

# Converting Colors

CIELCh(68, 1.032, 228.478)

Have a look what the booklet for  
CIELCh(68, 1.032, 228.478) contains.

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# Color

**CIELCh(68, 0.929, 236.297)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A4A6A7
RGB	164, 166, 167
RGB Percent	64%, 65%, 65%
CMY	0.3567, 0.3489, 0.3450
CMYK	0.02, 0.01, 0.00, 0.34
HSL	200°, 2%, 65%
HSV	200°, 2%, 66%
XYZ	35.9373, 37.9720, 42.0105
YIQ	165.5160, -1.5130, -0.1130

# Conversions

## Conversions Part 2

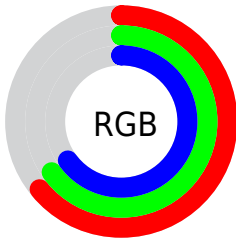
Format	Color
<b>RYB</b>	164, 165, 167
Decimal	10790567
CIELab	68.00, -0.52, -0.77
CIELCh	68, 0.929, 236.297
Yxy	37.9720, 0.3100, 0.3276
Android (android.graphics.Color)	4288980647 (0xFFA4A6A7)
YUV	165.5160, 0.7316, -1.3295
Hunter-Lab	61.6215, -3.7372, 2.7140

# Details

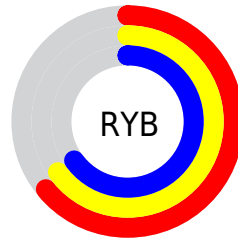
The CIELCh color  $68, 0.929, 236.297$  is a light color, and the websafe version is hex  $999999$ . A complement of this color would be  $68, 0.929, 54.983$ , and the grayscale version is  $68, 0.008, 296.813$ .

A 20% lighter version of the original color is  $88, 0.883, 236.401$ , and  $48, 0.992, 236.226$  is the 20% darker color. If you saturate the color by 10%, you get  $65, 5.978, 236.702$ , and if you desaturate by 10%, it is  $71, 4.281, 54.887$ .

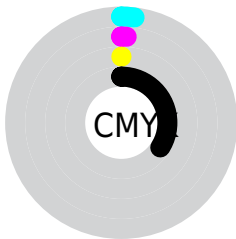
# Distribution



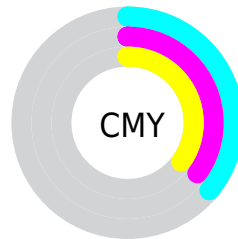
- Red (64%)
- Green (65%)
- Blue (65%)



- Red (64%)
- Yellow (65%)
- Blue (65%)



- Cyan (2%)
- Magenta (1%)
- Yellow (0%)
- Black (34%)



- Cyan (36%)
- Magenta (35%)
- Yellow (35%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 68, 0.929, 236.297 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, 0.929, 236.297 by changing the saturation by 10% instead.



