

# Converting Colors

CIELCh(68, 10.612, 230.221)

Have a look what the booklet for  
CIELCh(68, 10.612, 230.221)  
contains.

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# Color

**CIELCh(68, 10.564, 230.347)**

# Conversions

## Conversions Part 1

Format	Color
Hex	90AAB4
RGB	144, 170, 180
RGB Percent	56%, 67%, 71%
CMY	0.4353, 0.3333, 0.2941
CMYK	0.20, 0.06, 0.00, 0.29
HSL	197°, 19%, 64%
HSV	197°, 20%, 71%
XYZ	34.1127, 37.9720, 48.7094
YIQ	163.3660, -18.7060, -2.4020

# Conversions

## Conversions Part 2

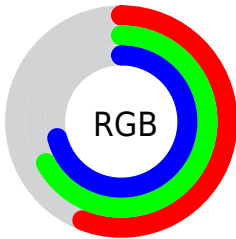
<b>Format</b>	<b>Color</b>
<b>RYB</b>	144, 159, 180
Decimal	9480884
CIELab	68.00, -6.74, -8.13
CIELCh	68, 10.564, 230.347
Yxy	37.9720, 0.2824, 0.3144
Android (android.graphics.Color)	4287670964 (0xFF90AAB4)
YUV	163.3660, 8.2006, -16.9840
Hunter-Lab	61.6215, -9.0228, -3.7314

# Details

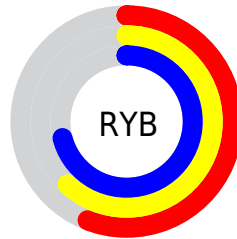
The CIELCh color `68, 10.564, 230.347` is a light color, and the websafe version is hex `999999`. A complement of this color would be `66, 11.892, 47.739`, and the grayscale version is `67, 0.008, 296.813`.

A 20% lighter version of the original color is `88, 10.686, 231.557`, and `48, 10.472, 229.182` is the 20% darker color. If you saturate the color by 10%, you get `65, 15.398, 231.409`, and if you desaturate by 10%, it is `71, 5.411, 229.540`.

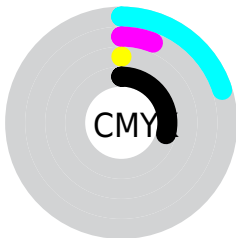
# Distribution



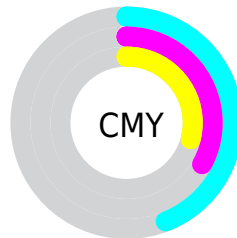
- Red (56%)
- Green (67%)
- Blue (71%)



- Red (56%)
- Yellow (62%)
- Blue (71%)



- Cyan (20%)
- Magenta (6%)
- Yellow (0%)
- Black (29%)




- Cyan (44%)
- Magenta (33%)
- Yellow (29%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 68, 10.564, 230.347 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, 10.564, 230.347 by changing the saturation by 10% instead.





 68, 10.564,  
230.347


 68, 10.564,  
230.347


 100, 10.564,  
230.347


 58, 10.564,  
230.347


 88, 10.564,  
230.347

 48, 10.564,  
230.347

 98, 10.564,  
230.347

 38, 10.564,  
230.347

 28, 10.564,  
230.347

 18, 10.564,  
230.347

 8, 10.564, 230.347

 0, 10.564, 230.347

68, 10.564,  
230.347

68, 10.564,  
230.347

65, 15.398,  
231.409

71, 5.411, 229.540

63, 19.844,  
232.792

73, 0.009, 296.108

76, 5.601, 48.214

61, 23.836,  
234.559

79, 11.354, 47.874

58, 27.321,  
236.794

82, 17.215, 47.597

85, 23.148, 47.385

56, 30.270,  
239.588

86, 23.823, 53.460

54, 32.700,  
243.021

87, 23.813, 60.890

89, 24.208, 68.187

53, 34.688,  
247.135

51, 36.445,

251.742

# Harmonies

# Complementary

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



68, 10.564, 230.347



66, 11.892, 47.739

# Rectangle

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



68, 10.564, 230.347



68, 10.564, 280.347



68, 10.564, 50.347



68, 10.564, 100.347

# Sweetspot

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



68, 10.564, 230.339



91, 4.061, 229.321



70, 19.911, 151.531



48, 2.688, 229.350



96, 0.011, 296.813



49, 0.007, 296.813





# Same Dimension

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



68, 10.564, 230.339



85, 15.534, 230.776



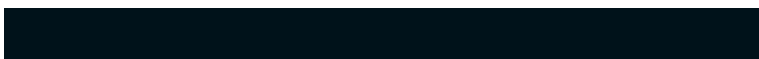
63, 15.638, 280.968



36, 3.048, 229.496



44, 32.174, 251.053



5, 7.533, 241.086



# Inverse Universe

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



64, 19.886, 334.743



79, 29.630, 335.065



70, 15.386, 95.979



35, 5.559, 333.982



34, 64.138, 342.990

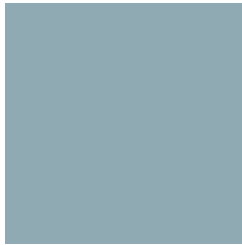


2, 12.434, 337.591



# Previews

## White Background



This preview shows how the CIELCh color 68, 10.564, 230.347 looks on a white background.

## Color Contrast Check

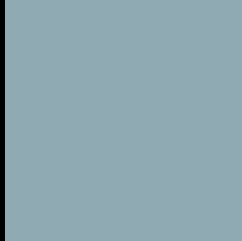
Large Text (above 18pt) WCAG AA × Fail

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, 10.564, 230.347 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

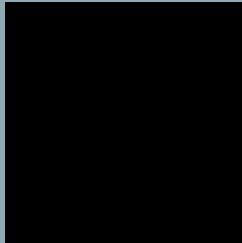
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

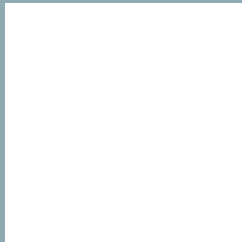
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 68, 10.564, 230.347**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 68, 10.564, 230.347.



This preview shows how white text looks on a background with the CIELCh color 68, 10.564, 230.347.

# 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, 10.564, 230.347

**Protanopia**  
68, 7.188, 293.846

**Deuteranopia**  
68, 12.591, 313.582





**Tritanopia**  
68, 11.149, 238.979

# Trichromacy



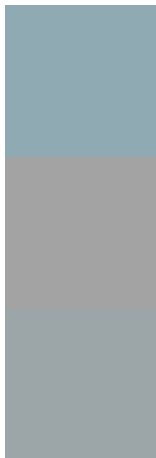
**Original Color**  
68, 10.564, 230.347

**Protanomaly**  
68, 7.310, 264.363

**Deuteranomaly**  
68, 9.379, 288.925

**Tritanomaly**  
68, 10.839, 236.569

# Monochromacy



**Original Color**  
68, 10.564, 230.347

**Achromatopsia**  
67, 0.008, 296.813

**Achromatomaly**  
67, 4.027, 223.534

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 68, 10.564, 230.347 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(144, 170, 180)` looks like.

```
.text, #text, p{  
    color:rgb(144, 170, 180)  
}
```

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(144, 170, 180) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(144, 170, 180) }
```

## Border

The CSS property to change the border of an element to CIELCh 68, 10.564, 230.347 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(144, 170, 180) }
```

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

```
.border{ border-color:rgb(144, 170, 180) }
```

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

Here you see how a box with a 4 pixel `rgb(144, 170, 180)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(144, 170, 180); -webkit-box-  
shadow:4px 4px 4px 4px rgb(144, 170, 180);  
box-shadow:4px 4px 4px 4px rgb(144, 170,  
180) }
```

# Background

The CSS property to change the background color of an element to CIELCh 68, 10.564, 230.347 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(144, 170, 180) }
```

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

```
.background{ background-color: rgb(144,  
170, 180) }
```

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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