

# Converting Colors

CIELCh(77, 0.005, 26.377)

Have a look what the booklet for  
CIELCh(77, 0.005, 26.377) contains.

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# Color

**CIELCh(77, 0.009, 296.813)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BEBEBE
RGB	190, 190, 190
RGB Percent	75%, 75%, 75%
CMY	0.2546, 0.2546, 0.2546
CMYK	0.00, 0.00, 0.00, 0.25
HSL	113°, 0%, 75%
HSV	113°, 0%, 75%
XYZ	48.9809, 51.5317, 56.1177
YIQ	190.0000, -0.0000, -0.0000

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
<b>RYB</b>	190, 190, 190
Decimal	12500670
CIELab	77.00, 0.00, -0.01
CIELCh	77, 0.009, 296.813
Yxy	51.5317, 0.3127, 0.3290
Android (android.graphics.Color)	4290690750 (0xFFBEBEBE)
YUV	190.0000, 0.0000, 0.0000
Hunter-Lab	71.7856, -3.8304, 3.9005

# Details

The CIELCh color  $77, 0.009, 296.813$  is a light color, and the websafe version is hex `CCCCCC`, and the color name is [gray \(x11 gray\)](#). A complement of this color would be  $77, 0.012, 301.823$ , and the grayscale version is  $77, 0.009, 296.813$ .

A 20% lighter version of the original color is  $97, 0.011, 296.813$ , and  $57, 0.007, 296.813$  is the 20% darker color. If you saturate the color by 10%, you get  $75, 12.069, 140.742$ , and if you desaturate by 10%, it is  $79, 11.888, 321.639$ .

# Distribution



- Red (75%)
- Green (75%)
- Blue (75%)



- Red (75%)
- Yellow (75%)
- Blue (75%)



- Cyan (0%)
- Magenta (0%)
- Yellow (0%)
- Black (25%)



- Cyan (25%)
- Magenta (25%)
- Yellow (25%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 77, 0.009, 296.813 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 77, 0.009, 296.813 by changing the saturation by 10% instead.



■ 77, 0.009, 296.813

■ 77, 0.009, 296.813

100, 0.009,  
296.813

■ 67, 0.009, 296.813

■ 97, 0.009, 296.813

■ 57, 0.009, 296.813

■ 47, 0.009, 296.813

■ 37, 0.009, 296.813

■ 27, 0.009, 296.813

■ 17, 0.009, 296.813

■ 7, 0.009, 296.813

■ 0, 0.009, 296.813

■ 77, 0.009, 296.813

■ 77, 0.009, 296.813

75, 12.069,  
140.742

79, 11.888,  
321.639

74, 24.236,  
140.149

81, 23.510,  
322.015

72, 36.355,  
139.478

83, 34.829,  
322.330

71, 48.232,  
138.728

85, 40.712,  
325.837

70, 59.609,  
137.918

69, 70.149,  
137.091

68, 79.424,  
136.327

68, 86.932,  
135.743

68, 92.199,

135.467

# Harmonies

# Complementary

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



77, 0.009, 296.813



77, 0.012, 301.823

# Rectangle

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



77, 0.009, 296.813



77, 0.009, 346.813



77, 0.009, 116.813



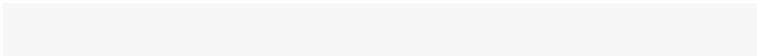
77, 0.009, 166.813

# Sweetspot

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



77, 0.007, 288.684



97, 0.011, 296.813



77, 0.008, 299.827



52, 0.007, 296.813



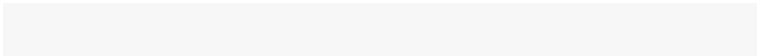
99, 0.012, 296.813

# Same Dimension

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



77, 0.007, 288.684



97, 0.011, 296.813



77, 0.008, 287.616



40, 0.006, 296.813



57, 83.047, 135.360



9, 21.068, 142.138



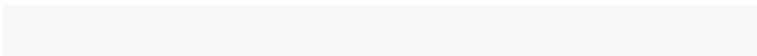


# Inverse Universe

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



77, 0.012, 301.823



97, 0.011, 296.813



77, 0.011, 303.496



40, 0.006, 296.813



34, 81.522, 323.761

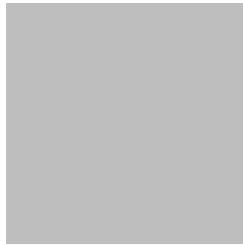


3, 20.265, 320.324



# Previews

## White Background



This preview shows how the CIELCh color 77, 0.009, 296.813 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 77, 0.009, 296.813 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

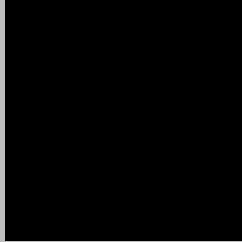
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

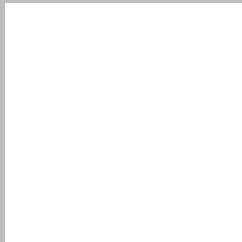
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 77, 0.009, 296.813**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 77, 0.009, 296.813.

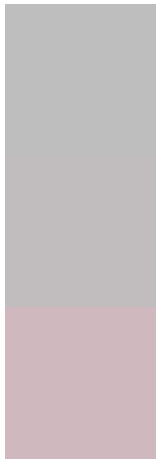


This preview shows how white text looks on a background with the CIELCh color 77, 0.009, 296.813.

# 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

77, 0.009, 296.813

### Protanopia

77, 1.584, 359.402

### Deuteranopia

77, 9.746, 357.603



**Tritanopia**  
77, 8.215, 300.996



# Trichromacy



## Original Color

77, 0.009, 296.813

## Protanomaly

77, 1.242, 353.469

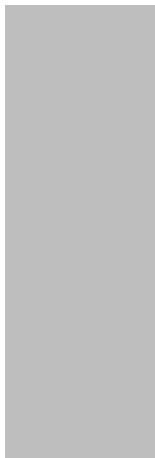
## Deuteranomaly

77, 6.212, 354.309

## Tritanomaly

77, 4.905, 299.142

# Monochromacy



## Original Color

77, 0.009, 296.813

## Achromatopsia

77, 0.009, 296.813

## Achromatomaly

77, 0.009, 296.813

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 77, 0.009, 296.813 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(190, 190, 190)` looks like.

```
.text, #text, p{  
    color:rgb(190, 190, 190)  
}
```

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(190, 190, 190) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(190, 190, 190) }
```

## Border

The CSS property to change the border of an element to CIELCh 77, 0.009, 296.813 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(190, 190, 190) }
```

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

```
.border{ border-color:rgb(190, 190, 190) }
```

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

Here you see how a box with a 4 pixel `rgb(190, 190, 190)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(190, 190, 190); -webkit-box-shadow:4px 4px 4px 4px rgb(190, 190, 190); box-shadow:4px 4px 4px 4px rgb(190, 190, 190) }
```

# Background

The CSS property to change the background color of an element to CIELCh 77, 0.009, 296.813 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(190, 190, 190) }
```

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

```
.background{ background-color: rgb(190,  
190, 190) }
```

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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