

# Converting Colors

CIELCh(89, 80.989, 62.370)

Have a look what the booklet for  
CIELCh(89, 80.989, 62.370) contains.

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# Color

**CIELCh(82, 63.130, 79.451)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFC153
RGB	255, 193, 83
RGB Percent	100%, 76%, 33%
CMY	0.0000, 0.2415, 0.6729
CMYK	0.00, 0.24, 0.67, 0.00
HSL	38°, 100%, 66%
HSV	38°, 67%, 100%
XYZ	62.1458, 60.2982, 16.6278
YIQ	198.9980, 72.2620, -21.0660

# Conversions

## Conversions Part 2

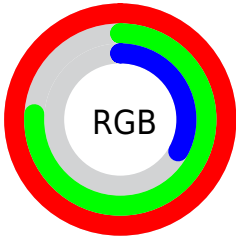
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	180, 255, 83
Decimal	16761171
CIE <sub>Lab</sub>	82.00, 11.56, 62.06
CIE <sub>LCh</sub>	82, 63.130, 79.451
Yxy	60.2982, 0.4469, 0.4336
Android (android.graphics.Color)	4294951251 (0xFFFFC153)
YUV	198.9980, -57.1870, 49.1138
Hunter-Lab	77.6519, 6.9649, 41.6605

# Details

The CIELCh color **82, 63.130, 79.451** is a light color, and the websafe version is hex **FFCC66**. The color can be described as light muted yellow. A complement of this color would be **61, 62.406, 283.756**, and the grayscale version is **81, 0.010, 296.813**.

A 20% lighter version of the original color is **96, 55.619, 103.351**, and **62, 63.033, 79.648** is the 20% darker color. If you saturate the color by 10%, you get **80, 71.393, 77.890**, and if you desaturate by 10%, it is **84, 53.762, 81.175**.

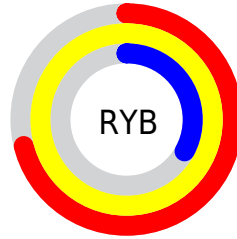
# Distribution



Red (100%)

Green (76%)

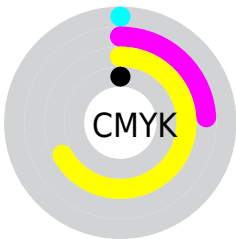
Blue (33%)



Red (71%)

Yellow (100%)

Blue (33%)

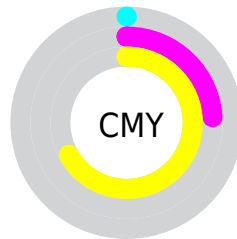


Cyan (0%)

Magenta (24%)

Yellow (67%)

Black (0%)



Cyan (0%)

Magenta (24%)

Yellow (67%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 82, 63.130, 79.451 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 82, 63.130, 79.451 by changing the saturation by 10% instead.



 82, 63.130, 79.451

 82, 63.130, 79.451

 100, 63.130,  
79.451

 72, 63.130, 79.451

 62, 63.130, 79.451

 52, 63.130, 79.451

 42, 63.130, 79.451

 32, 63.130, 79.451

 22, 63.130, 79.451

 12, 63.130, 79.451

 2, 63.130, 79.451

 0, 63.130, 79.451

82, 63.130, 79.451

82, 63.130, 79.451

80, 71.393, 77.890

84, 53.762, 81.175

77, 77.957, 75.860

87, 44.146, 82.651

75, 81.770, 73.305

90, 34.493, 84.074

75, 82.524, 72.564

92, 24.960, 85.453

95, 15.621, 86.789

98, 6.501, 88.061

100, 0.012,  
296.813

# Harmonies

# Complementary

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



82, 63.130, 79.451



61, 62.406, 283.756

# Rectangle

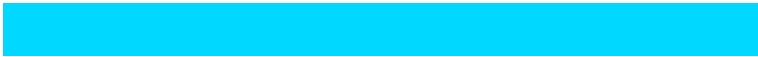
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



82, 63.130, 79.451



82, 63.130, 129.451



82, 63.130, 259.451



82, 63.130, 309.451

# Sweetspot

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



82, 63.032, 79.613



94, 18.127, 86.432



61, 69.335, 2.088



50, 12.411, 86.058



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



82, 63.032, 79.613



79, 74.092, 77.185



96, 80.870, 110.712



52, 5.083, 87.788



57, 66.453, 73.152



19, 27.779, 75.896





# Inverse Universe

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



61, 62.406, 283.756



54, 76.171, 288.704



48, 98.799, 303.675



50, 5.067, 270.333



34, 75.768, 295.202



9, 30.391, 289.841



# Previews

## White Background



This preview shows how the CIELCh color 82, 63.130, 79.451 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 82, 63.130, 79.451 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 82, 63.130, 79.451

## Background



This preview shows how black text looks on a background with the CIELCh color 82, 63.130, 79.451.



This preview shows how white text looks on a background with the CIELCh color 82, 63.130, 79.451.

# 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

82, 63.130, 79.451

### Protanopia

82, 59.904, 95.326

### Deuteranopia

82, 63.080, 80.304



**Tritanopia**  
82, 27.253, 8.435



# Trichromacy



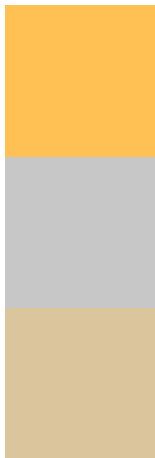
**Original Color**  
82, 63.130, 79.451

**Protanomaly**  
82, 60.217, 89.426

**Deuteranomaly**  
82, 63.080, 80.304

**Tritanomaly**  
82, 32.651, 51.823

# Monochromacy



**Original Color**  
82, 63.130, 79.451

**Achromatopsia**  
80, 0.010, 296.813

**Achromatomaly**  
80, 22.982, 85.692

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 82, 63.130, 79.451 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, 193, 83)` looks like.

```
.text, #text, p{  
    color:rgb(255, 193, 83)  
}
```

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, 193, 83) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 193, 83) }
```

## Border

The CSS property to change the border of an element to CIELCh 82, 63.130, 79.451 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, 193, 83) }
```

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

```
.border{ border-color:rgb(255, 193, 83) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 193, 83)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 193, 83); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 193, 83);  
box-shadow:4px 4px 4px 4px rgb(255, 193,  
83) }
```

# Background

The CSS property to change the background color of an element to CIELCh 82, 63.130, 79.451 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 193, 83) }
```

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

```
.background{ background-color: rgb(255,  
193, 83) }
```

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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