

# Converting Colors

CIELCh(68, 33.384, 228.141)

Have a look what the booklet for  
CIELCh(68, 33.384, 228.141)  
contains.

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# Color

**CIELCh(68, 33.448, 228.474)**

# Conversions

## Conversions Part 1

Format	Color
Hex	40B3D2
RGB	64, 179, 210
RGB Percent	25%, 70%, 82%
CMY	0.7491, 0.2981, 0.1766
CMYK	0.70, 0.15, 0.00, 0.18
HSL	193°, 62%, 54%
HSV	193°, 70%, 82%
XYZ	29.8579, 37.9720, 66.7128
YIQ	148.1490, -78.4910, -14.7390

# Conversions

## Conversions Part 2

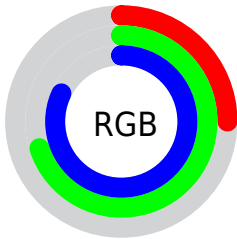
<b>Format</b>	<b>Color</b>
<b>RYB</b>	64, 128, 210
Decimal	4240338
CIELab	68.00, -22.17, -25.04
CIELCh	68, 33.448, 228.474
Yxy	37.9720, 0.2219, 0.2822
Android (android.graphics.Color)	4282430418 (0xFF40B3D2)
YUV	148.1490, 30.4925, -73.7987
Hunter-Lab	61.6215, -21.3475, -21.0537

# Details

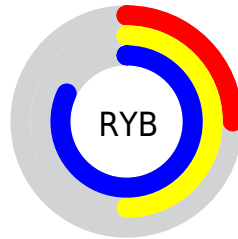
The CIELCh color **68, 33.448, 228.474** is a light color, and the websafe version is hex **33CCFF**. The color can be described as light muted azure. A complement of this color would be **54, 58.511, 42.181**, and the grayscale version is **61, 0.008, 296.813**.

A 20% lighter version of the original color is **88, 31.900, 216.900**, and **49, 30.112, 232.199** is the 20% darker color. If you saturate the color by 10%, you get **66, 35.652, 231.179**, and if you desaturate by 10%, it is **70, 30.495, 226.335**.

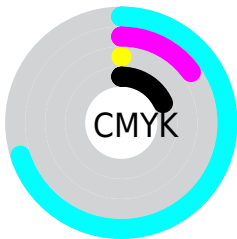
# Distribution



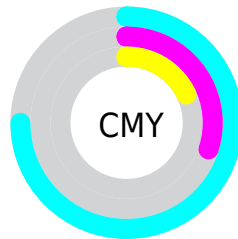
- Red (25%)
- Green (70%)
- Blue (82%)



- Red (25%)
- Yellow (50%)
- Blue (82%)



- Cyan (70%)
- Magenta (15%)
- Yellow (0%)
- Black (18%)



- Cyan (75%)
- Magenta (30%)
- Yellow (18%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 68, 33.448, 228.474 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 68, 33.448, 228.474 by changing the saturation by 10% instead.



