

# Converting Colors

CIELCh(72, 31.636, 240.522)

Have a look what the booklet for  
CIELCh(72, 31.636, 240.522)  
contains.

<b>CIELCh(72, 31.596, 240.669)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	21
<b><i>Color Blindness Simulation</i></b> .....	24
<b><i>CSS Examples</i></b> .....	27

# **Color**

**CIELCh(72, 31.596, 240.669)**

# Conversions

## Conversions Part 1

Format	Color
Hex	63BBE2
RGB	99, 187, 226
RGB Percent	39%, 73%, 89%
CMY	0.6119, 0.2668, 0.1139
CMYK	0.56, 0.17, 0.00, 0.11
HSL	198°, 69%, 64%
HSV	198°, 56%, 89%
XYZ	36.6213, 43.6590, 78.4134
YIQ	165.1340, -64.9670, -6.5270

# Conversions

## Conversions Part 2

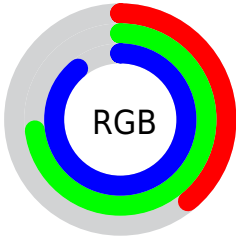
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	99, 151, 226
Decimal	6536162
CIE Lab	72.00, -15.48, -27.55
CIE LCh	72, 31.596, 240.669
Yxy	43.6590, 0.2308, 0.2751
Android (android.graphics.Color)	4284726242 (0xFF63BBE2)
YUV	165.1340, 30.0069, -57.9995
Hunter-Lab	66.0750, -16.6995, -24.1090

# Details

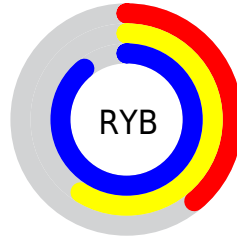
The CIELCh color **72, 31.596, 240.669** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **66, 45.916, 49.584**, and the grayscale version is **68, 0.008, 296.813**.

A 20% lighter version of the original color is **91, 26.627, 211.462**, and **52, 31.693, 240.821** is the 20% darker color. If you saturate the color by 10%, you get **69, 35.567, 243.571**, and if you desaturate by 10%, it is **75, 27.043, 238.335**.

# Distribution



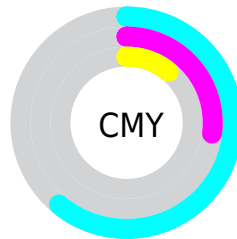
- Red (39%)
- Green (73%)
- Blue (89%)



- Red (39%)
- Yellow (59%)
- Blue (89%)



- Cyan (56%)
- Magenta (17%)
- Yellow (0%)
- Black (11%)




- Cyan (61%)
- Magenta (27%)
- Yellow (11%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 72, 31.596, 240.669 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, 31.596, 240.669 by changing the saturation by 10% instead.




