

# Converting Colors

CIELCh(80, 74.178, 82.080)

Have a look what the booklet for  
CIELCh(80, 74.178, 82.080) contains.

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# Color

**CIELCh(80, 74.393, 82.241)**

# Conversions

Conversions Part 1	
Format	Color
Hex	FABD2F
RGB	250, 189, 47
RGB Percent	98%, 74%, 18%
CMY	0.0213, 0.2603, 0.8174
CMYK	0.00, 0.24, 0.81, 0.02
HSL	42°, 95%, 58%
HSV	42°, 81%, 98%
XYZ	57.8927, 56.6813, 10.5311
YIQ	191.0510, 81.9380, -31.2300

# Conversions

## Conversions Part 2

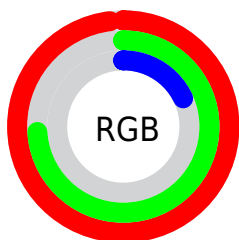
Format	Color
<a href="#">RYB</a>	<a href="#">134, 250, 47</a>
Decimal	<a href="#">16432431</a>
CIELab	<a href="#">80.00, 10.04, 73.71</a>
CIELCh	<a href="#">80, 74.393, 82.241</a>
Yxy	<a href="#">56.6813, 0.4628, 0.4531</a>
Android (android.graphics.Color)	<a href="#">4294622511</a> (0xFFFFABD2F)
YUV	<a href="#">191.0510, -71.0171, 51.6983</a>
Hunter-Lab	<a href="#">75.2870, 5.5072, 44.4074</a>

# Details

The CIELCh color **80, 74.393, 82.241** is a light color, and the websafe version is hex **FFCC33**. The color can be described as light washed orange. A complement of this color would be **50, 82.536, 292.597**, and the grayscale version is **77, 0.009, 296.813**.

A 20% lighter version of the original color is **95, 67.804, 101.346**, and **60, 66.177, 80.935** is the 20% darker color. If you saturate the color by 10%, you get **78, 79.302, 80.263**, and if you desaturate by 10%, it is **82, 67.149, 83.936**.

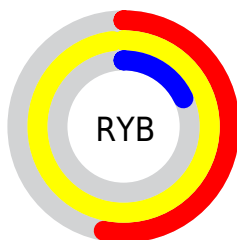
# Distribution



Red (98%)

Green (74%)

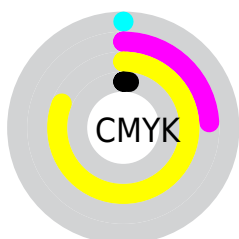
Blue (18%)



Red (53%)

Yellow (98%)

Blue (18%)

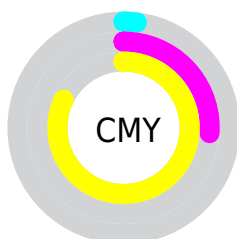


Cyan (0%)

Magenta (24%)

Yellow (81%)

Black (2%)



Cyan (2%)

Magenta (26%)

Yellow (82%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 80, 74.393, 82.241 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 80, 74.393, 82.241 by changing the saturation by 10% instead.



 80, 74.393, 82.241

 80, 74.393, 82.241

 100, 74.393,  
82.241

 70, 74.393, 82.241

 60, 74.393, 82.241

 50, 74.393, 82.241

 40, 74.393, 82.241

 30, 74.393, 82.241

 20, 74.393, 82.241


 10, 74.393, 82.241

 0, 74.393, 82.241

 80, 74.393, 82.241

 80, 74.393, 82.241

 78, 79.302, 80.263

 82, 67.149, 83.936

 77, 81.426, 78.240

 84, 58.491, 85.471

 86, 49.117, 86.921


 88, 39.452, 88.319

 91, 29.735, 89.677

 93, 20.092, 90.994

 95, 10.584, 92.263

 98, 1.235, 93.314

 100, 1.883,  
199.638

# Harmonies

# Complementary

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



80, 74.393, 82.241



50, 82.536, 292.597

# Rectangle

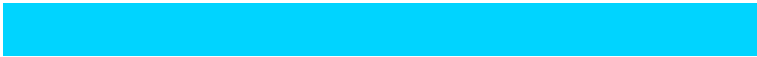
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



