

# Converting Colors

CIELCh(76, 0.161, 6.490)

Have a look what the booklet for  
CIELCh(76, 0.161, 6.490) contains.

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# **Color**

**CIELCh(76, 0.371, 18.022)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BCBBBB
RGB	188, 187, 187
RGB Percent	74%, 73%, 73%
CMY	0.2623, 0.2662, 0.2662
CMYK	0.00, 0.01, 0.01, 0.26
HSL	0°, 1%, 74%
HSV	0°, 1%, 74%
XYZ	47.5430, 49.8872, 54.2009
YIQ	187.2990, 0.5960, 0.2120

# Conversions

## Conversions Part 2

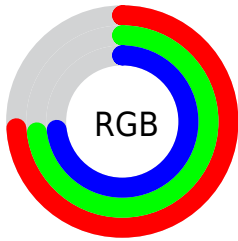
Format	Color
R <sub>Y</sub> B	188, 187, 187
Decimal	12368827
CIE Lab	76.00, 0.35, 0.11
CIE LCh	76, 0.371, 18.022
Yxy	49.8872, 0.3135, 0.3290
Android (android.graphics.Color)	4290558907 (0xFFBCBBBB)
YUV	187.2990, -0.1474, 0.6148
Hunter-Lab	70.6309, -3.4524, 3.9435

# Details

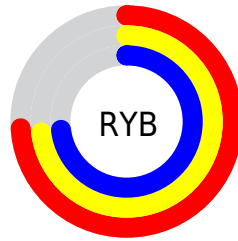
The CIELCh color  $76, 0.371, 18.022$  is a light color, and the websafe version is hex `CCCCCC`. A complement of this color would be  $76, 0.366, 201.089$ , and the grayscale version is  $76, 0.009, 296.813$ .

A 20% lighter version of the original color is  $96, 0.354, 17.624$ , and  $56, 0.395, 18.405$  is the 20% darker color. If you saturate the color by 10%, you get  $71, 7.602, 20.271$ , and if you desaturate by 10%, it is  $81, 6.320, 199.304$ .

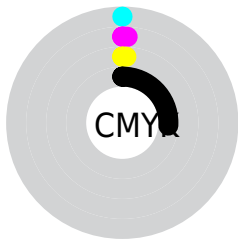
# Distribution



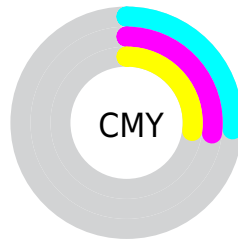
- Red (74%)
- Green (73%)
- Blue (73%)



- Red (74%)
- Yellow (73%)
- Blue (73%)



- Cyan (0%)
- Magenta (1%)
- Yellow (1%)
- Black (26%)



- Cyan (26%)
- Magenta (27%)
- Yellow (27%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 76, 0.371, 18.022 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 76, 0.371, 18.022 by changing the saturation by 10% instead.