■ 68, 0.929, 236.297

■ 68, 0.929, 236.297

■ 100, 0.929,  
236.297

■ 58, 0.929, 236.297

■ 88, 0.929, 236.297

■ 48, 0.929, 236.297

■ 98, 0.929, 236.297

■ 38, 0.929, 236.297

■ 28, 0.929, 236.297

■ 18, 0.929, 236.297

■ 8, 0.929, 236.297

■ 0, 0.929, 236.297

■ 68, 0.929, 236.297

■ 68, 0.929, 236.297

■ 65, 5.978, 236.702

■ 71, 4.281, 54.887

63, 10.819,  
237.802

74, 9.613, 54.347

60, 15.401,  
239.200

77, 15.031, 53.880

57, 19.672,  
240.949

80, 20.508, 53.492

55, 23.584,  
243.125

82, 26.021, 53.171

52, 27.104,  
245.810

85, 28.381, 56.855

50, 30.229,  
249.084

86, 28.520, 63.725

48, 32.997,  
252.998

87, 29.073, 70.418

46, 35.500,  
257.542

89, 30.014, 76.754

# Harmonies

# Complementary

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



68, 0.929, 236.297



68, 0.929, 54.983

# Rectangle

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



68, 0.929, 236.297



68, 0.929, 286.297



68, 0.929, 56.297



68, 0.929, 106.297

# Sweetspot

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



68, 0.929, 236.180



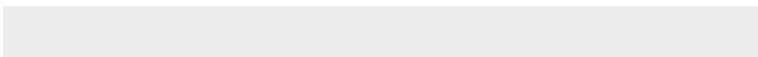
86, 0.643, 236.464



68, 1.602, 155.035



46, 0.368, 236.507



94, 0.011, 296.813



46, 0.006, 296.813



# Same Dimension

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



68, 0.929, 236.180



86, 1.278, 236.146



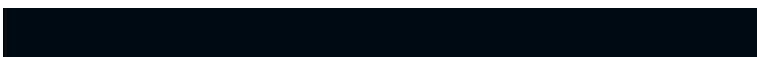
68, 1.370, 281.676



35, 0.589, 236.170



40, 34.111, 260.920



3, 5.475, 245.029





# Inverse Universe

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



68, 1.599, 335.558



85, 2.201, 335.597



68, 1.351, 101.096



35, 1.014, 335.568



32, 60.497, 346.896



2, 8.722, 339.067



# Previews

## White Background



This preview shows how the CIELCh color 68, 0.929, 236.297 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 CIE LCh color 68, 0.929, 236.297 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

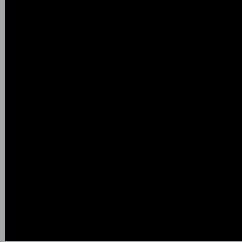
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

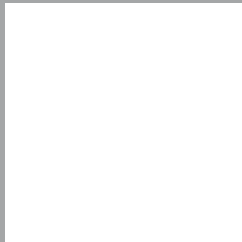
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 68, 0.929, 236.297**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 68, 0.929, 236.297.



This preview shows how white text looks on a background with the CIELCh color 68, 0.929, 236.297.

# 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, 0.929, 236.297

### Protanopia

68, 1.273, 353.530

### Deuteranopia

68, 8.838, 350.376



**Tritanopia**  
68, 7.221, 296.763



# Trichromacy



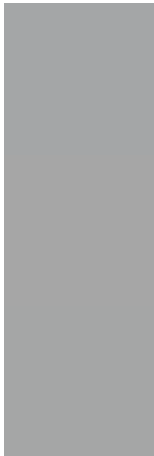
**Original Color**  
68, 0.929, 236.297

**Protanomaly**  
68, 0.947, 343.372

**Deuteranomaly**  
68, 5.656, 344.148

**Tritanomaly**  
68, 4.413, 290.641

# Monochromacy



**Original Color**  
68, 0.929, 236.297

**Achromatopsia**  
68, 0.008, 296.813

**Achromatomaly**  
68, 0.377, 200.649

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 68, 0.929, 236.297 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(164, 166, 167)` looks like.

```
.text, #text, p{  
    color:rgb(164, 166, 167)  
}
```

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(164, 166, 167) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(164, 166, 167) }
```

## Border

The CSS property to change the border of an element to CIELCh 68, 0.929, 236.297 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(164, 166, 167) }
```

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

```
.border{ border-color:rgb(164, 166, 167) }
```

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

Here you see how a box with a 4 pixel `rgb(164, 166, 167)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(164, 166, 167); -webkit-box-  
shadow:4px 4px 4px 4px rgb(164, 166, 167);  
box-shadow:4px 4px 4px 4px rgb(164, 166,  
167) }
```

# Background

The CSS property to change the background color of an element to CIELCh 68, 0.929, 236.297 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(164, 166, 167) }
```

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

```
.background{ background-color: rgb(164,  
166, 167) }
```

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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