

# Converting Colors

CIELCh(72, 13.018, 260.999)

Have a look what the booklet for  
CIELCh(72, 13.018, 260.999)  
contains.

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# **Color**

**CIELCh(72, 13.007, 260.983)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A0B3C8
RGB	160, 179, 200
RGB Percent	63%, 70%, 78%
CMY	0.3741, 0.2996, 0.2173
CMYK	0.20, 0.11, 0.00, 0.22
HSL	211°, 27%, 70%
HSV	211°, 20%, 78%
XYZ	40.8311, 43.6590, 60.6632
YIQ	175.7130, -18.0650, 2.5030

# Conversions

## Conversions Part 2

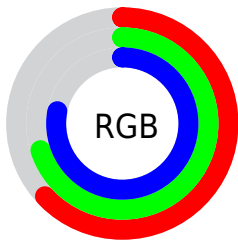
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	160, 173, 200
Decimal	10531784
CIE Lab	72.00, -2.04, -12.85
CIE LCh	72, 13.007, 260.983
Yxy	43.6590, 0.2813, 0.3008
Android (android.graphics.Color)	4288721864 (0xFFA0B3C8)
YUV	175.7130, 11.9735, -13.7803
Hunter-Lab	66.0750, -5.3269, -8.1814

# Details

The CIELCh color  $72, 13.007, 260.983$  is a light color, and the websafe version is hex  $999999$ . A complement of this color would be  $75, 13.596, 75.536$ , and the grayscale version is  $72, 0.009, 296.813$ .

A 20% lighter version of the original color is  $92, 12.168, 257.634$ , and  $52, 13.087, 262.075$  is the 20% darker color. If you saturate the color by 10%, you get  $68, 19.421, 262.813$ , and if you desaturate by 10%, it is  $76, 6.536, 259.445$ .

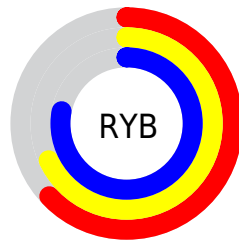
# Distribution



Red (63%)

Green (70%)

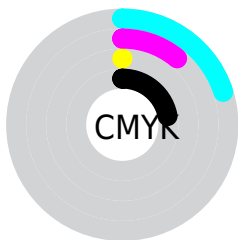
Blue (78%)



Red (63%)

Yellow (68%)

Blue (78%)

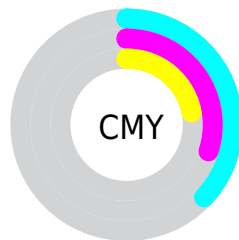


Cyan (20%)

Magenta (11%)

Yellow (0%)

Black (22%)



Cyan (37%)

Magenta (30%)


Yellow (22%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 72, 13.007, 260.983 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 72, 13.007, 260.983 by changing the saturation by 10% instead.





