

# Converting Colors

CIELCh(70, 28.656, 232.047)

Have a look what the booklet for  
CIELCh(70, 28.656, 232.047)  
contains.

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# **Color**

**CIELCh(70, 28.601, 231.894)**

# Conversions

## Conversions Part 1

Format	Color
Hex	61B6D3
RGB	97, 182, 211
RGB Percent	38%, 71%, 83%
CMY	0.6192, 0.2859, 0.1722
CMYK	0.54, 0.14, 0.00, 0.17
HSL	195°, 56%, 60%
HSV	195°, 54%, 83%
XYZ	33.4579, 40.7494, 67.7938
YIQ	159.8910, -59.9690, -9.0010

# Conversions

## Conversions Part 2

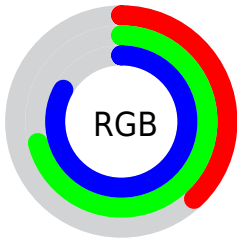
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	97, 146, 211
Decimal	6403795
CIE Lab	70.00, -17.65, -22.51
CIE LCh	70, 28.601, 231.894
Yxy	40.7494, 0.2356, 0.2870
Android (android.graphics.Color)	4284593875 (0xFF61B6D3)
YUV	159.8910, 25.1967, -55.1554
Hunter-Lab	63.8353, -18.1549, -18.2820

# Details

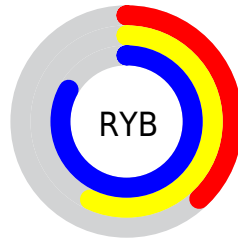
The CIELCh color **70, 28.601, 231.894** is a light color, and the websafe version is hex **66CCFF**. A complement of this color would be **61, 42.292, 44.790**, and the grayscale version is **66, 0.008, 296.813**.

A 20% lighter version of the original color is **90, 26.494, 217.575**, and **50, 28.534, 231.400** is the 20% darker color. If you saturate the color by 10%, you get **68, 32.152, 234.189**, and if you desaturate by 10%, it is **72, 24.400, 230.091**.

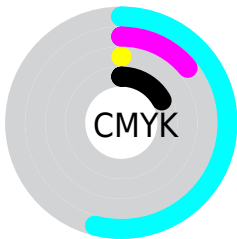
# Distribution



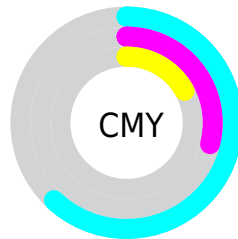
- Red (38%)
- Green (71%)
- Blue (83%)



- Red (38%)
- Yellow (57%)
- Blue (83%)



- Cyan (54%)
- Magenta (14%)
- Yellow (0%)
- Black (17%)




- Cyan (62%)
- Magenta (29%)
- Yellow (17%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 70, 28.601, 231.894 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, 28.601, 231.894 by changing the saturation by 10% instead.




