

# Converting Colors

CIELCh(72, 31.757, 227.692)

Have a look what the booklet for  
CIELCh(72, 31.757, 227.692)  
contains.

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# **Color**

**CIELCh(72, 31.735, 227.744)**

# Conversions

## Conversions Part 1

Format	Color
Hex	56BDDA
RGB	86, 189, 218
RGB Percent	34%, 74%, 85%
CMY	0.6608, 0.2572, 0.1434
CMYK	0.60, 0.13, 0.00, 0.14
HSL	193°, 64%, 60%
HSV	193°, 60%, 86%
XYZ	34.8794, 43.6590, 73.2094
YIQ	161.5090, -70.6970, -12.8170

# Conversions

## Conversions Part 2

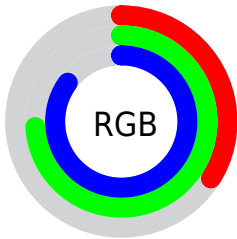
<b>Format</b>	<b>Color</b>
<b>RYB</b>	86, 144, 218
Decimal	5684698
CIELab	72.00, -21.34, -23.49
CIELCh	72, 31.735, 227.744
Yxy	43.6590, 0.2299, 0.2877
Android (android.graphics.Color)	4283874778 (0xFF56BDDA)
YUV	161.5090, 27.8501, -66.2214
Hunter-Lab	66.0750, -21.4052, -19.4394

# Details

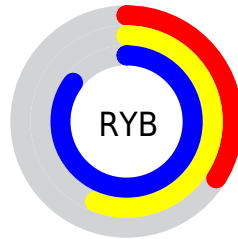
The CIELCh color **72, 31.735, 227.744** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light muted azure. A complement of this color would be **60, 50.731, 42.107**, and the grayscale version is **67, 0.008, 296.813**.

A 20% lighter version of the original color is **91, 29.767, 207.737**, and **52, 31.161, 229.045** is the 20% darker color. If you saturate the color by 10%, you get **70, 34.736, 230.032**, and if you desaturate by 10%, it is **74, 27.974, 225.959**.

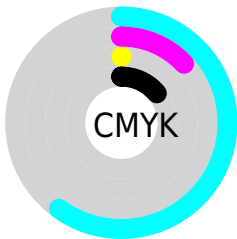
# Distribution



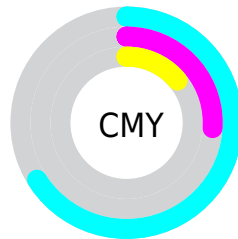
- Red (34%)
- Green (74%)
- Blue (85%)



- Red (34%)
- Yellow (56%)
- Blue (85%)



- Cyan (60%)
- Magenta (13%)
- Yellow (0%)
- Black (14%)




- Cyan (66%)
- Magenta (26%)
- Yellow (14%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 72, 31.735, 227.744 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, 31.735, 227.744 by changing the saturation by 10% instead.





