

# Converting Colors

CIELCh(78, 36.011, 231.011)

Have a look what the booklet for  
CIELCh(78, 36.011, 231.011)  
contains.

<b>CIELCh(78, 36.049, 231.299)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	12
<i><b>Previews</b></i> .....	21
<i><b>Color Blindness Simulation</b></i> .....	24
<i><b>CSS Examples</b></i> .....	27

**Color**

**CIELCh(78, 36.049, 231.299)**

# Conversions

## Conversions Part 1

Format	Color
Hex	57CFF4
RGB	87, 207, 244
RGB Percent	34%, 81%, 96%
CMY	0.6586, 0.1880, 0.0429
CMYK	0.64, 0.15, 0.00, 0.04
HSL	194°, 88%, 65%
HSV	194°, 64%, 96%
XYZ	42.5965, 53.2120, 93.6521
YIQ	175.3380, -83.3970, -13.9330

# Conversions

## Conversions Part 2

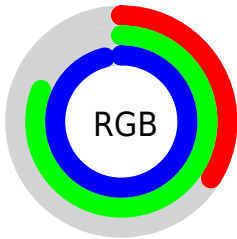
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	87, 155, 244
Decimal	5754868
CIE Lab	78.00, -22.54, -28.13
CIE LCh	78, 36.049, 231.299
Yxy	53.2120, 0.2248, 0.2809
Android (android.graphics.Color)	4283944948 (0xFF57CFF4)
YUV	175.3380, 33.8504, -77.4724
Hunter-Lab	72.9466, -23.4229, -25.0566

# Details

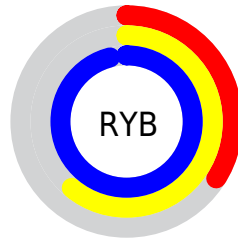
The CIELCh color **78, 36.049, 231.299** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light muted cyan. A complement of this color would be **65, 59.512, 43.596**, and the grayscale version is **72, 0.009, 296.813**.

A 20% lighter version of the original color is **94, 31.646, 197.470**, and **58, 34.813, 233.758** is the 20% darker color. If you saturate the color by 10%, you get **76, 39.075, 234.049**, and if you desaturate by 10%, it is **80, 32.217, 229.127**.

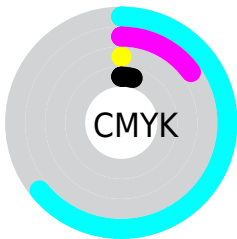
# Distribution



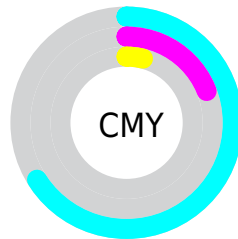
- Red (34%)
- Green (81%)
- Blue (96%)



- Red (34%)
- Yellow (61%)
- Blue (96%)



- Cyan (64%)
- Magenta (15%)
- Yellow (0%)
- Black (4%)




- Cyan (66%)
- Magenta (19%)
- Yellow (4%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 78, 36.049, 231.299 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 78, 36.049, 231.299 by changing the saturation by 10% instead.