 70, 28.601,  
231.894


 70, 28.601,  
231.894


 100, 28.601,  
231.894


 60, 28.601,  
231.894


 90, 28.601,  
231.894

 50, 28.601,  
231.894

 40, 28.601,  
231.894

 30, 28.601,  
231.894

 20, 28.601,  
231.894

 10, 28.601,  
231.894

 0, 28.601, 231.894

70, 28.601,  
231.894

70, 28.601,  
231.894

68, 32.152,  
234.189

72, 24.400,  
230.091

66, 35.035,  
237.073

75, 19.609,  
228.696

64, 37.290,  
240.623

78, 14.307,  
227.629

62, 39.037,  
244.867

81, 8.580, 226.834

61, 39.978,  
247.620

83, 2.510, 226.369

86, 3.829, 45.547

89, 10.371, 45.298

92, 13.344, 52.527

93, 13.560, 66.720



# Harmonies

# Complementary

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



70, 28.601, 231.894



61, 42.292, 44.790

# Rectangle

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



70, 28.601, 231.894



70, 28.601, 281.894



70, 28.601, 51.894



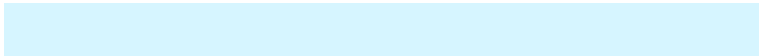
70, 28.601, 101.894

# Sweetspot

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



70, 28.600, 231.893



95, 11.367, 226.985



76, 60.436, 147.211



50, 7.632, 227.141



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, 28.600, 231.893



80, 37.698, 234.637



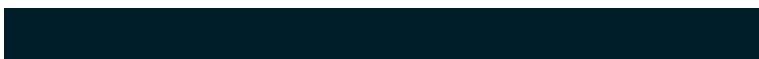
54, 49.390, 286.920



43, 3.490, 226.557



49, 33.616, 246.798



10, 12.331, 236.374



# Inverse Universe

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



58, 60.176, 336.472



64, 80.986, 337.542



75, 46.763, 90.440



41, 6.441, 333.087



38, 69.794, 341.539

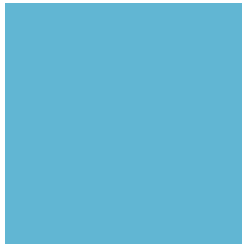


5, 25.562, 338.398



# Previews

## White Background



This preview shows how the CIE LCh color 70, 28.601, 231.894 looks on a white background.

## Color Contrast Check

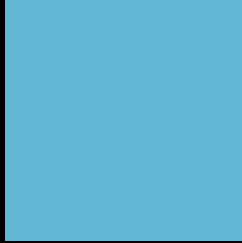
Large Text (above 18pt) WCAG AA × Fail

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, 28.601, 231.894 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, 28.601, 231.894

## Background



This preview shows how black text looks on a background with the CIELCh color 70, 28.601, 231.894.

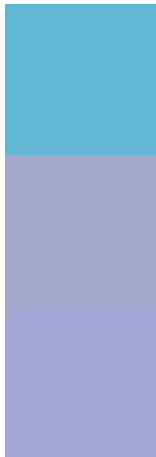


This preview shows how white text looks on a background with the CIELCh color 70, 28.601, 231.894.

# 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, 28.601, 231.894

### Protanopia

70, 18.163, 285.450

### Deuteranopia

70, 25.784, 290.490





**Tritanopia**  
70, 27.909, 214.744

# Trichromacy



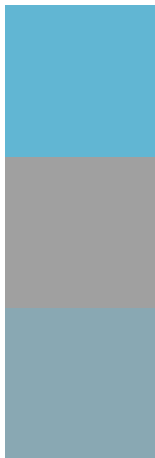
**Original Color**  
70, 28.601, 231.894

**Protanomaly**  
70, 20.098, 257.098

**Deuteranomaly**  
69, 24.317, 267.467

**Tritanomaly**  
70, 27.907, 220.925

# Monochromacy



**Original Color**  
70, 28.601, 231.894

**Achromatopsia**  
66, 0.008, 296.813

**Achromatomaly**  
67, 12.245, 228.557

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 70, 28.601, 231.894 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(97, 182, 211)` looks like.

```
.text, #text, p{  
    color:rgb(97, 182, 211)  
}
```

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(97, 182, 211) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(97, 182, 211) }
```

## Border

The CSS property to change the border of an element to CIELCh 70, 28.601, 231.894 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(97, 182, 211) }
```

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

```
.border{ border-color:rgb(97, 182, 211) }
```

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

Here you see how a box with a 4 pixel `rgb(97, 182, 211)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(97, 182, 211); -webkit-box-  
shadow:4px 4px 4px 4px rgb(97, 182, 211);  
box-shadow:4px 4px 4px 4px rgb(97, 182,  
211) }
```

# Background

The CSS property to change the background color of an element to CIELCh 70, 28.601, 231.894 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(97, 182, 211) }
```

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

```
.background{ background-color: rgb(97, 182,  
211) }
```

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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