 72, 13.007,  
260.983


 72, 13.007,  
260.983


 100, 13.007,  
260.983


 62, 13.007,  
260.983


 92, 13.007,  
260.983

 52, 13.007,  
260.983

 42, 13.007,  
260.983

 32, 13.007,  
260.983

 22, 13.007,  
260.983

 12, 13.007,  
260.983

 2, 13.007, 260.983

0, 13.007, 260.983

72, 13.007,  
260.983

72, 13.007,  
260.983

68, 19.421,  
262.813

76, 6.536, 259.445

64, 25.764,  
264.995

80, 0.031, 269.310

60, 32.029,  
267.577

85, 6.489, 76.885

56, 38.227,  
270.609

89, 13.003, 75.940

52, 44.395,  
274.113

93, 18.587, 79.416

48, 50.601,  
278.060

95, 21.966, 94.960

98, 26.484,  
105.636

99, 27.942,

■ 45, 56.927,  
282.348

108.055

■ 42, 63.435,  
286.668

# Harmonies

# Complementary

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



72, 13.007, 260.983



75, 13.596, 75.536

# Rectangle

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



72, 13.007, 260.983



72, 13.007, 310.983



72, 13.007, 80.983



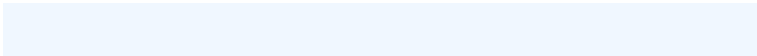
72, 13.007, 130.983

# Sweetspot

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



72, 13.006, 260.977



97, 4.775, 258.931



77, 17.951, 162.800



51, 3.166, 259.012



0, 0.000, 0.000



53, 0.007, 296.813



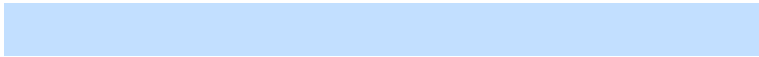


# Same Dimension

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



72, 13.006, 260.977



88, 18.978, 261.730



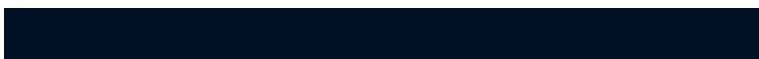
67, 22.135, 293.018



40, 3.684, 259.355



34, 53.822, 285.977



5, 14.423, 272.359



# Inverse Universe

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



70, 18.349, 346.798



85, 26.916, 347.247



79, 21.136, 108.959



39, 5.117, 345.764



35, 60.536, 3.915

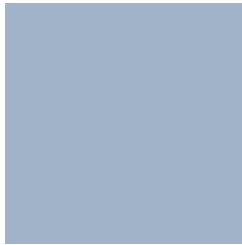


4, 17.625, 354.491



# Previews

## White Background



This preview shows how the CIELCh color 72, 13.007, 260.983 looks on a white background.

## Color Contrast Check

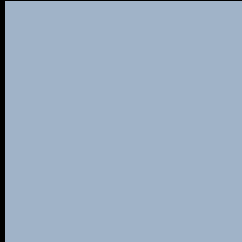
Large Text (above 18pt) WCAG AA × Fail

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 72, 13.007, 260.983 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

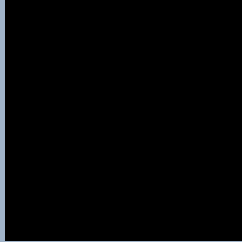
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

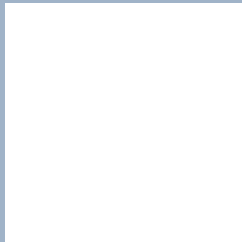
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 72, 13.007, 260.983

## Background



This preview shows how black text looks on a background with the CIELCh color 72, 13.007, 260.983.



This preview shows how white text looks on a background with the CIELCh color 72, 13.007, 260.983.

# 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

72, 13.007, 260.983

### Protanopia

72, 11.998, 287.960

### Deuteranopia

72, 16.272, 304.288





**Tritanopia**  
72, 10.666, 244.774

# Trichromacy



**Original Color**  
72, 13.007, 260.983

**Protanomaly**  
72, 12.246, 278.089

**Deuteranomaly**  
72, 14.180, 291.555

**Tritanomaly**  
72, 11.420, 253.485

# Monochromacy



**Original Color**  
72, 13.007, 260.983

**Achromatopsia**  
71, 0.009, 296.813

**Achromatomaly**  
72, 5.009, 260.062

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 72, 13.007, 260.983 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(160, 179, 200)` looks like.

```
.text, #text, p{  
    color:rgb(160, 179, 200)  
}
```

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(160, 179, 200) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(160, 179, 200) }
```

## Border

The CSS property to change the border of an element to CIELCh 72, 13.007, 260.983 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(160, 179, 200) }
```

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

```
.border{ border-color:rgb(160, 179, 200) }
```

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

Here you see how a box with a 4 pixel `rgb(160, 179, 200)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(160, 179, 200); -webkit-box-  
shadow:4px 4px 4px 4px rgb(160, 179, 200);  
box-shadow:4px 4px 4px 4px rgb(160, 179,  
200) }
```

# Background

The CSS property to change the background color of an element to CIELCh 72, 13.007, 260.983 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(160, 179, 200) }
```

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

```
.background{ background-color: rgb(160,  
179, 200) }
```

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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