

# Converting Colors

CIELCh(68, 32.271, 242.933)

Have a look what the booklet for  
CIELCh(68, 32.271, 242.933)  
contains.

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# **Color**

**CIELCh(68, 32.242, 242.937)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	57B0D9
RGB	87, 176, 217
RGB Percent	34%, 69%, 85%
CMY	0.6598, 0.3107, 0.1500
CMYK	0.60, 0.19, 0.00, 0.15
HSL	199°, 63%, 60%
HSV	199°, 60%, 85%
XYZ	31.8799, 37.9720, 71.1318
YIQ	154.0630, -66.2050, -6.1170

# Conversions

## Conversions Part 2

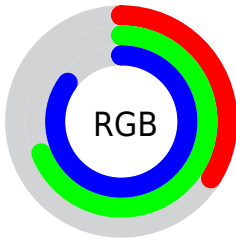
Format	Color
R <sub>Y</sub> B	87, 140, 217
Decimal	5746905
CIE Lab	68.00, -14.67, -28.71
CIE LCh	68, 32.242, 242.937
Yxy	37.9720, 0.2261, 0.2693
Android (android.graphics.Color)	4283936985 (0xFF57B0D9)
YUV	154.0630, 31.0279, -58.8143
Hunter-Lab	61.6215, -15.4904, -25.3055

# Details

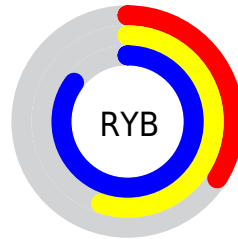
The CIELCh color **68, 32.242, 242.937** is a light color, and the websafe version is hex **3399CC**. The color can be described as light muted azure. A complement of this color would be **62, 47.847, 50.249**, and the grayscale version is **63, 0.008, 296.813**.

A 20% lighter version of the original color is **88, 27.702, 223.883**, and **48, 32.193, 243.817** is the 20% darker color. If you saturate the color by 10%, you get **65, 35.958, 246.118**, and if you desaturate by 10%, it is **71, 27.983, 240.356**.

# Distribution



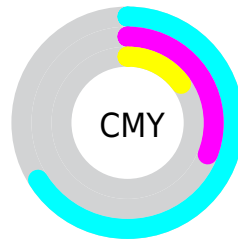
- Red (34%)
- Green (69%)
- Blue (85%)



- Red (34%)
- Yellow (55%)
- Blue (85%)



- Cyan (60%)
- Magenta (19%)
- Yellow (0%)
- Black (15%)




- Cyan (66%)
- Magenta (31%)
- Yellow (15%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 68, 32.242, 242.937 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, 32.242, 242.937 by changing the saturation by 10% instead.





