

# Converting Colors

CIELCh(70, 51.594, 294.990)

Have a look what the booklet for  
CIELCh(70, 51.594, 294.990)  
contains.

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# **Color**

**CIELCh(70, 50.946, 294.996)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A2A2FF
RGB	162, 162, 255
RGB Percent	64%, 64%, 100%
CMY	0.3646, 0.3646, 0.0000
CMYK	0.36, 0.36, 0.00, 0.00
HSL	240°, 100%, 82%
HSV	240°, 36%, 100%
XYZ	45.8784, 40.7494, 100.0679
YIQ	172.6020, -29.8530, 28.9230

# Conversions

## Conversions Part 2

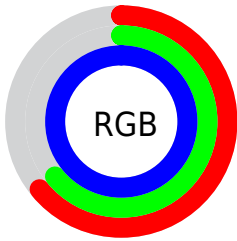
Format	Color
<a href="#">RYB</a>	162, 162, 255
Decimal	10658559
CIELab	70.00, 21.53, -46.17
CIELCh	70, 50.946, 294.996
Yxy	40.7494, 0.2457, 0.2183
Android (android.graphics.Color)	4288848639 (0xFFA2A2FF)
YUV	172.6020, 40.6222, -9.2980
Hunter-Lab	63.8353, 16.5762, -48.2581

# Details

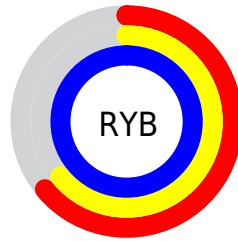
The CIELCh color `70, 50.946, 294.996` is a light color, and the websafe version is hex `9999FF`. A complement of this color would be `98, 46.392, 106.632`, and the grayscale version is `70, 0.009, 296.813`.

A 20% lighter version of the original color is `88, 19.903, 293.730`, and `50, 50.758, 294.698` is the 20% darker color. If you saturate the color by 10%, you get `62, 66.320, 296.868`, and if you desaturate by 10%, it is `78, 36.175, 293.378`.

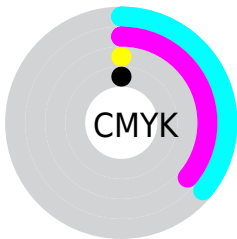
# Distribution



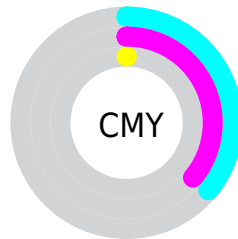
- Red (64%)
- Green (64%)
- Blue (100%)



- Red (64%)
- Yellow (64%)
- Blue (100%)



- Cyan (36%)
- Magenta (36%)
- Yellow (0%)
- Black (0%)




- Cyan (36%)
- Magenta (36%)
- Yellow (0%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 70, 50.946, 294.996 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, 50.946, 294.996 by changing the saturation by 10% instead.





 70, 50.946,  
294.996


 70, 50.946,  
294.996


 100, 50.946,  
294.996


 60, 50.946,  
294.996


 90, 50.946,  
294.996

 50, 50.946,  
294.996

 40, 50.946,  
294.996

 30, 50.946,  
294.996

 20, 50.946,  
294.996

 10, 50.946,  
294.996

 0, 50.946, 294.996

70, 50.946,  
294.996

70, 50.946,  
294.996

62, 66.320,  
296.868

78, 36.175,  
293.378

54, 82.211,  
298.973

86, 22.036,  
292.003

47, 98.188,  
301.211

95, 8.482, 290.843

40, 113.201,  
303.364

100, 0.012,  
296.813

35, 125.308,  
305.093

33, 132.291,  
306.075

32, 133.816,  
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.



70, 50.946, 294.996



98, 46.392, 106.632

# Rectangle

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



70, 50.946, 294.996



70, 50.946, 344.996



70, 50.946, 114.996



70, 50.946, 164.996

# Sweetspot

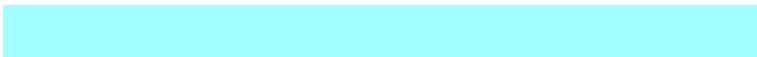
The Sweet Spot groups the original color and five complimentary colors.



70, 50.936, 294.995



91, 14.561, 291.344



94, 28.870, 197.639



47, 9.810, 291.502



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, 50.936, 294.995



64, 62.475, 296.383



74, 52.630, 310.900



49, 7.504, 291.174



23, 107.781, 306.287



3, 44.127, 301.759





# Inverse Universe

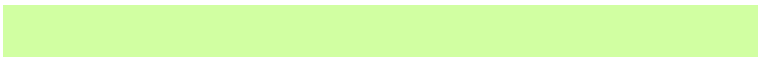
The Inverse Universe completely reimagines the original color for something new.



79, 57.930, 326.417



75, 69.191, 326.788



95, 49.932, 127.342



50, 9.057, 324.947



45, 93.082, 328.233

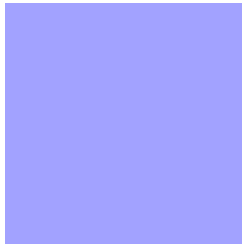


12, 42.822, 328.233



# Previews

## White Background



This preview shows how the CIELCh color 70, 50.946, 294.996 looks on a white background.

## Color Contrast Check

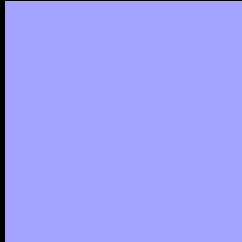
Large Text (above 18pt) WCAG AA × Fail

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, 50.946, 294.996 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

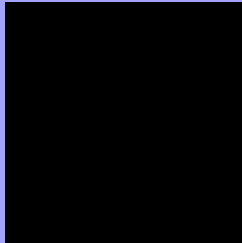
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 70, 50.946, 294.996

## Background



This preview shows how black text looks on a background with the CIELCh color 70, 50.946, 294.996.



This preview shows how white text looks on a background with the CIELCh color 70, 50.946, 294.996.

# 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, 50.946, 294.996

### Protanopia

70, 47.866, 285.558

### Deuteranopia

70, 45.975, 282.185



**Tritanopia**  
70, 12.184, 238.007



# Trichromacy



**Original Color**  
70, 50.946, 294.996

**Protanomaly**  
70, 48.760, 289.074

**Deuteranomaly**  
70, 47.763, 287.166

**Tritanomaly**  
70, 24.104, 278.344

# Monochromacy



**Original Color**  
70, 50.946, 294.996

**Achromatopsia**  
71, 0.009, 296.813

**Achromatomaly**  
70, 18.632, 292.010

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 70, 50.946, 294.996 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(162, 162, 255)` looks like.

```
.text, #text, p{  
    color:rgb(162, 162, 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(162, 162, 255) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(162, 162, 255) }
```

## Border

The CSS property to change the border of an element to CIELCh 70, 50.946, 294.996 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(162, 162, 255) }
```

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

```
.border{ border-color:rgb(162, 162, 255) }
```

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

Here you see how a box with a 4 pixel rgb(162, 162, 255) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(162, 162, 255); -webkit-box-  
shadow:4px 4px 4px 4px rgb(162, 162, 255);  
box-shadow:4px 4px 4px 4px rgb(162, 162,  
255) }
```

# Background

The CSS property to change the background color of an element to CIELCh 70, 50.946, 294.996 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(162, 162, 255) }
```

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

```
.background{ background-color: rgb(162,  
162, 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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