

# Converting Colors

CIELCh(72, 35.728, 268.462)

Have a look what the booklet for  
CIELCh(72, 35.728, 268.462)  
contains.

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# Color

**CIELCh(72, 35.703, 268.412)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	80B4F1
RGB	128, 180, 241
RGB Percent	50%, 71%, 95%
CMY	0.4975, 0.2936, 0.0543
CMYK	0.47, 0.25, 0.00, 0.05
HSL	212°, 80%, 72%
HSV	212°, 47%, 95%
XYZ	41.1727, 43.6590, 89.5926
YIQ	171.4060, -50.5730, 7.9470

# Conversions

## Conversions Part 2

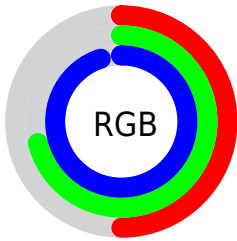
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	128, 164, 241
Decimal	8434929
CIE Lab	72.00, -0.99, -35.69
CIE LCh	72, 35.703, 268.412
Yxy	43.6590, 0.2360, 0.2503
Android (android.graphics.Color)	4286625009 (0xFF80B4F1)
YUV	171.4060, 34.3098, -38.0671
Hunter-Lab	66.0750, -4.4041, -34.1402

# Details

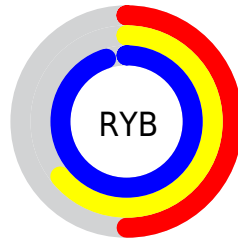
The CIELCh color **72, 35.703, 268.412** is a light color, and the websafe version is hex **99CCFF**. A complement of this color would be **80, 39.519, 73.444**, and the grayscale version is **70, 0.009, 296.813**.

A 20% lighter version of the original color is **91, 18.816, 230.317**, and **52, 36.092, 269.007** is the 20% darker color. If you saturate the color by 10%, you get **67, 43.171, 271.344**, and if you desaturate by 10%, it is **77, 28.181, 265.919**.

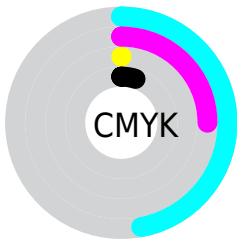
# Distribution



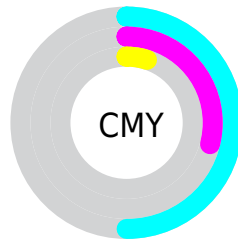
- Red (50%)
- Green (71%)
- Blue (95%)



- Red (50%)
- Yellow (64%)
- Blue (95%)



- Cyan (47%)
- Magenta (25%)
- Yellow (0%)
- Black (5%)



- Cyan (50%)
- Magenta (29%)
- Yellow (5%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 72, 35.703, 268.412 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 72, 35.703, 268.412 by changing the saturation by 10% instead.