 68, 32.242,  
242.937


 68, 32.242,  
242.937


 100, 32.242,  
242.937


 58, 32.242,  
242.937


 88, 32.242,  
242.937

 48, 32.242,  
242.937

 98, 32.242,  
242.937

 38, 32.242,  
242.937

 28, 32.242,  
242.937

 18, 32.242,  
242.937

 8, 32.242, 242.937

 0, 32.242, 242.937

68, 32.242,  
242.937

68, 32.242,  
242.937

65, 35.958,  
246.118

71, 27.983,  
240.356

63, 39.173,  
249.968

74, 23.198,  
238.289

61, 41.996,  
254.493

77, 17.938,  
236.647

58, 44.656,  
259.491

80, 12.270,  
235.351

58, 44.661,  
259.500

83, 6.265, 234.354

87, 0.012, 1.662

90, 6.486, 52.710

93, 11.513, 57.356

95, 12.387, 77.324



# Harmonies

# Complementary

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



68, 32.242, 242.937



62, 47.847, 50.249

# Rectangle

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



68, 32.242, 242.937



68, 32.242, 292.937



68, 32.242, 62.937



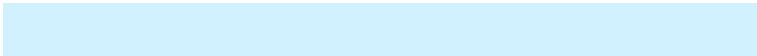
68, 32.242, 112.937

# Sweetspot

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



68, 32.241, 242.937



93, 12.664, 235.148



78, 65.194, 148.136



49, 8.739, 235.481



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, 32.241, 242.937



75, 41.676, 247.083



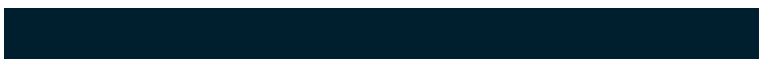
50, 60.541, 291.331



44, 3.601, 234.309



47, 37.507, 258.647



11, 13.919, 248.258



# Inverse Universe

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



57, 64.443, 339.958



62, 83.245, 341.502



78, 54.785, 93.179



43, 6.414, 335.529



38, 68.536, 345.915



6, 27.746, 342.131



# Previews

## White Background



This preview shows how the CIELCh color 68, 32.242, 242.937 looks on a white background.

## Color Contrast Check

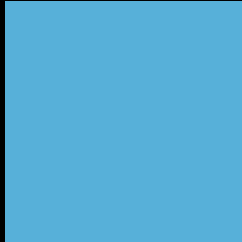
Large Text (above 18pt) WCAG AA × Fail

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, 32.242, 242.937 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

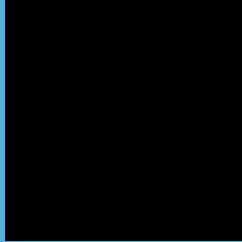
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

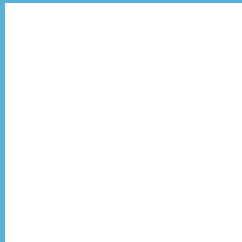
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 68, 32.242, 242.937

## Background



This preview shows how black text looks on a background with the CIELCh color 68, 32.242, 242.937.

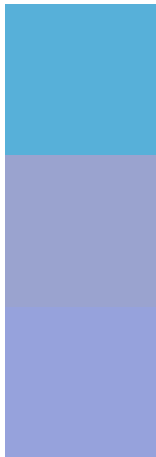


This preview shows how white text looks on a background with the CIELCh color 68, 32.242, 242.937.

# 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

68, 32.242, 242.937

### Protanopia

68, 24.373, 285.567

### Deuteranopia

68, 32.099, 286.554





**Tritanopia**  
68, 30.092, 212.229

# Trichromacy



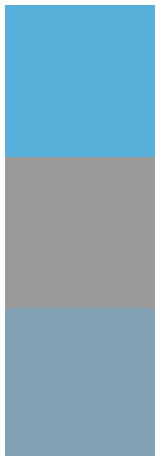
**Original Color**  
68, 32.242, 242.937

**Protanomaly**  
68, 26.047, 265.270

**Deuteranomaly**  
67, 30.601, 269.613

**Tritanomaly**  
68, 29.771, 224.156

# Monochromacy



**Original Color**  
68, 32.242, 242.937

**Achromatopsia**  
64, 0.008, 296.813

**Achromatomaly**  
65, 13.623, 236.649

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 68, 32.242, 242.937 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, 176, 217)` looks like.

```
.text, #text, p{  
    color:rgb(87, 176, 217)  
}
```

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, 176, 217) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(87, 176, 217) }
```

## Border

The CSS property to change the border of an element to CIELCh 68, 32.242, 242.937 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, 176, 217) }
```

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

```
.border{ border-color:rgb(87, 176, 217) }
```

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

Here you see how a box with a 4 pixel `rgb(87, 176, 217)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(87, 176, 217); -webkit-box-  
shadow:4px 4px 4px 4px rgb(87, 176, 217);  
box-shadow:4px 4px 4px 4px rgb(87, 176,  
217) }
```

# Background

The CSS property to change the background color of an element to CIELCh 68, 32.242, 242.937 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(87, 176, 217) }
```

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

```
.background{ background-color: rgb(87, 176,  
217) }
```

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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