

# Converting Colors

CIELCh(72, 0.322, 96.924)

Have a look what the booklet for  
CIELCh(72, 0.322, 96.924) contains.

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# **Color**

**CIELCh(72, 0.376, 18.101)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B1B0B0
RGB	177, 176, 176
RGB Percent	69%, 69%, 69%
CMY	0.3050, 0.3089, 0.3089
CMYK	0.00, 0.01, 0.01, 0.30
HSL	0°, 1%, 69%
HSV	0°, 1%, 70%
XYZ	41.6140, 43.6590, 47.4275
YIQ	176.2990, 0.5960, 0.2120

# Conversions

## Conversions Part 2

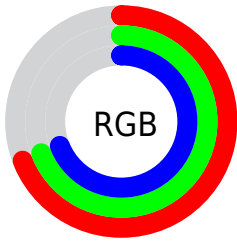
<b>Format</b>	<b>Color</b>
<b>RYB</b>	177, 176, 176
Decimal	11645104
CIELab	72.00, 0.36, 0.12
CIELCh	72, 0.376, 18.101
Yxy	43.6590, 0.3136, 0.3290
Android (android.graphics.Color)	4289835184 (0xFFB1B0B0)
YUV	176.2990, -0.1474, 0.6148
Hunter-Lab	66.0750, -3.2120, 3.6951

# Details

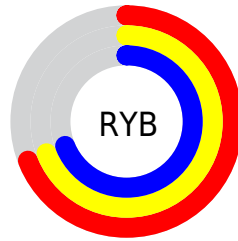
The CIELCh color  $72, 0.376, 18.101$  is a light color, and the websafe version is hex  $999999$ . A complement of this color would be  $72, 0.371, 200.988$ , and the grayscale version is  $72, 0.009, 296.813$ .

A 20% lighter version of the original color is  $92, 0.357, 17.702$ , and  $52, 0.007, 296.813$  is the 20% darker color. If you saturate the color by 10%, you get  $67, 7.267, 20.253$ , and if you desaturate by 10%, it is  $77, 6.002, 199.290$ .

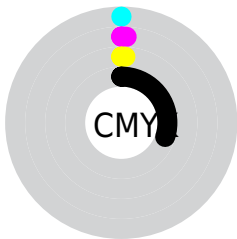
# Distribution



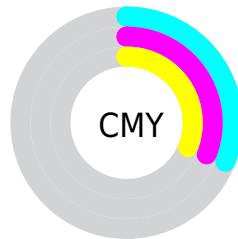
- Red (69%)
- Green (69%)
- Blue (69%)



- Red (69%)
- Yellow (69%)
- Blue (69%)



- Cyan (0%)
- Magenta (1%)
- Yellow (1%)
- Black (30%)



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

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 72, 0.376, 18.101 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, 0.376, 18.101 by changing the saturation by 10% instead.



 72, 0.376, 18.101       72, 0.376, 18.101

100, 0.376, 18.101       62, 0.376, 18.101

 92, 0.376, 18.101       52, 0.376, 18.101

 42, 0.376, 18.101

 32, 0.376, 18.101

 22, 0.376, 18.101

 12, 0.376, 18.101

 2, 0.376, 18.101

 0, 0.376, 18.101

 72, 0.376, 18.101       72, 0.376, 18.101

67, 7.267, 20.253

77, 6.002, 199.290

62, 14.706, 21.094

82, 11.910,  
198.859

57, 22.698, 22.153

88, 17.398,  
198.535

53, 31.201, 23.526

48, 40.106, 25.314

93, 22.517,  
198.277

45, 49.220, 27.622

95, 24.765,  
197.890

41, 58.263, 30.516

39, 66.835, 33.908

38, 74.195, 37.314

# Harmonies

# Complementary

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



72, 0.376, 18.101



72, 0.371, 200.988

# Rectangle

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



72, 0.376, 18.101



72, 0.376, 68.101



72, 0.376, 198.101



72, 0.376, 248.101

# Sweetspot

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



72, 0.375, 18.350



91, 0.011, 296.813



72, 0.672, 324.122



48, 0.006, 296.813



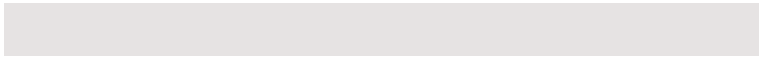
96, 0.011, 296.813

# Same Dimension

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



72, 0.375, 18.350



90, 0.819, 18.974



72, 0.322, 74.308



38, 0.378, 18.901



31, 70.888, 39.572



2, 9.134, 19.601



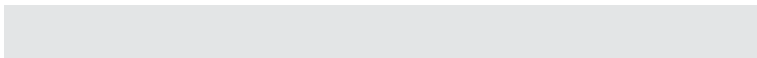


# Inverse Universe

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



72, 0.371, 200.988



91, 0.811, 200.359



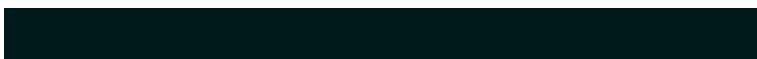
72, 0.335, 256.489



38, 0.375, 200.432



57, 34.079, 196.848



7, 9.094, 199.498



# Previews

## White Background



This preview shows how the CIELCh color 72, 0.376, 18.101 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, 0.376, 18.101 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

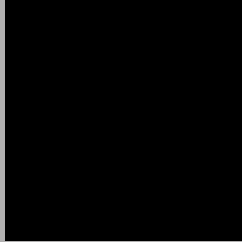
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

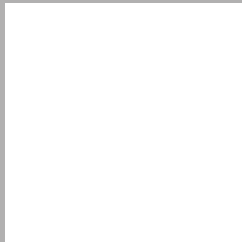
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 72, 0.376, 18.101**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 72, 0.376, 18.101.



This preview shows how white text looks on a background with the CIELCh color 72, 0.376, 18.101.

# 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, 0.376, 18.101

### Protanopia

72, 1.504, 19.199

### Deuteranopia

72, 8.976, 358.921



**Tritanopia**  
72, 7.878, 304.316

# Trichromacy



## Original Color

72, 0.376, 18.101

## Protanomaly

72, 1.127, 19.055

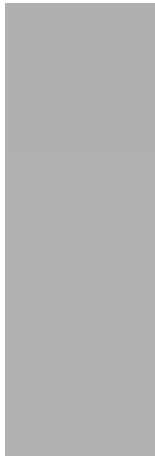
## Deuteranomaly

72, 5.733, 357.577

## Tritanomaly

72, 5.047, 303.301

# Monochromacy



## Original Color

72, 0.376, 18.101

## Achromatopsia

72, 0.009, 296.813

## Achromatomaly

72, 0.009, 296.813



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 72, 0.376, 18.101 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(177, 176, 176)` looks like.

```
.text, #text, p{  
    color:rgb(177, 176, 176)  
}
```

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(177, 176, 176) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(177, 176, 176) }
```

## Border

The CSS property to change the border of an element to CIELCh 72, 0.376, 18.101 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(177, 176, 176) }
```

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

```
.border{ border-color:rgb(177, 176, 176) }
```

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

Here you see how a box with a 4 pixel `rgb(177, 176, 176)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(177, 176, 176); -webkit-box-  
shadow:4px 4px 4px 4px rgb(177, 176, 176);  
box-shadow:4px 4px 4px 4px rgb(177, 176,  
176) }
```

# Background

The CSS property to change the background color of an element to CIELCh 72, 0.376, 18.101 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(177, 176, 176) }
```

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

```
.background{ background-color: rgb(177,  
176, 176) }
```

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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