

# Converting Colors

CIELCh(81, 61.489, 77.089)

Have a look what the booklet for  
CIELCh(81, 61.489, 77.089) contains.

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# **Color**

**CIELCh(81, 61.320, 76.990)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFBD56
RGB	255, 189, 86
RGB Percent	100%, 74%, 34%
CMY	0.0000, 0.2579, 0.6619
CMYK	0.00, 0.26, 0.66, 0.00
HSL	37°, 100%, 67%
HSV	37°, 66%, 100%
XYZ	61.2635, 58.4711, 16.9060
YIQ	196.9920, 72.3990, -18.0410

# Conversions

## Conversions Part 2

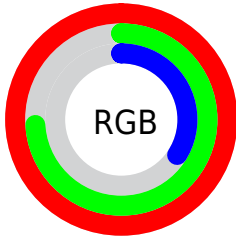
Format	Color
<a href="#">RYB</a>	194, 255, 86
Decimal	16760150
CIELab	81.00, 13.80, 59.75
CIELCh	81, 61.320, 76.990
Yxy	58.4711, 0.4484, 0.4279
Android (android.graphics.Color)	4294950230 (0xFFFFBD56)
YUV	196.9920, -54.7191, 50.8730
Hunter-Lab	76.4664, 9.1948, 40.4180

# Details

The CIELCh color **81, 61.320, 76.990** is a light color, and the websafe version is hex **FFCC66**. The color can be described as light muted orange. A complement of this color would be **63, 58.489, 280.951**, and the grayscale version is **80, 0.010, 296.813**.

A 20% lighter version of the original color is **95, 52.579, 101.636**, and **61, 61.266, 77.123** is the 20% darker color. If you saturate the color by 10%, you get **78, 69.953, 75.363**, and if you desaturate by 10%, it is **84, 51.856, 78.633**.

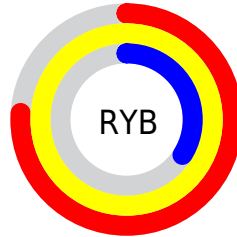
# Distribution



Red (100%)

Green (74%)

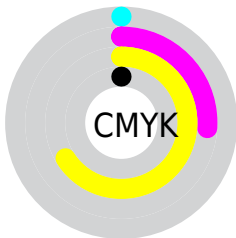
Blue (34%)



Red (76%)

Yellow (100%)

Blue (34%)

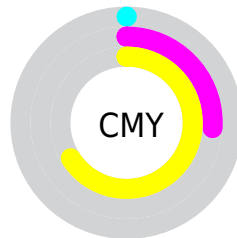


Cyan (0%)

Magenta (26%)

Yellow (66%)

Black (0%)



Cyan (0%)

Magenta (26%)

Yellow (66%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 81, 61.320, 76.990 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 81, 61.320, 76.990 by changing the saturation by 10% instead.



81, 61.320, 76.990

81, 61.320, 76.990

100, 61.320,  
76.990

71, 61.320, 76.990

61, 61.320, 76.990

51, 61.320, 76.990

41, 61.320, 76.990

31, 61.320, 76.990

21, 61.320, 76.990

11, 61.320, 76.990

1, 61.320, 76.990

0, 61.320, 76.990

81, 61.320, 76.990

81, 61.320, 76.990

78, 69.953, 75.363

84, 51.856, 78.633

76, 77.076, 73.330

86, 42.243, 80.104

74, 81.577, 70.730

89, 32.691, 81.524

73, 82.775, 69.632

92, 23.329, 82.903

95, 14.210, 84.239

98, 5.349, 85.503

100, 0.012,  
296.813

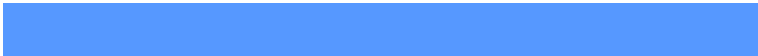
# Harmonies

# Complementary

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



81, 61.320, 76.990



63, 58.489, 280.951

# Rectangle

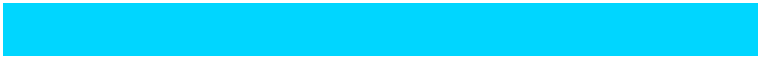
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



81, 61.320, 76.990



81, 61.320, 126.990



81, 61.320, 256.990



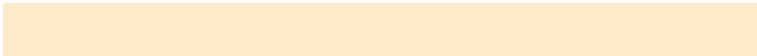
81, 61.320, 306.990

# Sweetspot

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



81, 61.262, 77.078



94, 17.654, 83.736



62, 68.961, 359.241



49, 12.094, 83.360



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



81, 61.262, 77.078



78, 72.158, 74.833



96, 79.596, 109.126



52, 4.939, 85.098



56, 66.609, 70.262



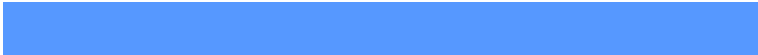
18, 27.468, 72.886





# Inverse Universe

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



63, 58.489, 280.951



57, 70.470, 285.656



48, 97.280, 302.868



50, 4.905, 267.673



35, 71.871, 293.226



9, 28.856, 287.597



# Previews

## White Background



This preview shows how the CIELCh color 81, 61.320, 76.990 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 81, 61.320, 76.990 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 81, 61.320, 76.990

## Background



This preview shows how black text looks on a background with the CIELCh color 81, 61.320, 76.990.



This preview shows how white text looks on a background with the CIELCh color 81, 61.320, 76.990.

# 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

81, 61.320, 76.990

### Protanopia

81, 57.686, 95.556

### Deuteranopia

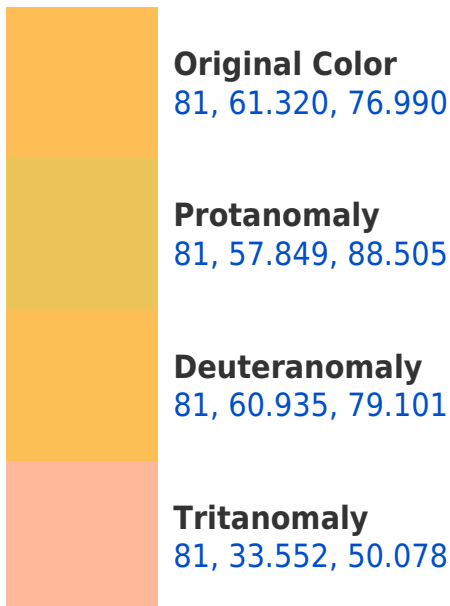
81, 60.675, 80.350



**Tritanopia**  
81, 28.417, 10.186



# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 81, 61.320, 76.990 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, 189, 86)` looks like.

```
.text, #text, p{  
    color:rgb(255, 189, 86)  
}
```

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, 189, 86) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 189, 86) }
```

## Border

The CSS property to change the border of an element to CIELCh 81, 61.320, 76.990 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, 189, 86) }
```

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

```
.border{ border-color:rgb(255, 189, 86) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 189, 86)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 189, 86); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 189, 86);  
box-shadow:4px 4px 4px 4px rgb(255, 189,  
86) }
```

# Background

The CSS property to change the background color of an element to CIELCh 81, 61.320, 76.990 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 189, 86) }
```

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

```
.background{ background-color: rgb(255,  
189, 86) }
```

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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