

# Converting Colors

CIELCh(74, 2.504, 33.287)

Have a look what the booklet for  
CIELCh(74, 2.504, 33.287) contains.

<b>CIELCh(74, 2.490, 45.031)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	11
<i><b>Previews</b></i> .....	20
<i><b>Color Blindness Simulation</b></i> .....	23
<i><b>CSS Examples</b></i> .....	26

# **Color**

**CIELCh(74, 2.490, 45.031)**

# Conversions

## Conversions Part 1

Format	Color
Hex	BBB5B3
RGB	187, 181, 179
RGB Percent	73%, 71%, 70%
CMY	0.2678, 0.2913, 0.2991
CMYK	0.00, 0.03, 0.04, 0.27
HSL	15°, 6%, 72%
HSV	15°, 4%, 73%
XYZ	44.9975, 46.7039, 49.1403
YIQ	182.5660, 4.2180, 0.6500

# Conversions

## Conversions Part 2

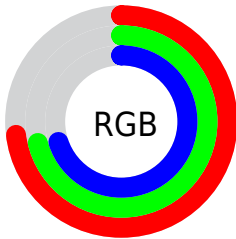
<b>Format</b>	<b>Color</b>
<b>RYB</b>	187, 182, 179
Decimal	12301747
CIELab	74.00, 1.76, 1.76
CIELCh	74, 2.490, 45.031
Yxy	46.7039, 0.3195, 0.3316
Android (android.graphics.Color)	4290491827 (0xFFBBB5B3)
YUV	182.5660, -1.7580, 3.8886
Hunter-Lab	68.3403, -2.0651, 5.2056

# Details

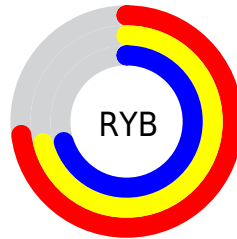
The CIELCh color  $74, 2.490, 45.031$  is a light color, and the websafe version is hex `CCCCCC`. A complement of this color would be  $75, 2.434, 225.876$ , and the grayscale version is  $74, 0.009, 296.813$ .

A 20% lighter version of the original color is  $94, 2.361, 45.014$ , and  $54, 2.663, 45.020$  is the 20% darker color. If you saturate the color by 10%, you get  $70, 8.638, 44.830$ , and if you desaturate by 10%, it is  $78, 3.207, 225.893$ .

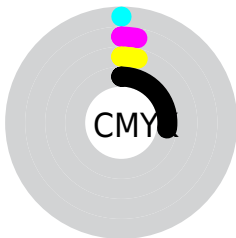
# Distribution



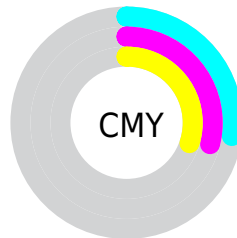
- Red (73%)
- Green (71%)
- Blue (70%)



- Red (73%)
- Yellow (71%)
- Blue (70%)



- Cyan (0%)
- Magenta (3%)
- Yellow (4%)
- Black (27%)



- Cyan (27%)
- Magenta (29%)
- Yellow (30%)
- Black (14%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 74, 2.490, 45.031 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 74, 2.490, 45.031 by changing the saturation by 10% instead.