■ 72, 35.703,  
268.412

■ 72, 35.703,  
268.412

■ 100, 35.703,  
268.412

■ 62, 35.703,  
268.412

■ 92, 35.703,  
268.412

■ 52, 35.703,  
268.412

■ 42, 35.703,  
268.412

■ 32, 35.703,  
268.412

■ 22, 35.703,  
268.412

■ 12, 35.703,  
268.412

■ 2, 35.703, 268.412

0, 35.703, 268.412

72, 35.703,  
268.412

72, 35.703,  
268.412

67, 43.171,  
271.344

77, 28.181,  
265.919

63, 50.626,  
274.744

82, 20.597,  
263.816

58, 58.138,  
278.597

87, 12.958,  
262.047

54, 65.797,  
282.809

92, 5.283, 260.583

50, 73.675,  
287.191

97, 2.407, 79.068

100, 7.010,  
109.642

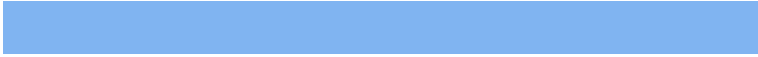
49, 76.209,  
288.508



# Harmonies

# Complementary

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



72, 35.703, 268.412



80, 39.519, 73.444

# Rectangle

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



72, 35.703, 268.412



72, 35.703, 318.412



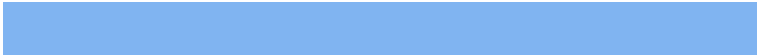
72, 35.703, 88.412



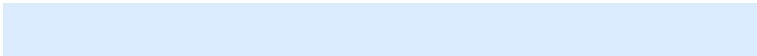
72, 35.703, 138.412

# Sweetspot

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



72, 35.702, 268.412



93, 11.265, 261.603



88, 46.854, 160.525



48, 7.774, 261.942



0, 0.000, 0.000



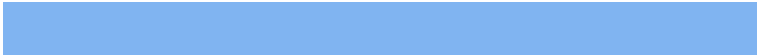
53, 0.007, 296.813



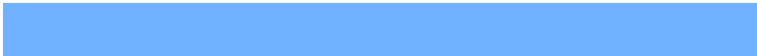


# Same Dimension

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



72, 35.702, 268.412



71, 44.498, 271.126



59, 63.942, 297.791



48, 4.352, 260.934



38, 61.015, 287.720



9, 22.934, 280.379



# Inverse Universe

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



68, 49.790, 351.098



67, 61.335, 352.689



93, 56.259, 107.244



47, 5.909, 346.636



39, 65.971, 5.806

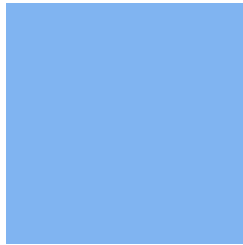


8, 29.125, 358.687



# Previews

## White Background



This preview shows how the CIELCh color 72, 35.703, 268.412 looks on a white background.

## Color Contrast Check

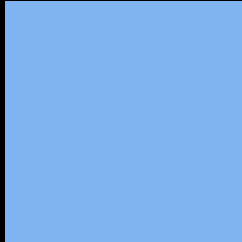
Large Text (above 18pt) WCAG AA × Fail

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 72, 35.703, 268.412 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

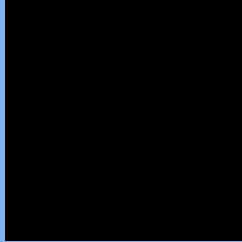
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

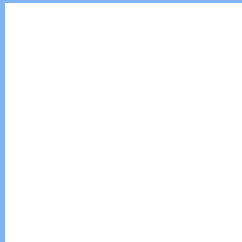
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 72, 35.703, 268.412**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 72, 35.703, 268.412.



This preview shows how white text looks on a background with the CIELCh color 72, 35.703, 268.412.

# 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

72, 35.703, 268.412

### Protanopia

72, 33.963, 284.946

### Deuteranopia

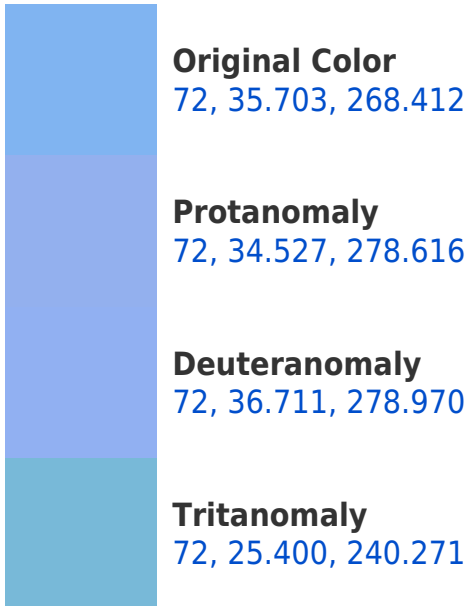
72, 37.828, 284.511



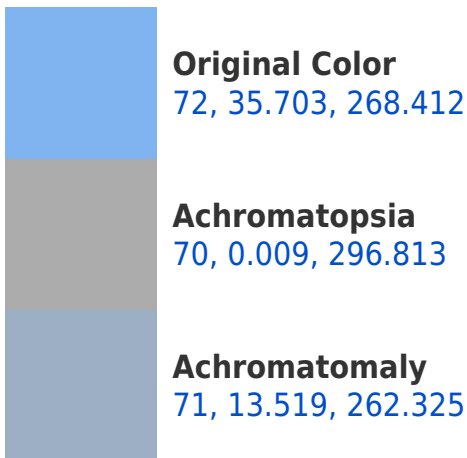


**Tritanopia**  
72, 23.443, 218.409

# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 72, 35.703, 268.412 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(128, 180, 241)` looks like.

```
.text, #text, p{  
    color:rgb(128, 180, 241)  
}
```

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(128, 180, 241) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(128, 180, 241) }
```

## Border

The CSS property to change the border of an element to CIELCh 72, 35.703, 268.412 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(128, 180, 241) }
```

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

```
.border{ border-color:rgb(128, 180, 241) }
```

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

Here you see how a box with a 4 pixel rgb(128, 180, 241) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(128, 180, 241); -webkit-box-  
shadow:4px 4px 4px 4px rgb(128, 180, 241);  
box-shadow:4px 4px 4px 4px rgb(128, 180,  
241) }
```

# Background

The CSS property to change the background color of an element to CIELCh 72, 35.703, 268.412 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(128, 180, 241) }
```

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

```
.background{ background-color: rgb(128,  
180, 241) }
```

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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