80, 74.393, 82.241



80, 74.393, 132.241



80, 74.393, 262.241



80, 74.393, 312.241

# Sweetspot

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



80, 74.392, 82.244



94, 23.038, 90.645



55, 77.640, 11.165



49, 15.872, 90.176



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



80, 74.392, 82.244



78, 82.329, 78.684



93, 90.758, 113.015



51, 5.298, 92.491



59, 66.051, 78.725



19, 27.433, 81.479





# Inverse Universe

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



50, 82.536, 292.597



43, 102.823, 298.393



39, 115.724, 306.262



49, 5.315, 274.944



31, 82.191, 298.396



7, 32.116, 293.060



# Previews

## White Background



This preview shows how the CIELCh color 80, 74.393, 82.241 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 80, 74.393, 82.241 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 80, 74.393, 82.241

## Background



This preview shows how black text looks on a background with the CIELCh color 80, 74.393, 82.241.



This preview shows how white text looks on a background with the CIELCh color 80, 74.393, 82.241.

# 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

80, 74.393, 82.241

### Protanopia

80, 72.318, 95.230

### Deuteranopia

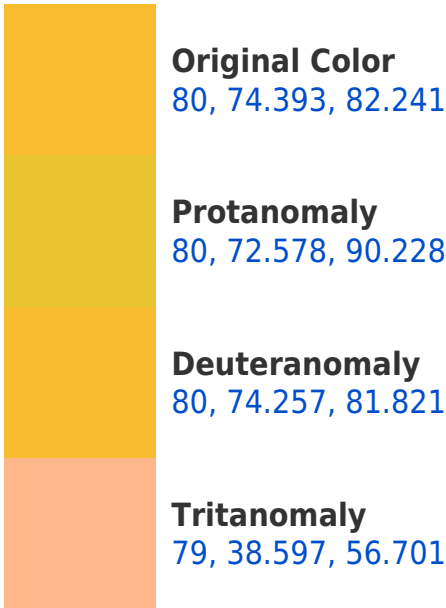
80, 74.257, 81.821



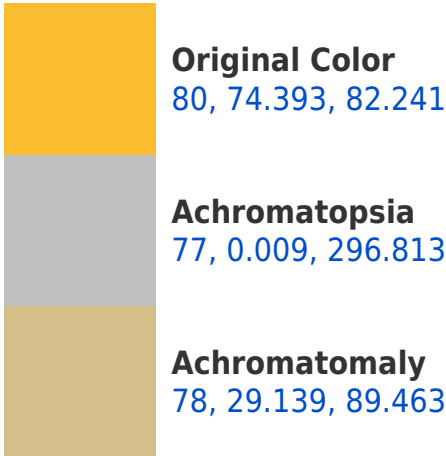
**Tritanopia**  
80, 30.573, 9.252



# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 80, 74.393, 82.241 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(250, 189, 47)` looks like.

```
.text, #text, p{  
    color:rgb(250, 189, 47)  
}
```

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(250, 189, 47) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(250, 189, 47) }
```

## Border

The CSS property to change the border of an element to CIELCh 80, 74.393, 82.241 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(250, 189, 47) }
```

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

```
.border{ border-color:rgb(250, 189, 47) }
```

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

Here you see how a box with a 4 pixel `rgb(250, 189, 47)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(250, 189, 47); -webkit-box-  
shadow:4px 4px 4px 4px rgb(250, 189, 47);  
box-shadow:4px 4px 4px 4px rgb(250, 189,  
47) }
```

# Background

The CSS property to change the background color of an element to CIELCh 80, 74.393, 82.241 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(250, 189, 47) }
```

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

```
.background{ background-color: rgb(250,  
189, 47) }
```

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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