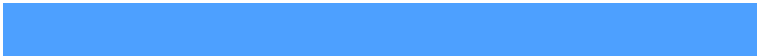


# Same Dimension

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



70, 45.717, 271.227



65, 54.873, 275.362



53, 84.782, 300.065



50, 4.553, 260.295



39, 62.317, 287.306



11, 25.215, 281.024





# Inverse Universe

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



65, 63.448, 352.709



61, 73.305, 355.302



97, 71.278, 106.334



50, 6.243, 346.281



41, 68.017, 5.344



10, 31.593, 359.231



# Previews

## White Background



This preview shows how the CIE LCh color 70, 45.718, 271.226 looks on a white background.

## Color Contrast Check

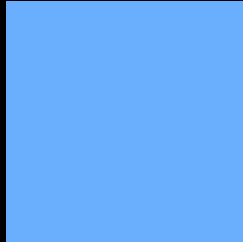
Large Text (above 18pt) WCAG AA × Fail

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 70, 45.718, 271.226 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

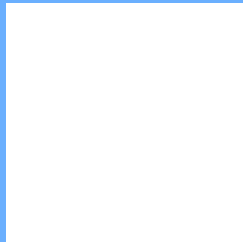
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 70, 45.718, 271.226

## Background



This preview shows how black text looks on a background with the CIELCh color 70, 45.718, 271.226.

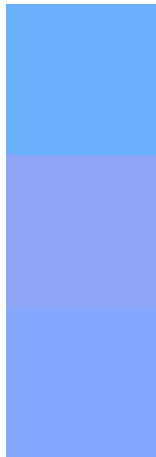


This preview shows how white text looks on a background with the CIELCh color 70, 45.718, 271.226.

# 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

70, 45.718, 271.226

### Protanopia

70, 44.597, 285.845

### Deuteranopia

70, 47.714, 282.009



**Tritanopia**  
70, 30.069, 213.312



# Trichromacy



**Original Color**  
70, 45.718, 271.226

**Protanomaly**  
70, 44.653, 279.888

**Deuteranomaly**  
70, 47.128, 278.293

**Tritanomaly**  
70, 31.849, 240.549

# Monochromacy



**Original Color**  
70, 45.718, 271.226

**Achromatopsia**  
67, 0.008, 296.813

**Achromatomaly**  
68, 17.798, 263.589

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 70, 45.718, 271.226 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(106, 175, 254)` looks like.

```
.text, #text, p{  
    color:rgb(106, 175, 254)  
}
```

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(106, 175, 254) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(106, 175, 254) }
```

## Border

The CSS property to change the border of an element to CIELCh 70, 45.718, 271.226 is called "border". The border property can be set on classes, ids or directly on the HTML element.

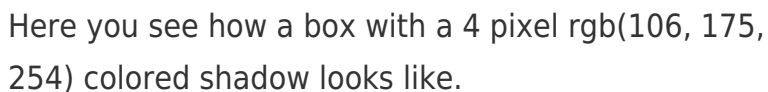
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(106, 175, 254) }
```

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

```
.border{ border-color:rgb(106, 175, 254) }
```

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



Here you see how a box with a 4 pixel `rgb(106, 175, 254)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(106, 175, 254); -webkit-box-  
shadow:4px 4px 4px 4px rgb(106, 175, 254);  
box-shadow:4px 4px 4px 4px rgb(106, 175,  
254) }
```

# Background

The CSS property to change the background color of an element to CIELCh 70, 45.718, 271.226 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(106, 175, 254) }
```

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

```
.background{ background-color: rgb(106,  
175, 254) }
```

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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