

# Converting Colors

CIELCh(78, 73.922, 75.670)

Have a look what the booklet for  
CIELCh(78, 73.922, 75.670) contains.

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# **Color**

**CIELCh(78, 74.001, 75.987)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFB230
RGB	255, 178, 48
RGB Percent	100%, 70%, 19%
CMY	0.0007, 0.3026, 0.8125
CMYK	0.00, 0.30, 0.81, 0.00
HSL	38°, 100%, 59%
HSV	38°, 81%, 100%
XYZ	57.5878, 53.2120, 10.0116
YIQ	186.2030, 87.6220, -24.1060

# Conversions

## Conversions Part 2

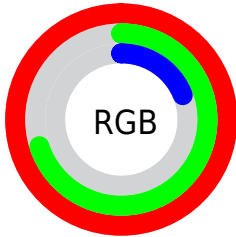
Format	Color
R <sub>Y</sub> B	171, 255, 48
Decimal	16757296
CIE Lab	78.00, 17.92, 71.80
CIE LCh	78, 74.001, 75.987
Yxy	53.2120, 0.4767, 0.4405
Android (android.graphics.Color)	4294947376 (0xFFFFB230)
YUV	186.2030, -68.1341, 60.3350
Hunter-Lab	72.9466, 13.2606, 42.9253

# Details

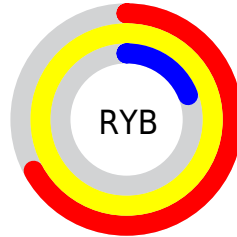
The CIELCh color **78, 74.001, 75.987** is a light color, and the websafe version is hex **FF9900**. The color can be described as light washed orange. A complement of this color would be **54, 74.756, 287.865**, and the grayscale version is **76, 0.009, 296.813**.

A 20% lighter version of the original color is **92, 64.292, 97.137**, and **58, 66.898, 73.751** is the 20% darker color. If you saturate the color by 10%, you get **76, 79.710, 73.744**, and if you desaturate by 10%, it is **80, 66.126, 77.827**.

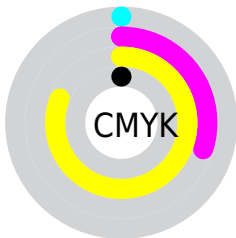
# Distribution



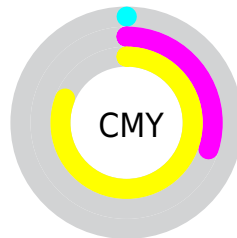
- Red (100%)
- Green (70%)
- Blue (19%)



- Red (67%)
- Yellow (100%)
- Blue (19%)



- Cyan (0%)
- Magenta (30%)
- Yellow (81%)
- Black (0%)



- Cyan (0%)
- Magenta (30%)
- Yellow (81%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 78, 74.001, 75.987 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 78, 74.001, 75.987 by changing the saturation by 10% instead.



78, 74.001, 75.987

78, 74.001, 75.987

100, 74.001,  
75.987

68, 74.001, 75.987

98, 74.001, 75.987

58, 74.001, 75.987

48, 74.001, 75.987

38, 74.001, 75.987

28, 74.001, 75.987

18, 74.001, 75.987

8, 74.001, 75.987

0, 74.001, 75.987

78, 74.001, 75.987

78, 74.001, 75.987

76, 79.710, 73.744

80, 66.126, 77.827

74, 82.551, 71.330

83, 57.082, 79.446

85, 47.551, 80.954

88, 37.921, 82.398

91, 28.389, 83.797

94, 19.050, 85.154

97, 9.941, 86.460

100, 1.069, 87.469

100, 0.066,  
209.471

# Harmonies

# Complementary

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



78, 74.001, 75.987



54, 74.756, 287.865

# Rectangle

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



78, 74.001, 75.987



78, 74.001, 125.987



78, 74.001, 255.987



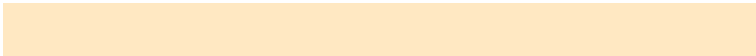
78, 74.001, 305.987

# Sweetspot

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



78, 74.000, 75.990



93, 21.624, 84.783



57, 78.706, 5.471



49, 14.925, 84.300



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



78, 74.000, 75.990



74, 81.716, 72.168



95, 91.293, 109.578



52, 5.021, 86.679



57, 66.494, 71.935



18, 27.639, 74.641





# Inverse Universe

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



54, 74.756, 287.865



47, 90.710, 293.987



39, 118.320, 305.392



50, 4.998, 269.237



35, 74.133, 294.399



9, 29.743, 288.924



# Previews

## White Background



This preview shows how the CIELCh color 78, 74.001, 75.987 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 CIELCh color 78, 74.001, 75.987 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 78, 74.001, 75.987

## Background



This preview shows how black text looks on a background with the CIELCh color 78, 74.001, 75.987.



This preview shows how white text looks on a background with the CIELCh color 78, 74.001, 75.987.

# 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

78, 74.001, 75.987

### Protanopia

78, 69.505, 95.357

### Deuteranopia

78, 72.838, 81.997



**Tritanopia**  
78, 33.414, 13.422



# Trichromacy



**Original Color**  
78, 74.001, 75.987

**Protanomaly**  
78, 70.175, 87.913

**Deuteranomaly**  
78, 73.090, 79.820

**Tritanomaly**  
78, 41.930, 52.390

# Monochromacy



**Original Color**  
78, 74.001, 75.987

**Achromatopsia**  
76, 0.009, 296.813

**Achromatomaly**  
76, 27.824, 83.120

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 78, 74.001, 75.987 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(255, 178, 48)` looks like.

```
.text, #text, p{  
    color:rgb(255, 178, 48)  
}
```

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(255, 178, 48) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 178, 48) }
```

## Border

The CSS property to change the border of an element to CIELCh 78, 74.001, 75.987 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(255, 178, 48) }
```

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

```
.border{ border-color:rgb(255, 178, 48) }
```

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

Here you see how a box with a 4 pixel rgb(255, 178, 48) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 178, 48); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 178, 48);  
box-shadow:4px 4px 4px 4px rgb(255, 178,  
48) }
```

# Background

The CSS property to change the background color of an element to CIELCh 78, 74.001, 75.987 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 178, 48) }
```

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

```
.background{ background-color: rgb(255,  
178, 48) }
```

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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