

# Converting Colors

CIELCh(78, 58.076, 68.282)

Have a look what the booklet for  
CIELCh(78, 58.076, 68.282) contains.

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# Color

**CIELCh(78, 57.604, 68.678)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FFB05C
RGB	255, 176, 92
RGB Percent	100%, 69%, 36%
CMY	0.0000, 0.3090, 0.6384
CMYK	0.00, 0.31, 0.64, 0.00
HSL	31°, 100%, 68%
HSV	31°, 64%, 100%
XYZ	58.8325, 53.2120, 17.3401
YIQ	190.0450, 74.0480, -9.3760

# Conversions

## Conversions Part 2

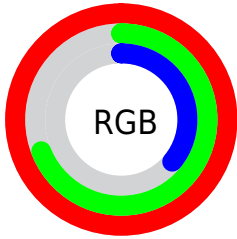
Format	Color
<a href="#">RYB</a>	<a href="#">245, 255, 92</a>
Decimal	<a href="#">16756828</a>
CIELab	<a href="#">78.00, 20.95, 53.66</a>
CIELCh	<a href="#">78, 57.604, 68.678</a>
Yxy	<a href="#">53.2120, 0.4547, 0.4113</a>
Android (android.graphics.Color)	<a href="#">4294946908</a> ( <a href="#">0xFFFFB05C</a> )
YUV	<a href="#">190.0450, -48.3362, 56.9655</a>
Hunter-Lab	<a href="#">72.9466, 16.3065, 36.9688</a>

# Details

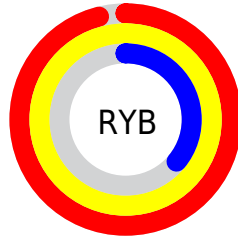
The CIELCh color **78, 57.604, 68.678** is a light color, and the websafe version is hex **FFCC66**. The color can be described as light muted orange. A complement of this color would be **68, 48.836, 271.280**, and the grayscale version is **77, 0.009, 296.813**.

A 20% lighter version of the original color is **92, 45.215, 94.637**, and **58, 57.726, 68.571** is the 20% darker color. If you saturate the color by 10%, you get **75, 67.098, 67.231**, and if you desaturate by 10%, it is **81, 47.743, 70.151**.

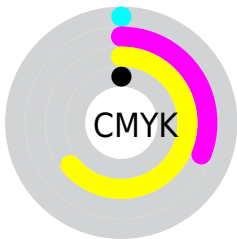
# Distribution



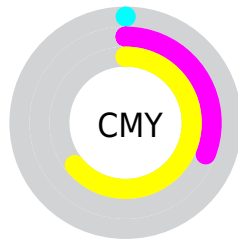
- Red (100%)
- Green (69%)
- Blue (36%)



- Red (96%)
- Yellow (100%)
- Blue (36%)



- Cyan (0%)
- Magenta (31%)
- Yellow (64%)
- Black (0%)



- Cyan (0%)
- Magenta (31%)
- Yellow (64%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 78, 57.604, 68.678 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 78, 57.604, 68.678 by changing the saturation by 10% instead.



 78, 57.604, 68.678

 78, 57.604, 68.678

 100, 57.604,  
68.678

 68, 57.604, 68.678

 98, 57.604, 68.678

 58, 57.604, 68.678

 48, 57.604, 68.678

 38, 57.604, 68.678

 28, 57.604, 68.678

 18, 57.604, 68.678

 8, 57.604, 68.678

 0, 57.604, 68.678

 78, 57.604, 68.678

 78, 57.604, 68.678

75, 67.098, 67.231

81, 47.743, 70.151

72, 75.703, 65.403

84, 38.098, 71.491

69, 82.203, 62.958

88, 28.768, 72.805

68, 85.020, 61.127

91, 19.815, 74.101

95, 11.249, 75.368

99, 3.050, 76.524

100, 0.012,  
296.813

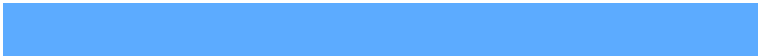
# Harmonies

# Complementary

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



78, 57.604, 68.678



68, 48.836, 271.280

# Rectangle

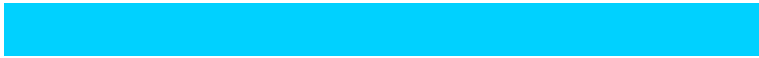
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



78, 57.604, 68.678



78, 57.604, 118.678



78, 57.604, 248.678



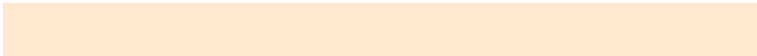
78, 57.604, 298.678

# Sweetspot

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



78, 57.534, 68.757



93, 15.618, 74.719



63, 69.527, 351.546



49, 10.818, 74.355



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



78, 57.534, 68.757



74, 69.964, 66.699



97, 77.067, 104.295



51, 4.574, 75.899



52, 68.256, 61.833



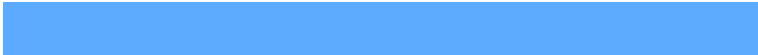
16, 27.012, 63.436



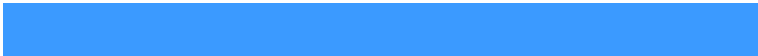


# Inverse Universe

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



68, 48.836, 271.280



63, 58.531, 276.371



49, 94.037, 300.622



50, 4.484, 258.458



40, 60.207, 285.723



12, 24.431, 279.297



# Previews

## White Background



This preview shows how the CIELCh color 78, 57.604, 68.678 looks on a white background.

## Color Contrast Check

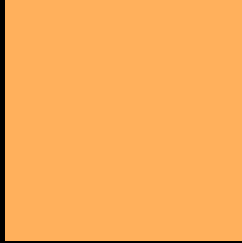
Large Text (above 18pt) WCAG AA × Fail

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 78, 57.604, 68.678 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 78, 57.604, 68.678

## Background



This preview shows how black text looks on a background with the CIELCh color 78, 57.604, 68.678.



This preview shows how white text looks on a background with the CIELCh color 78, 57.604, 68.678.

# 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

78, 57.604, 68.678

### Protanopia

78, 50.016, 95.646

### Deuteranopia

78, 55.247, 79.543



**Tritanopia**  
78, 33.851, 12.698



# Trichromacy



**Original Color**  
78, 57.604, 68.678

**Protanomaly**  
78, 51.060, 85.181

**Deuteranomaly**  
78, 55.755, 75.292

**Tritanomaly**  
78, 37.148, 41.794

# Monochromacy



**Original Color**  
78, 57.604, 68.678

**Achromatopsia**  
77, 0.009, 296.813

**Achromatomaly**  
77, 20.398, 73.659

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 78, 57.604, 68.678 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, 176, 92)` looks like.

```
.text, #text, p{  
    color:rgb(255, 176, 92)  
}
```

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, 176, 92) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 176, 92) }
```

## Border

The CSS property to change the border of an element to CIELCh 78, 57.604, 68.678 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, 176, 92) }
```

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

```
.border{ border-color:rgb(255, 176, 92) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 176, 92)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 176, 92); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 176, 92);  
box-shadow:4px 4px 4px 4px rgb(255, 176,  
92) }
```

# Background

The CSS property to change the background color of an element to CIELCh 78, 57.604, 68.678 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 176, 92) }
```

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

```
.background{ background-color: rgb(255,  
176, 92) }
```

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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