

# Converting Colors

CIELCh(70, 39.780, 244.698)

Have a look what the booklet for  
CIELCh(70, 39.780, 244.698)  
contains.

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# **Color**

**CIELCh(70, 39.906, 245.059)**

# Conversions

## Conversions Part 1

Format	Color
Hex	38B7EC
RGB	56, 183, 236
RGB Percent	22%, 72%, 93%
CMY	0.7805, 0.2825, 0.0746
CMYK	0.76, 0.22, 0.00, 0.07
HSL	198°, 83%, 57%
HSV	198°, 76%, 93%
XYZ	33.6922, 40.7494, 85.4238
YIQ	151.0690, -92.7050, -10.4410

# Conversions

## Conversions Part 2

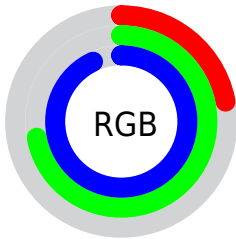
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	56, 130, 236
Decimal	3717100
CIE Lab	70.00, -16.83, -36.18
CIE LCh	70, 39.906, 245.059
Yxy	40.7494, 0.2108, 0.2549
Android (android.graphics.Color)	4281907180 (0xFF38B7EC)
YUV	151.0690, 41.8710, -83.3755
Hunter-Lab	63.8353, -17.4995, -34.6567

# Details

The CIELCh color **70, 39.906, 245.059** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light washed azure. A complement of this color would be **61, 69.076, 48.319**, and the grayscale version is **62, 0.008, 296.813**.

A 20% lighter version of the original color is **89, 32.754, 212.377**, and **51, 36.448, 251.755** is the 20% darker color. If you saturate the color by 10%, you get **68, 42.732, 249.237**, and if you desaturate by 10%, it is **73, 36.540, 241.581**.

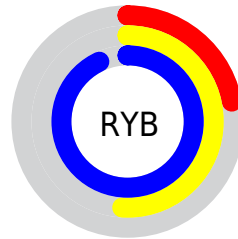
# Distribution



Red (22%)

Green (72%)

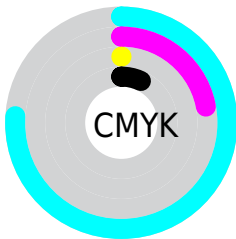
Blue (93%)



Red (22%)

Yellow (51%)

Blue (93%)

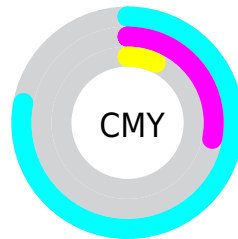


Cyan (76%)

Magenta (22%)

Yellow (0%)

Black (7%)



Cyan (78%)

Magenta (28%)


Yellow (7%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 70, 39.906, 245.059 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, 39.906, 245.059 by changing the saturation by 10% instead.





 70, 39.906,  
245.059


 70, 39.906,  
245.059


 100, 39.906,  
245.059


 60, 39.906,  
245.059


 90, 39.906,  
245.059

 50, 39.906,  
245.059

 40, 39.906,  
245.059

 30, 39.906,  
245.059

 20, 39.906,  
245.059

 10, 39.906,  
245.059

 0, 39.906, 245.059

70, 39.906,  
245.059

70, 39.906,  
245.059

68, 42.732,  
249.237

73, 36.540,  
241.581

65, 45.194,  
254.074

75, 32.552,  
238.755

65, 46.104,  
255.930

78, 27.930,  
236.496

81, 22.714,  
234.709

85, 16.976,  
233.308

88, 10.796,  
232.223

91, 4.259, 231.441

95, 2.560, 50.408



# Harmonies

# Complementary

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



70, 39.906, 245.059



61, 69.076, 48.319

# Rectangle

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



70, 39.906, 245.059



70, 39.906, 295.059



70, 39.906, 65.059



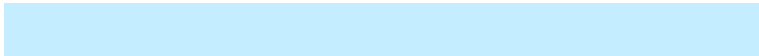
70, 39.906, 115.059

# Sweetspot

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



70, 39.905, 245.059



92, 15.962, 232.931



83, 85.921, 144.784



48, 10.936, 233.363



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, 39.905, 245.059



71, 46.939, 252.121



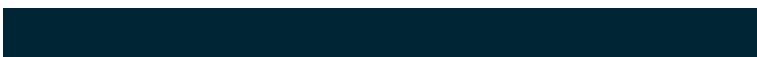
46, 82.866, 295.348



47, 3.808, 231.649



50, 37.513, 254.988



13, 15.167, 246.459



# Inverse Universe

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



56, 81.856, 340.867



57, 92.125, 343.365



81, 70.862, 89.802



46, 6.882, 334.675



40, 71.654, 344.444

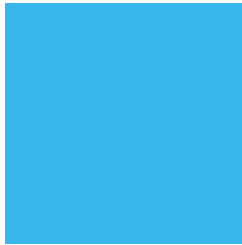


8, 31.584, 341.428



# Previews

## White Background



This preview shows how the CIELCh color 70, 39.906, 245.059 looks on a white background.

## Color Contrast Check

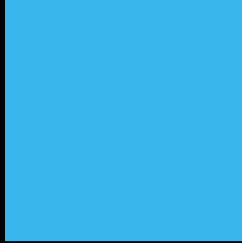
Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIE LCh color 70, 39.906, 245.059 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

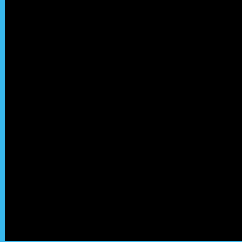
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

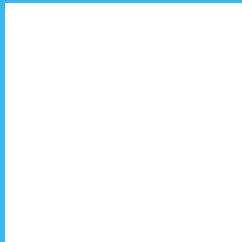
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 70, 39.906, 245.059

## Background



This preview shows how black text looks on a background with the CIELCh color 70, 39.906, 245.059.

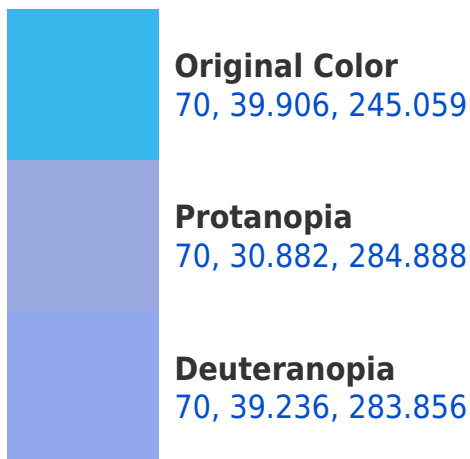


This preview shows how white text looks on a background with the CIELCh color 70, 39.906, 245.059.

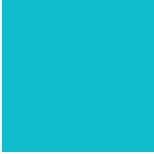
# Color Blindness Simulation

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**  
70, 38.151, 209.289

# Trichromacy



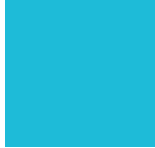
**Original Color**  
70, 39.906, 245.059



**Protanomaly**  
69, 33.379, 264.487



**Deuteranomaly**  
69, 38.472, 267.934



**Tritanomaly**  
70, 37.520, 222.406

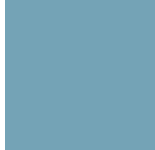
# Monochromacy



**Original Color**  
70, 39.906, 245.059



**Achromatopsia**  
62, 0.008, 296.813



**Achromatomaly**  
64, 18.408, 233.684

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 70, 39.906, 245.059 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(56, 183, 236)` looks like.

```
.text, #text, p{  
    color:rgb(56, 183, 236)  
}
```

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(56, 183, 236) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(56, 183, 236) }
```

## Border

The CSS property to change the border of an element to CIELCh 70, 39.906, 245.059 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(56, 183, 236) }
```

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

```
.border{ border-color:rgb(56, 183, 236) }
```

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

Here you see how a box with a 4 pixel `rgb(56, 183, 236)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(56, 183, 236); -webkit-box-  
shadow:4px 4px 4px 4px rgb(56, 183, 236);  
box-shadow:4px 4px 4px 4px rgb(56, 183,  
236) }
```

# Background

The CSS property to change the background color of an element to CIELCh 70, 39.906, 245.059 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(56, 183, 236) }
```

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

```
.background{ background-color: rgb(56, 183,  
236) }
```

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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