 68, 33.448,  
228.474

 68, 33.448,  
228.474

 100, 33.448,  
228.474

 58, 33.448,  
228.474

 88, 33.448,  
228.474

 48, 33.448,  
228.474

 98, 33.448,  
228.474

 38, 33.448,  
228.474

 28, 33.448,  
228.474

 18, 33.448,  
228.474

 8, 33.448, 228.474

 0, 33.448, 228.474

68, 33.448,  
228.474

68, 33.448,  
228.474

66, 35.652,  
231.179

70, 30.495,  
226.335

65, 37.173,  
234.524

72, 26.799,  
224.676

63, 38.215,  
238.450

74, 22.413,  
223.413

63, 38.263,  
238.637

77, 17.417,  
222.471

79, 11.905,  
221.788

82, 5.971, 221.336

84, 0.299, 39.028

87, 6.827, 40.594



# Harmonies

# Complementary

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



68, 33.448, 228.474



54, 58.511, 42.181

# Rectangle

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



68, 33.448, 228.474



68, 33.448, 278.474



68, 33.448, 48.474



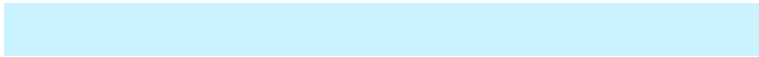
68, 33.448, 98.474

# Sweetspot

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



68, 33.447, 228.473



94, 14.910, 221.888



75, 77.519, 143.294



49, 10.002, 222.066



0, 0.000, 0.000



53, 0.007, 296.813



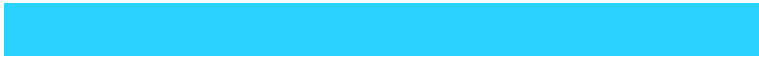


# Same Dimension

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



68, 33.447, 228.473



78, 42.142, 232.569



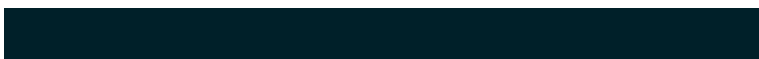
48, 60.309, 288.342



43, 3.544, 221.332



51, 32.384, 237.929



11, 12.200, 229.006



# Inverse Universe

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



53, 74.686, 335.912



60, 95.085, 337.238



70, 57.138, 84.346



41, 6.637, 331.523



38, 71.916, 338.825



5, 26.404, 336.250



# Previews

## White Background



This preview shows how the CIELCh color 68, 33.448, 228.474 looks on a white background.

## Color Contrast Check

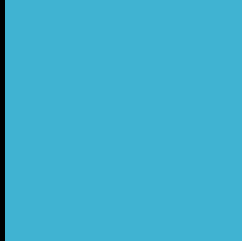
Large Text (above 18pt) WCAG AA × Fail

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 68, 33.448, 228.474 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

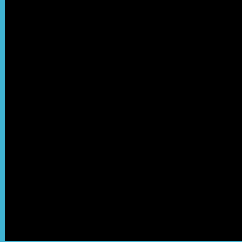
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**CIELCh 68, 33.448, 228.474**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 68, 33.448, 228.474.



This preview shows how white text looks on a background with the CIELCh color 68, 33.448, 228.474.

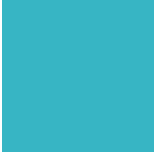
# Color Blindness Simulation

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**  
68, 33.638, 211.362

# Trichromacy



**Original Color**  
68, 33.448, 228.474



**Protanomaly**  
67, 23.204, 253.162



**Deuteranomaly**  
67, 28.053, 261.875



**Tritanomaly**  
68, 33.259, 217.731

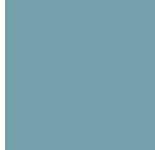
# Monochromacy



**Original Color**  
68, 33.448, 228.474



**Achromatopsia**  
61, 0.008, 296.813



**Achromatomaly**  
63, 15.614, 223.943

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 68, 33.448, 228.474 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(64, 179, 210)` looks like.

```
.text, #text, p{  
    color:rgb(64, 179, 210)  
}
```

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(64, 179, 210) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(64, 179, 210) }
```

## Border

The CSS property to change the border of an element to CIELCh 68, 33.448, 228.474 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(64, 179, 210) }
```

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

```
.border{ border-color:rgb(64, 179, 210) }
```

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

Here you see how a box with a 4 pixel `rgb(64, 179, 210)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(64, 179, 210); -webkit-box-  
shadow:4px 4px 4px 4px rgb(64, 179, 210);  
box-shadow:4px 4px 4px 4px rgb(64, 179,  
210) }
```

# Background

The CSS property to change the background color of an element to CIELCh 68, 33.448, 228.474 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(64, 179, 210) }
```

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

```
.background{ background-color: rgb(64, 179,  
210) }
```

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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