

# Converting Colors

CIELCh(88, 66.037, 90.870)

Have a look what the booklet for  
CIELCh(88, 66.037, 90.870) contains.

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# **Color**

**CIELCh(88, 66.090, 90.828)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFDA59
RGB	255, 218, 89
RGB Percent	100%, 85%, 35%
CMY	0.0003, 0.1454, 0.6513
CMYK	0.00, 0.15, 0.65, 0.00
HSL	47°, 100%, 67%
HSV	47°, 65%, 100%
XYZ	68.0590, 72.0653, 19.7571
YIQ	214.3570, 63.4610, -32.2750

# Conversions

## Conversions Part 2

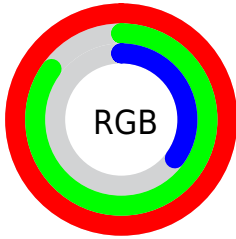
Format	Color
<a href="#">RYB</a>	<a href="#">137, 255, 89</a>
Decimal	<a href="#">16767577</a>
CIELab	<a href="#">88.00, -0.96, 66.08</a>
CIElCh	<a href="#">88, 66.090, 90.828</a>
Yxy	<a href="#">72.0653, 0.4257, 0.4507</a>
Android (android.graphics.Color)	<a href="#">4294957657 (0xFFFFDA59)</a>
YUV	<a href="#">214.3570, -61.8010, 35.6439</a>
Hunter-Lab	<a href="#">84.8913, -5.4527, 45.6251</a>

# Details

The CIELCh color **88, 66.090, 90.828** is a light color, and the websafe version is hex **FFCC33**. The color can be described as light muted yellow. A complement of this color would be **56, 73.398, 291.733**, and the grayscale version is **86, 0.010, 296.813**.

A 20% lighter version of the original color is **98, 54.921, 105.974**, and **68, 65.952, 90.514** is the 20% darker color. If you saturate the color by 10%, you get **86, 74.245, 89.457**, and if you desaturate by 10%, it is **90, 56.718, 92.159**.

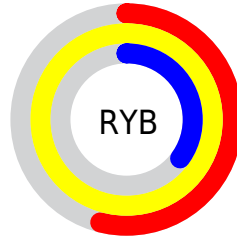
# Distribution



Red (100%)

Green (85%)

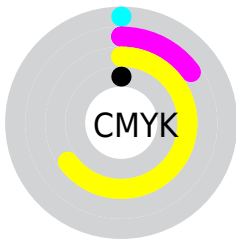
Blue (35%)



Red (54%)

Yellow (100%)

Blue (35%)

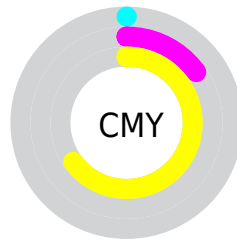


Cyan (0%)

Magenta (15%)

Yellow (65%)

Black (0%)



Cyan (0%)

Magenta (15%)

Yellow (65%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 88, 66.090, 90.828 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, 66.090, 90.828 by changing the saturation by 10% instead.




 88, 66.090, 90.828

 88, 66.090, 90.828

 100, 66.090,  
90.828

 78, 66.090, 90.828

 68, 66.090, 90.828

 58, 66.090, 90.828

 48, 66.090, 90.828

 38, 66.090, 90.828

 28, 66.090, 90.828

 18, 66.090, 90.828

 8, 66.090, 90.828

 0, 66.090, 90.828

88, 66.090, 90.828

88, 66.090, 90.828

86, 74.245, 89.457

90, 56.718, 92.159

85, 80.383, 87.989

91, 46.696, 93.460

83, 83.707, 86.343

93, 36.375, 94.738

83, 84.475, 85.471

95, 25.957, 95.990

97, 15.556, 97.208

99, 5.231, 98.368

100, 0.031,  
221.262

# Harmonies

# Complementary

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



88, 66.090, 90.828



56, 73.398, 291.733

# Rectangle

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



88, 66.090, 90.828



88, 66.090, 140.828



88, 66.090, 270.828



88, 66.090, 320.828

# Sweetspot

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



88, 66.090, 90.831



96, 20.636, 96.618



62, 66.950, 11.878



51, 14.095, 96.274



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, 66.090, 90.831



86, 76.282, 89.046



94, 80.460, 117.002



52, 5.835, 97.871



64, 68.158, 85.817



21, 29.987, 88.070





# Inverse Universe

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



56, 73.398, 291.733



49, 89.730, 295.685



51, 94.879, 306.252



50, 5.893, 280.187



28, 92.068, 301.720



6, 36.777, 296.887



# Previews

## White Background



This preview shows how the CIELCh color 88, 66.090, 90.828 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, 66.090, 90.828 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, 66.090, 90.828**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 88, 66.090, 90.828.



This preview shows how white text looks on a background with the CIELCh color 88, 66.090, 90.828.

# 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, 66.090, 90.828

### Protanopia

88, 65.671, 95.349

### Deuteranopia

88, 33.717, 78.232



**Tritanopia**  
88, 17.839, 2.137



# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 88, 66.090, 90.828 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, 218, 89)` looks like.

```
.text, #text, p{  
    color:rgb(255, 218, 89)  
}
```

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, 218, 89) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 218, 89) }
```

## Border

The CSS property to change the border of an element to CIELCh 88, 66.090, 90.828 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, 218, 89) }
```

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

```
.border{ border-color:rgb(255, 218, 89) }
```

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

Here you see how a box with a 4 pixel rgb(255, 218, 89) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 218, 89); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 218, 89);  
box-shadow:4px 4px 4px 4px rgb(255, 218,  
89) }
```

# Background

The CSS property to change the background color of an element to CIELCh 88, 66.090, 90.828 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 218, 89) }
```

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

```
.background{ background-color: rgb(255,  
218, 89) }
```

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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