 74, 2.490, 45.031       74, 2.490, 45.031

 100, 2.490, 45.031       64, 2.490, 45.031

 94, 2.490, 45.031       54, 2.490, 45.031

 44, 2.490, 45.031

 34, 2.490, 45.031

 24, 2.490, 45.031

 14, 2.490, 45.031

 4, 2.490, 45.031

 0, 2.490, 45.031

 74, 2.490, 45.031       74, 2.490, 45.031

70, 8.638, 44.830

78, 3.207, 225.893

66, 15.285, 44.548

82, 8.500, 226.295

62, 22.472, 44.364

87, 13.438,  
226.802

58, 30.223, 44.316

91, 18.063,  
227.336

55, 38.528, 44.429

51, 47.312, 44.712

95, 20.708,  
204.329

48, 56.375, 45.116

96, 22.061,  
198.058

45, 65.246, 45.470

43, 72.910, 45.330

# Harmonies

# Complementary

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



74, 2.490, 45.031



75, 2.434, 225.876

# Rectangle

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



74, 2.490, 45.031



74, 2.490, 95.031



74, 2.490, 225.031



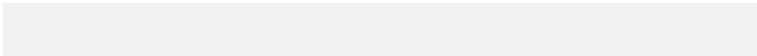
74, 2.490, 275.031

# Sweetspot

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



74, 2.490, 45.080



95, 0.707, 44.562



74, 4.433, 332.543



51, 0.405, 44.518



98, 0.011, 296.813



51, 0.007, 296.813

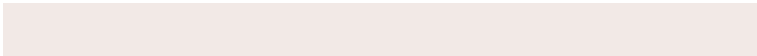


# Same Dimension

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



74, 2.490, 45.080



93, 3.602, 45.078



75, 3.301, 96.683



39, 2.004, 45.072



36, 67.544, 45.609



4, 10.548, 36.435





# Inverse Universe

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



75, 2.434, 225.876



94, 3.504, 225.886



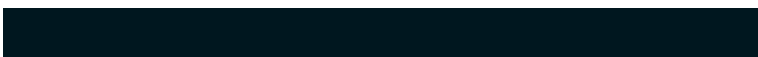
74, 3.326, 277.790



39, 1.943, 225.898



46, 31.918, 245.720



6, 9.489, 237.377



# Previews

## White Background



This preview shows how the CIELCh color 74, 2.490, 45.031 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 74, 2.490, 45.031 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

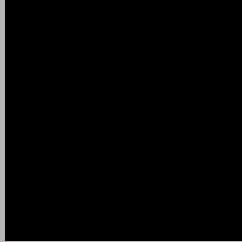
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

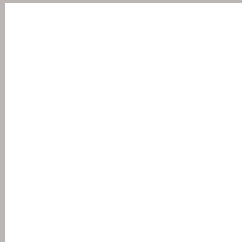
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 74, 2.490, 45.031

## Background



This preview shows how black text looks on a background with the CIELCh color 74, 2.490, 45.031.

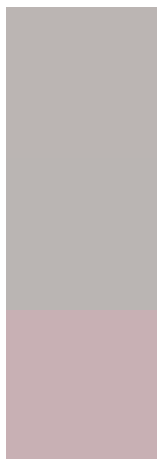


This preview shows how white text looks on a background with the CIELCh color 74, 2.490, 45.031.

# 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


74, 2.490, 45.031

### Protanopia

74, 2.154, 49.343

### Deuteranopia

74, 9.370, 6.886



**Tritanopia**  
74, 8.464, 316.464



# Trichromacy



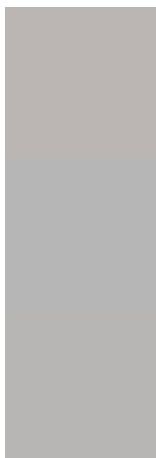
**Original Color**  
74, 2.490, 45.031

**Protanomaly**  
74, 2.154, 49.343

**Deuteranomaly**  
74, 6.525, 10.383

**Tritanomaly**  
74, 5.276, 324.626

# Monochromacy



**Original Color**  
74, 2.490, 45.031

**Achromatopsia**  
74, 0.009, 296.813

**Achromatomaly**  
74, 0.912, 55.069

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 74, 2.490, 45.031 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(187, 181, 179)` looks like.

```
.text, #text, p{  
    color:rgb(187, 181, 179)  
}
```

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(187, 181, 179) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(187, 181, 179) }
```

## Border

The CSS property to change the border of an element to CIELCh 74, 2.490, 45.031 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(187, 181, 179) }
```

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

```
.border{ border-color:rgb(187, 181, 179) }
```

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

Here you see how a box with a 4 pixel `rgb(187, 181, 179)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(187, 181, 179); -webkit-box-  
shadow:4px 4px 4px 4px rgb(187, 181, 179);  
box-shadow:4px 4px 4px 4px rgb(187, 181,  
179) }
```

# Background

The CSS property to change the background color of an element to CIELCh 74, 2.490, 45.031 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(187, 181, 179) }
```

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

```
.background{ background-color: rgb(187,  
181, 179) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor