

# Converting Colors

CIELCh(70, 36.166, 238.710)

Have a look what the booklet for  
CIELCh(70, 36.166, 238.710)  
contains.

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# Color

**CIELCh(70, 36.082, 238.941)**

# Conversions

## Conversions Part 1

Format	Color
Hex	44B7E2
RGB	68, 183, 226
RGB Percent	27%, 72%, 89%
CMY	0.7316, 0.2811, 0.1124
CMYK	0.70, 0.19, 0.00, 0.11
HSL	196°, 73%, 58%
HSV	196°, 70%, 89%
XYZ	33.1842, 40.7494, 78.3024
YIQ	153.5170, -82.3430, -11.0070

# Conversions

## Conversions Part 2

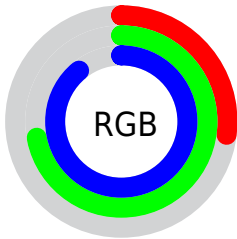
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	68, 135, 226
Decimal	4503522
CIE Lab	70.00, -18.62, -30.91
CIE LCh	70, 36.082, 238.941
Yxy	40.7494, 0.2180, 0.2677
Android (android.graphics.Color)	4282693602 (0xFF44B7E2)
YUV	153.5170, 35.7341, -74.9984
Hunter-Lab	63.8353, -18.9201, -28.0424

# Details

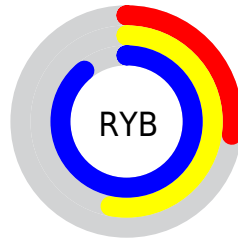
The CIELCh color **70, 36.082, 238.941** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light muted azure. A complement of this color would be **60, 60.616, 46.624**, and the grayscale version is **63, 0.008, 296.813**.

A 20% lighter version of the original color is **89, 31.480, 213.065**, and **51, 33.504, 243.825** is the 20% darker color. If you saturate the color by 10%, you get **68, 38.900, 242.432**, and if you desaturate by 10%, it is **72, 32.618, 236.110**.

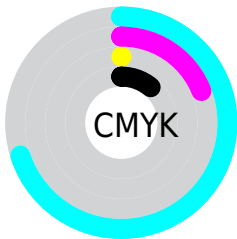
# Distribution



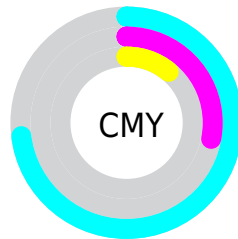
- Red (27%)
- Green (72%)
- Blue (89%)



- Red (27%)
- Yellow (53%)
- Blue (89%)



- Cyan (70%)
- Magenta (19%)
- Yellow (0%)
- Black (11%)




- Cyan (73%)
- Magenta (28%)
- Yellow (11%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 70, 36.082, 238.941 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, 36.082, 238.941 by changing the saturation by 10% instead.





 70, 36.082,  
238.941


 70, 36.082,  
238.941


 100, 36.082,  
238.941


 60, 36.082,  
238.941


 90, 36.082,  
238.941

 50, 36.082,  
238.941

 40, 36.082,  
238.941

 30, 36.082,  
238.941

 20, 36.082,  
238.941

 10, 36.082,  
238.941

 0, 36.082, 238.941

70, 36.082,  
238.941

70, 36.082,  
238.941

68, 38.900,  
242.432

72, 32.618,  
236.110

66, 41.174,  
246.627

75, 28.488,  
233.855

64, 43.134,  
251.392

78, 23.723,  
232.082

64, 43.183,  
251.506

81, 18.393,  
230.703

84, 12.579,  
229.643

87, 6.370, 228.859

90, 0.155, 44.476

93, 6.923, 47.572



# Harmonies

# Complementary

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



70, 36.082, 238.941



60, 60.616, 46.624

# Rectangle

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



70, 36.082, 238.941



70, 36.082, 288.941



70, 36.082, 58.941



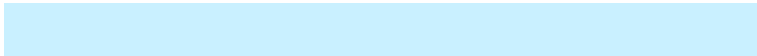
70, 36.082, 108.941

# Sweetspot

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



70, 36.081, 238.941



93, 14.670, 229.772



80, 78.581, 145.367



48, 9.851, 230.049



0, 0.000, 0.000



53, 0.007, 296.813



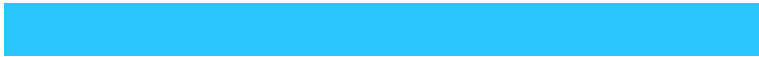


# Same Dimension

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



70, 36.081, 238.941



74, 43.827, 244.356



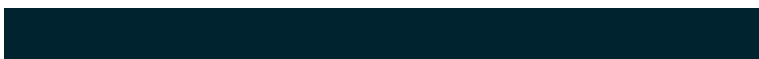
48, 70.856, 292.428



46, 3.682, 228.839



50, 35.557, 250.607



12, 13.915, 241.467



# Inverse Universe

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



56, 76.355, 338.880



59, 91.705, 340.701



78, 63.278, 89.483



44, 6.740, 333.792



39, 71.204, 342.832

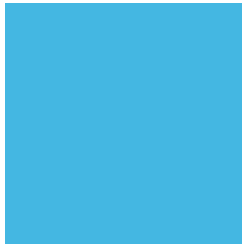


7, 29.905, 339.880



# Previews

## White Background



This preview shows how the CIELCh color 70, 36.082, 238.941 looks on a white background.

## Color Contrast Check

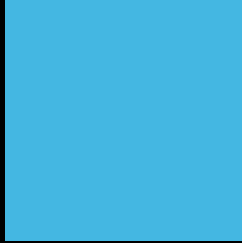
Large Text (above 18pt) WCAG AA × Fail

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, 36.082, 238.941 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

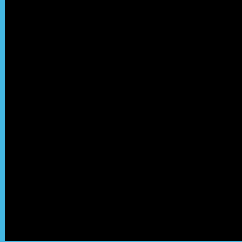
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 70, 36.082, 238.941

## Background



This preview shows how black text looks on a background with the CIELCh color 70, 36.082, 238.941.

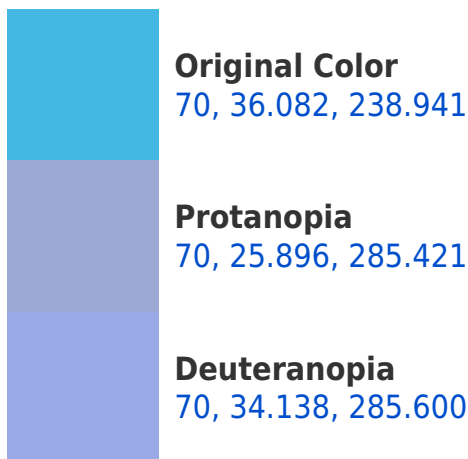


This preview shows how white text looks on a background with the CIELCh color 70, 36.082, 238.941.

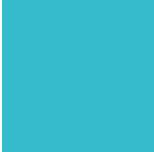
# Color Blindness Simulation

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, 34.958, 211.635

# Trichromacy



**Original Color**  
70, 36.082, 238.941



**Protanomaly**  
69, 28.191, 260.624



**Deuteranomaly**  
70, 33.046, 265.617



**Tritanomaly**  
70, 34.476, 220.858

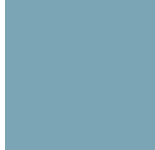
# Monochromacy



**Original Color**  
70, 36.082, 238.941



**Achromatopsia**  
64, 0.008, 296.813



**Achromatomaly**  
65, 16.179, 229.593

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 70, 36.082, 238.941 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(68, 183, 226)` looks like.

```
.text, #text, p{  
    color:rgb(68, 183, 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(68, 183, 226) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(68, 183, 226) }
```

## Border

The CSS property to change the border of an element to CIELCh 70, 36.082, 238.941 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(68, 183, 226) }
```

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

```
.border{ border-color:rgb(68, 183, 226) }
```

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

Here you see how a box with a 4 pixel `rgb(68, 183, 226)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(68, 183, 226); -webkit-box-  
shadow:4px 4px 4px 4px rgb(68, 183, 226);  
box-shadow:4px 4px 4px 4px rgb(68, 183,  
226) }
```

# Background

The CSS property to change the background color of an element to CIELCh 70, 36.082, 238.941 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(68, 183, 226) }
```

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

```
.background{ background-color: rgb(68, 183,  
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](#).

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