■ 76, 0.371, 18.022      ■ 76, 0.371, 18.022

100, 0.371, 18.022      ■ 66, 0.371, 18.022

■ 96, 0.371, 18.022      ■ 56, 0.371, 18.022

■ 46, 0.371, 18.022

■ 36, 0.371, 18.022

■ 26, 0.371, 18.022

■ 16, 0.371, 18.022

■ 6, 0.371, 18.022

■ 0, 0.371, 18.022

■ 76, 0.371, 18.022      ■ 76, 0.371, 18.022

71, 7.602, 20.271

81, 6.320, 199.304

65, 15.412, 21.115

87, 12.516,  
198.874

60, 23.804, 22.180

92, 18.270,  
198.550

56, 32.734, 23.562

51, 42.086, 25.363

96, 21.654,  
198.084

47, 51.654, 27.691

44, 61.141, 30.610

41, 70.117, 34.024

40, 77.780, 37.425

# Harmonies

# Complementary

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



76, 0.371, 18.022



76, 0.366, 201.089

# Rectangle

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



76, 0.371, 18.022



76, 0.371, 68.022



76, 0.371, 198.022



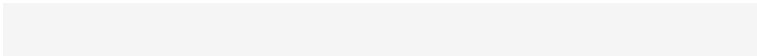
76, 0.371, 248.022

# Sweetspot

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



76, 0.370, 18.285



96, 0.011, 296.813



76, 0.664, 324.100



51, 0.007, 296.813



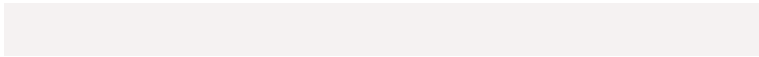
98, 0.011, 296.813

# Same Dimension

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



76, 0.370, 18.285



96, 0.863, 18.994



76, 0.317, 74.248



40, 0.396, 18.925



32, 72.758, 39.710



3, 12.223, 19.593



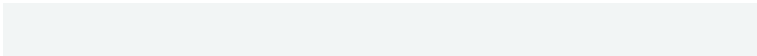


# Inverse Universe

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



76, 0.366, 201.089



96, 0.855, 200.374



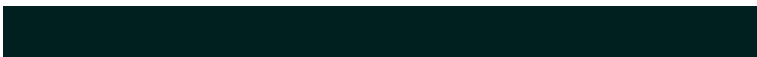
76, 0.330, 256.544



40, 0.392, 200.444



59, 34.898, 196.882



9, 11.611, 197.134



# Previews

## White Background



This preview shows how the CIELCh color 76, 0.371, 18.022 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 76, 0.371, 18.022 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

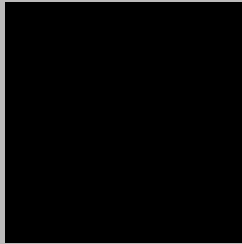
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

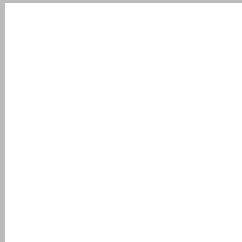
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 76, 0.371, 18.022**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 76, 0.371, 18.022.



This preview shows how white text looks on a background with the CIELCh color 76, 0.371, 18.022.

# 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

76, 0.371, 18.022

### Protanopia

76, 1.942, 3.230

### Deuteranopia

76, 9.775, 357.620



**Tritanopia**  
76, 8.314, 303.455

# Trichromacy



## Original Color

76, 0.371, 18.022

## Protanomaly

76, 1.588, 359.410

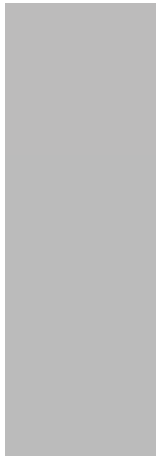
## Deuteranomaly

76, 6.573, 355.780

## Tritanomaly

76, 4.991, 303.286

# Monochromacy



## Original Color

76, 0.371, 18.022

## Achromatopsia

76, 0.009, 296.813

## Achromatomaly

76, 0.009, 296.813



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 76, 0.371, 18.022 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(188, 187, 187)` looks like.

```
.text, #text, p{  
    color:rgb(188, 187, 187)  
}
```

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(188, 187, 187) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(188, 187, 187) }
```

## Border

The CSS property to change the border of an element to CIELCh 76, 0.371, 18.022 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(188, 187, 187) }
```

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

```
.border{ border-color:rgb(188, 187, 187) }
```

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

Here you see how a box with a 4 pixel `rgb(188, 187, 187)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(188, 187, 187); -webkit-box-  
shadow:4px 4px 4px 4px rgb(188, 187, 187);  
box-shadow:4px 4px 4px 4px rgb(188, 187,  
187) }
```

# Background

The CSS property to change the background color of an element to CIELCh 76, 0.371, 18.022 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(188, 187, 187) }
```

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

```
.background{ background-color: rgb(188,  
187, 187) }
```

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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