 78, 36.049,  
231.299


 78, 36.049,  
231.299


 100, 36.049,  
231.299


 68, 36.049,  
231.299


 98, 36.049,  
231.299

 58, 36.049,  
231.299

 48, 36.049,  
231.299

 38, 36.049,  
231.299

 28, 36.049,  
231.299

 18, 36.049,  
231.299

 8, 36.049, 231.299

0, 36.049, 231.299

78, 36.049,  
231.299

78, 36.049,  
231.299

76, 39.075,  
234.049

80, 32.217,  
229.127

74, 41.343,  
237.460

83, 27.607,  
227.440

72, 42.989,  
241.567

86, 22.289,  
226.150

71, 43.783,  
244.117

89, 16.359,  
225.179

92, 9.919, 224.471

95, 3.069, 224.073

98, 3.177, 50.854

99, 4.611, 101.259

100, 5.541,  
109.750

# Harmonies

# Complementary

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



78, 36.049, 231.299



65, 59.512, 43.596

# Rectangle

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



78, 36.049, 231.299



78, 36.049, 281.299



78, 36.049, 51.299



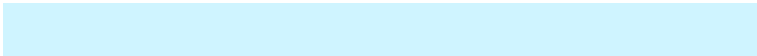
78, 36.049, 101.299

# Sweetspot

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



78, 36.048, 231.298



94, 13.456, 224.774



86, 80.113, 145.073



49, 9.182, 224.985



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



78, 36.048, 231.298



78, 41.141, 234.953



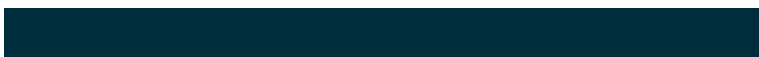
56, 65.733, 288.966



50, 3.994, 224.220



55, 35.593, 243.276



16, 15.458, 236.578



# Inverse Universe

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



62, 78.584, 336.583



61, 90.756, 337.830



83, 61.317, 87.684



48, 7.432, 332.391



42, 76.108, 340.418

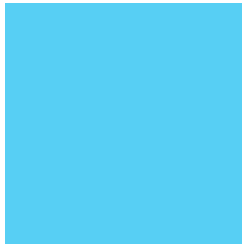


10, 34.614, 338.441



# Previews

## White Background



This preview shows how the CIE LCh color 78, 36.049, 231.299 looks on a white background.

## Color Contrast Check

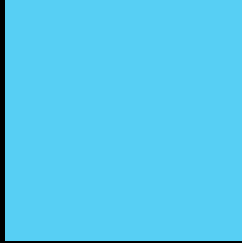
Large Text (above 18pt) WCAG AA × Fail

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 78, 36.049, 231.299 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 78, 36.049, 231.299

## Background



This preview shows how black text looks on a background with the CIELCh color 78, 36.049, 231.299.

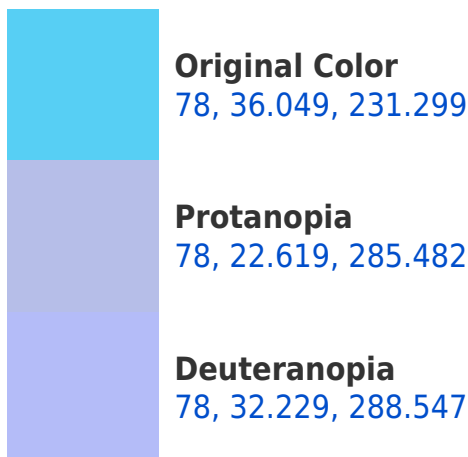


This preview shows how white text looks on a background with the CIELCh color 78, 36.049, 231.299.

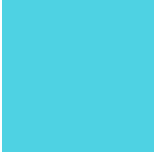
# Color Blindness Simulation

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





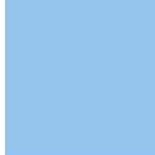


**Tritanopia**  
78, 35.866, 211.960

# Trichromacy



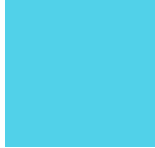
**Original Color**  
78, 36.049, 231.299



**Protanomaly**  
77, 25.709, 255.917



**Deuteranomaly**  
77, 30.897, 264.251

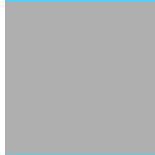


**Tritanomaly**  
78, 35.537, 218.692

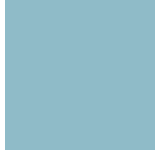
# Monochromacy



**Original Color**  
78, 36.049, 231.299



**Achromatopsia**  
71, 0.009, 296.813



**Achromatomaly**  
73, 16.135, 224.490

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 78, 36.049, 231.299 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(87, 207, 244)` looks like.

```
.text, #text, p{  
    color:rgb(87, 207, 244)  
}
```

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(87, 207, 244) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(87, 207, 244) }
```

## Border

The CSS property to change the border of an element to CIELCh 78, 36.049, 231.299 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(87, 207, 244) }
```

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

```
.border{ border-color:rgb(87, 207, 244) }
```

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

Here you see how a box with a 4 pixel rgb(87, 207, 244) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(87, 207, 244); -webkit-box-  
shadow:4px 4px 4px 4px rgb(87, 207, 244);  
box-shadow:4px 4px 4px 4px rgb(87, 207,  
244) }
```

# Background

The CSS property to change the background color of an element to CIELCh 78, 36.049, 231.299 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(87, 207, 244) }
```

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

```
.background{ background-color: rgb(87, 207,  
244) }
```

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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