 72, 31.596,  
240.669

 72, 31.596,  
240.669

 100, 31.596,  
240.669


 62, 31.596,  
240.669

 92, 31.596,  
240.669

 52, 31.596,  
240.669

 42, 31.596,  
240.669

 32, 31.596,  
240.669

 22, 31.596,  
240.669

 12, 31.596,  
240.669

 2, 31.596, 240.669

0, 31.596, 240.669

72, 31.596,  
240.669

72, 31.596,  
240.669

69, 35.567,  
243.571

75, 27.043,  
238.335

67, 38.973,  
247.125

78, 21.945,  
236.479

64, 41.897,  
251.369

81, 16.364,  
235.014

62, 44.505,  
256.254

84, 10.377,  
233.870

61, 45.499,  
258.153

88, 4.059, 233.035

91, 2.518, 51.957

95, 8.632, 54.271

■ 96, 9.574, 80.946

■ 98, 12.074, 99.520

# Harmonies

# Complementary

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



72, 31.596, 240.669



66, 45.916, 49.584

# Rectangle

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



72, 31.596, 240.669



72, 31.596, 290.669



72, 31.596, 60.669



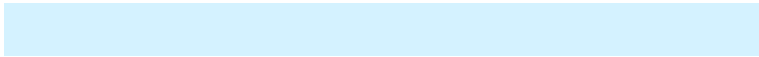
72, 31.596, 110.669

# Sweetspot

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



72, 31.595, 240.668



94, 11.983, 233.962



81, 63.659, 148.671



49, 7.976, 234.175



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, 31.595, 240.668



77, 39.468, 243.976



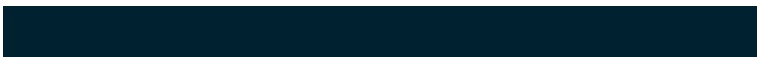
55, 58.305, 290.370



45, 3.670, 233.263



48, 37.428, 257.225



12, 14.329, 247.525



# Inverse Universe

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



60, 63.528, 339.161



63, 79.965, 340.415



81, 53.348, 93.637



44, 6.575, 335.190



39, 69.619, 345.328

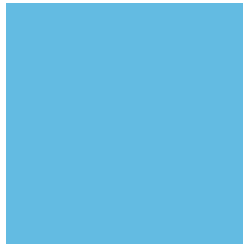


7, 29.250, 341.817



# Previews

## White Background



This preview shows how the CIELCh color 72, 31.596, 240.669 looks on a white background.

## Color Contrast Check

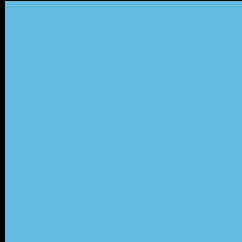
Large Text (above 18pt) WCAG AA × Fail

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, 31.596, 240.669 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, 31.596, 240.669**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 72, 31.596, 240.669.

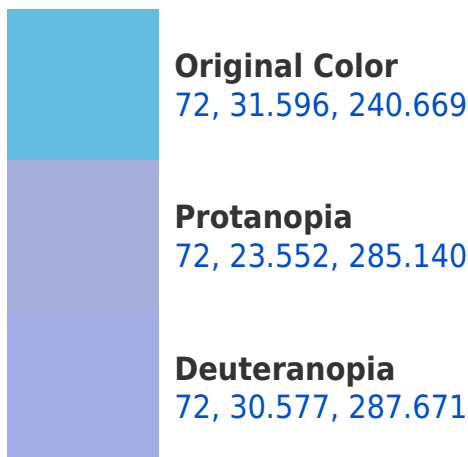


This preview shows how white text looks on a background with the CIELCh color 72, 31.596, 240.669.

# 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







**Tritanopia**  
72, 29.652, 214.649

# Trichromacy



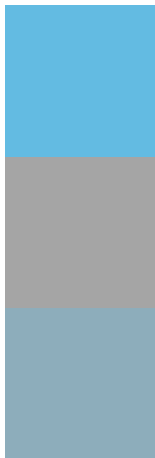
**Original Color**  
72, 31.596, 240.669

**Protanomaly**  
72, 24.896, 263.469

**Deuteranomaly**  
72, 29.161, 269.105

**Tritanomaly**  
72, 29.626, 224.036

# Monochromacy



**Original Color**  
72, 31.596, 240.669

**Achromatopsia**  
68, 0.008, 296.813

**Achromatomaly**  
69, 13.236, 234.406

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 72, 31.596, 240.669 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(99, 187, 226)` looks like.

```
.text, #text, p{  
    color:rgb(99, 187, 226)  
}
```

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(99, 187, 226) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(99, 187, 226) }
```

## Border

The CSS property to change the border of an element to CIELCh 72, 31.596, 240.669 is called "border". The border property can be set on classes, ids or directly on the HTML element.

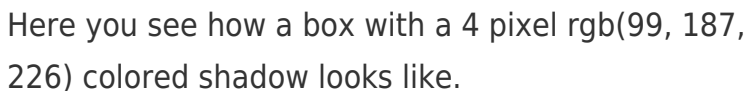
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(99, 187, 226) }
```

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

```
.border{ border-color:rgb(99, 187, 226) }
```

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



Here you see how a box with a 4 pixel `rgb(99, 187, 226)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(99, 187, 226); -webkit-box-shadow:4px 4px 4px 4px rgb(99, 187, 226); box-shadow:4px 4px 4px 4px rgb(99, 187, 226) }
```

# Background

The CSS property to change the background color of an element to CIELCh 72, 31.596, 240.669 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(99, 187, 226) }
```

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

```
.background{ background-color: rgb(99, 187,  
226) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor