

# Converting Colors

CIELCh(70, 38.634, 237.144)

Have a look what the booklet for  
CIELCh(70, 38.634, 237.144)  
contains.

<b>CIELCh(70, 38.550, 236.652)</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(70, 38.550, 236.652)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2DB9E5
RGB	45, 185, 229
RGB Percent	18%, 73%, 90%
CMY	0.8222, 0.2759, 0.1034
CMYK	0.80, 0.19, 0.00, 0.10
HSL	194°, 78%, 54%
HSV	194°, 80%, 90%
XYZ	32.4610, 40.7494, 80.0104
YIQ	148.1560, -97.5640, -15.9960

# Conversions

## Conversions Part 2

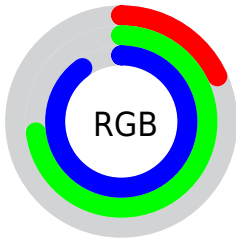
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	45, 125, 229
Decimal	2996709
CIE Lab	70.00, -21.19, -32.20
CIE LCh	70, 38.550, 236.652
Yxy	40.7494, 0.2119, 0.2660
Android (android.graphics.Color)	4281186789 (0xFF2DB9E5)
YUV	148.1560, 39.8561, -90.4678
Hunter-Lab	63.8353, -20.9423, -29.6287

# Details

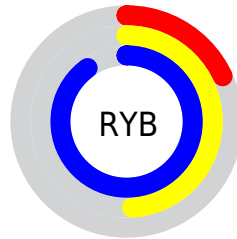
The CIELCh color **70, 38.550, 236.652** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light washed azure. A complement of this color would be **56, 73.225, 44.741**, and the grayscale version is **61, 0.008, 296.813**.

A 20% lighter version of the original color is **89, 34.568, 209.647**, and **51, 33.711, 243.287** is the 20% darker color. If you saturate the color by 10%, you get **68, 40.400, 240.494**, and if you desaturate by 10%, it is **72, 36.053, 233.499**.

# Distribution



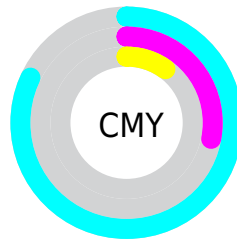
- Red (18%)
- Green (73%)
- Blue (90%)



- Red (18%)
- Yellow (49%)
- Blue (90%)



- Cyan (80%)
- Magenta (19%)
- Yellow (0%)
- Black (10%)




- Cyan (82%)
- Magenta (28%)
- Yellow (10%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 70, 38.550, 236.652 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, 38.550, 236.652 by changing the saturation by 10% instead.





 70, 38.550,  
236.652


 70, 38.550,  
236.652


 100, 38.550,  
236.652


 60, 38.550,  
236.652


 90, 38.550,  
236.652

 50, 38.550,  
236.652

 40, 38.550,  
236.652

 30, 38.550,  
236.652

 20, 38.550,  
236.652

 10, 38.550,  
236.652

 0, 38.550, 236.652

70, 38.550,  
236.652

70, 38.550,  
236.652

68, 40.400,  
240.494

72, 36.053,  
233.499

66, 41.824,  
244.842

74, 32.823,  
230.975

77, 28.845,  
228.991

79, 24.163,  
227.456

82, 18.857,  
226.285

85, 13.018,  
225.407

88, 6.742, 224.784

91, 0.120, 229.125



# Harmonies

# Complementary

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



70, 38.550, 236.652



56, 73.225, 44.741

# Rectangle

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



70, 38.550, 236.652



70, 38.550, 286.652



70, 38.550, 56.652



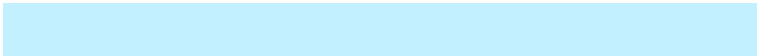
70, 38.550, 106.652

# Sweetspot

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



70, 38.549, 236.652



92, 16.720, 225.724



80, 90.087, 142.496



48, 11.353, 226.045



0, 0.000, 0.000



53, 0.007, 296.813



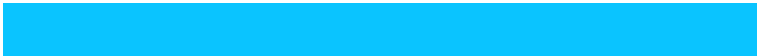


# Same Dimension

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



70, 38.549, 236.652



74, 44.886, 243.313



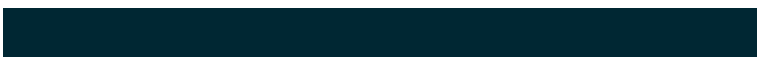
45, 79.497, 293.968



47, 3.783, 224.750



53, 34.619, 244.027



14, 14.126, 236.110



# Inverse Universe

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



54, 84.621, 338.345



58, 95.771, 340.421



76, 69.685, 85.309



45, 7.026, 332.547



40, 73.585, 340.652

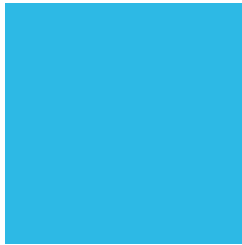


8, 31.695, 338.309



# Previews

## White Background



This preview shows how the CIE LCh color 70, 38.550, 236.652 looks on a white background.

## Color Contrast Check

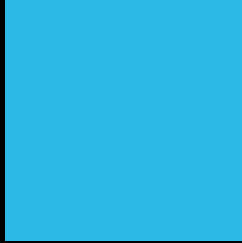
Large Text (above 18pt) WCAG AA × Fail

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, 38.550, 236.652 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

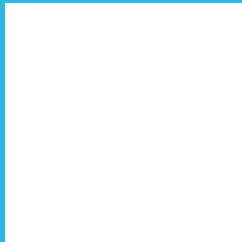
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 70, 38.550, 236.652**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 70, 38.550, 236.652.

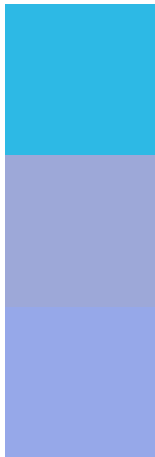


This preview shows how white text looks on a background with the CIELCh color 70, 38.550, 236.652.

# 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, 38.621, 236.562

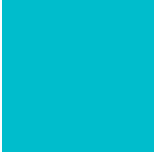
### Protanopia

70, 26.470, 284.952

### Deuteranopia

70, 35.849, 284.757





**Tritanopia**  
70, 38.601, 209.110

# Trichromacy



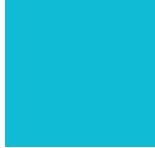
**Original Color**  
70, 38.621, 236.562



**Protanomaly**  
69, 30.200, 258.074



**Deuteranomaly**  
69, 34.983, 263.026



**Tritanomaly**  
70, 37.951, 219.263

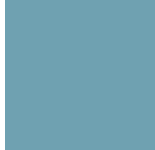
# Monochromacy



**Original Color**  
70, 38.621, 236.562



**Achromatopsia**  
61, 0.008, 296.813



**Achromatomaly**  
63, 18.467, 227.356

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 70, 38.550, 236.652 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(45, 185, 229)` looks like.

```
.text, #text, p{  
    color:rgb(45, 185, 229)  
}
```

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(45, 185, 229) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 185, 229) }
```

## Border

The CSS property to change the border of an element to CIELCh 70, 38.550, 236.652 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(45, 185, 229) }
```

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

```
.border{ border-color:rgb(45, 185, 229) }
```

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

Here you see how a box with a 4 pixel `rgb(45, 185, 229)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 185, 229); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 185, 229);  
box-shadow:4px 4px 4px 4px rgb(45, 185,  
229) }
```

# Background

The CSS property to change the background color of an element to CIELCh 70, 38.550, 236.652 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 185, 229) }
```

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

```
.background{ background-color: rgb(45, 185,  
229) }
```

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