 72, 31.735,  
227.744


 72, 31.735,  
227.744


 100, 31.735,  
227.744


 62, 31.735,  
227.744


 92, 31.735,  
227.744

 52, 31.735,  
227.744

 42, 31.735,  
227.744

 32, 31.735,  
227.744

 22, 31.735,  
227.744

 12, 31.735,  
227.744

 2, 31.735, 227.744

0, 31.735, 227.744

72, 31.735,  
227.744

72, 31.735,  
227.744

70, 34.736,  
230.032

74, 27.974,  
225.959

68, 36.984,  
232.914

76, 23.504,  
224.593

66, 38.558,  
236.456

79, 18.404,  
223.565

65, 39.648,  
240.393

82, 12.768,  
222.811

84, 6.693, 222.294

87, 0.268, 223.957

90, 6.427, 41.460

■ 92, 11.158, 45.611

■ 94, 11.031, 61.048

# Harmonies

# Complementary

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



72, 31.735, 227.744



60, 50.731, 42.107

# Rectangle

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



72, 31.735, 227.744



72, 31.735, 277.744



72, 31.735, 47.744



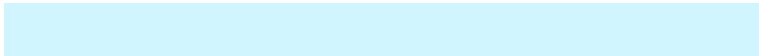
72, 31.735, 97.744

# Sweetspot

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



72, 31.734, 227.743



94, 12.857, 222.674



78, 70.340, 145.172



49, 8.856, 222.855



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, 31.734, 227.743



80, 39.678, 230.619



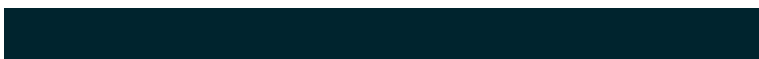
53, 54.752, 286.654



45, 3.673, 222.258



52, 33.288, 239.655



12, 13.124, 231.454



# Inverse Universe

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



57, 69.346, 335.500



62, 88.499, 336.554



75, 52.300, 87.011



43, 6.866, 331.800



39, 73.093, 339.327

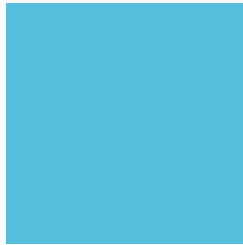


6, 29.604, 337.010



# Previews

## White Background



This preview shows how the CIE LCh color 72, 31.735, 227.744 looks on a white background.

## Color Contrast Check

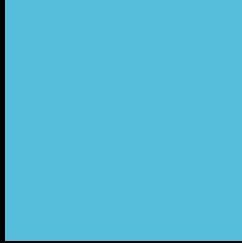
Large Text (above 18pt) WCAG AA × Fail

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, 31.735, 227.744 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

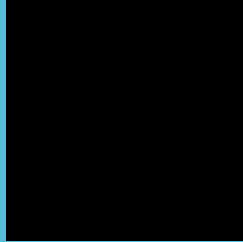
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 72, 31.735, 227.744

## Background



This preview shows how black text looks on a background with the CIELCh color 72, 31.735, 227.744.

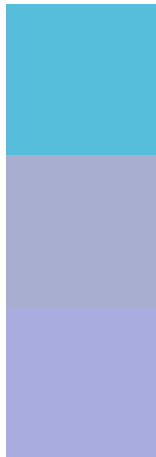


This preview shows how white text looks on a background with the CIELCh color 72, 31.735, 227.744.

# 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, 31.735, 227.744

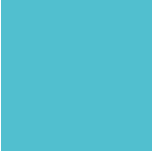
### Protanopia

72, 18.607, 285.645

### Deuteranopia

72, 27.283, 290.031





**Tritanopia**  
72, 31.682, 213.369

# Trichromacy



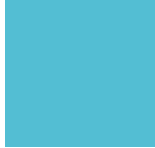
**Original Color**  
72, 31.735, 227.744



**Protanomaly**  
71, 21.585, 253.148



**Deuteranomaly**  
71, 26.083, 263.746



**Tritanomaly**  
72, 31.427, 218.939

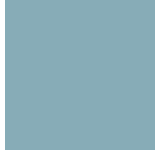
# Monochromacy



**Original Color**  
72, 31.735, 227.744



**Achromatopsia**  
67, 0.008, 296.813



**Achromatomaly**  
68, 13.923, 224.431

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 72, 31.735, 227.744 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(86, 189, 218)` looks like.

```
.text, #text, p{  
    color:rgb(86, 189, 218)  
}
```

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(86, 189, 218) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(86, 189, 218) }
```

## Border

The CSS property to change the border of an element to CIELCh 72, 31.735, 227.744 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(86, 189, 218) }
```

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

```
.border{ border-color:rgb(86, 189, 218) }
```

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

Here you see how a box with a 4 pixel `rgb(86, 189, 218)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(86, 189, 218); -webkit-box-  
shadow:4px 4px 4px 4px rgb(86, 189, 218);  
box-shadow:4px 4px 4px 4px rgb(86, 189,  
218) }
```

# Background

The CSS property to change the background color of an element to CIELCh 72, 31.735, 227.744 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(86, 189, 218) }
```

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

```
.background{ background-color: rgb(86, 189,  
218) }
```

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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