

# Converting Colors

CIELCh(88, 80.321, 92.180)

Have a look what the booklet for  
CIELCh(88, 80.321, 92.180) contains.

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**Color**

**CIELCh(88, 80.222, 92.267)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFDB31
RGB	255, 219, 49
RGB Percent	100%, 86%, 19%
CMY	0.0005, 0.1416, 0.8083
CMYK	0.00, 0.14, 0.81, 0.00
HSL	50°, 100%, 60%
HSV	50°, 81%, 100%
XYZ	67.0515, 72.0653, 13.2667
YIQ	210.3840, 76.0260, -45.2380

# Conversions

## Conversions Part 2

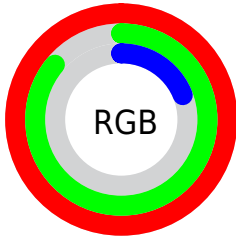
Format	Color
R <sub>Y</sub> B	93, 255, 49
Decimal	16767793
CIE Lab	88.00, -3.17, 80.16
CIE LCh	88, 80.222, 92.267
Yxy	72.0653, 0.4400, 0.4729
Android (android.graphics.Color)	4294957873 (0xFFFFDB31)
YUV	210.3840, -79.5623, 39.1282
Hunter-Lab	84.8913, -7.5711, 50.1581

# Details

The CIELCh color **88, 80.222, 92.267** is a light color, and the websafe version is hex **FFCC00**. The color can be described as light washed yellow. A complement of this color would be **45, 99.384, 298.714**, and the grayscale version is **85, 0.010, 296.813**.

A 20% lighter version of the original color is **98, 69.574, 104.857**, and **68, 71.138, 91.661** is the 20% darker color. If you saturate the color by 10%, you get **87, 84.646, 90.997**, and if you desaturate by 10%, it is **89, 73.223, 93.493**.

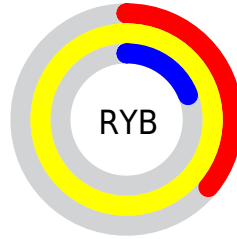
# Distribution



Red (100%)

Green (86%)

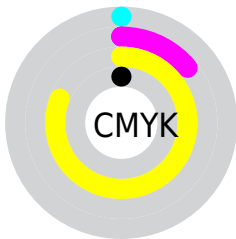
Blue (19%)



Red (36%)

Yellow (100%)

Blue (19%)

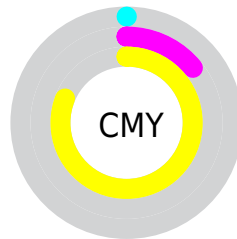


Cyan (0%)

Magenta (14%)

Yellow (81%)

Black (0%)



Cyan (0%)

Magenta (14%)

Yellow (81%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 88, 80.222, 92.267 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 88, 80.222, 92.267 by changing the saturation by 10% instead.



 88, 80.222, 92.267

 88, 80.222, 92.267

 100, 80.222,  
92.267

 78, 80.222, 92.267

 68, 80.222, 92.267

 58, 80.222, 92.267

 48, 80.222, 92.267

 38, 80.222, 92.267

 28, 80.222, 92.267

 18, 80.222, 92.267

 8, 80.222, 92.267

 0, 80.222, 92.267

88, 80.222, 92.267

88, 80.222, 92.267

87, 84.646, 90.997

89, 73.223, 93.493

86, 86.311, 89.749

91, 64.442, 94.704

92, 54.583, 95.915

93, 44.132, 97.124

95, 33.393, 98.324

96, 22.544, 99.505

98, 11.686,  
100.655

100, 0.878,  
101.597

100, 0.042,  
215.500

# Harmonies

# Complementary

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



88, 80.222, 92.267



45, 99.384, 298.714

# Rectangle

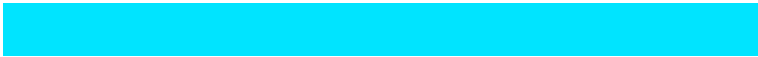
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



88, 80.222, 92.267



88, 80.222, 142.267



88, 80.222, 272.267



88, 80.222, 322.267

# Sweetspot

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



88, 80.221, 92.270



96, 26.002, 99.133



56, 81.538, 22.009



51, 17.868, 98.712



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



88, 80.221, 92.270



86, 85.920, 90.161



93, 94.670, 119.341



52, 6.136, 100.803



66, 69.650, 90.006



22, 31.034, 91.831





# Inverse Universe

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



45, 99.384, 298.714



37, 118.992, 303.034



43, 115.288, 308.467



49, 6.219, 283.026



26, 96.939, 303.275



6, 38.550, 298.306



# Previews

## White Background



This preview shows how the CIELCh color 88, 80.222, 92.267 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 88, 80.222, 92.267 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 88, 80.222, 92.267

## Background



This preview shows how black text looks on a background with the CIELCh color 88, 80.222, 92.267.



This preview shows how white text looks on a background with the CIELCh color 88, 80.222, 92.267.

# 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

88, 80.222, 92.267

### Protanopia

88, 80.125, 95.100

### Deuteranopia

88, 35.098, 79.249



**Tritanopia**  
88, 17.839, 2.137



# Trichromacy



**Original Color**  
88, 80.222, 92.267

**Protanomaly**  
88, 80.103, 93.836

**Deuteranomaly**  
88, 53.776, 87.993

**Tritanomaly**  
88, 33.510, 77.256

# Monochromacy



**Original Color**  
88, 80.222, 92.267

**Achromatopsia**  
84, 0.010, 296.813

**Achromatomaly**  
85, 32.644, 98.148

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 88, 80.222, 92.267 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, 219, 49)` looks like.

```
.text, #text, p{  
    color:rgb(255, 219, 49)  
}
```

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, 219, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 219, 49) }
```

## Border

The CSS property to change the border of an element to CIELCh 88, 80.222, 92.267 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, 219, 49) }
```

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

```
.border{ border-color:rgb(255, 219, 49) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 219, 49)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 219, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 219, 49);  
box-shadow:4px 4px 4px 4px rgb(255, 219,  
49) }
```

# Background

The CSS property to change the background color of an element to CIELCh 88, 80.222, 92.267 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 219, 49) }
```

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

```
.background{ background-color: rgb(255,  
219, 49) }
```

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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