

# Converting Colors

CIELCh(65, 87.666, 55.880)

Have a look what the booklet for  
CIELCh(65, 87.666, 55.880) contains.

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# **Color**

**CIELCh(65, 87.209, 56.102)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF7503
RGB	255, 117, 3
RGB Percent	100%, 46%, 1%
CMY	0.0000, 0.5426, 0.9872
CMYK	0.00, 0.54, 0.99, 0.00
HSL	27°, 100%, 51%
HSV	27°, 99%, 100%
XYZ	47.8568, 34.0472, 4.1430
YIQ	145.2660, 118.8420, -6.1980

# Conversions

## Conversions Part 2

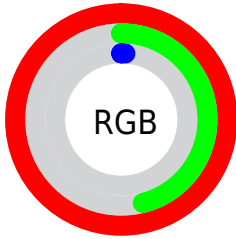
Format	Color
<a href="#">RYB</a>	<a href="#">255, 211, 3</a>
Decimal	<a href="#">16741635</a>
CIELab	<a href="#">65.00, 48.64, 72.39</a>
CIElCh	<a href="#">65, 87.209, 56.102</a>
Yxy	<a href="#">34.0472, 0.5562, 0.3957</a>
Android (android.graphics.Color)	<a href="#">4294931715</a> (0xFFFF7503)
YUV	<a href="#">145.2660, -70.1371, 96.2367</a>
Hunter-Lab	<a href="#">58.3500, 44.2876, 36.6352</a>

# Details

The CIELCh color **65, 87.209, 56.102** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated orange. A complement of this color would be **58, 65.682, 279.170**, and the grayscale version is **60, 0.008, 296.813**.

A 20% lighter version of the original color is **77, 65.336, 70.359**, and **45, 74.331, 49.248** is the 20% darker color. If you saturate the color by 10%, you get **65, 87.664, 55.883**, and if you desaturate by 10%, it is **68, 80.756, 58.798**.

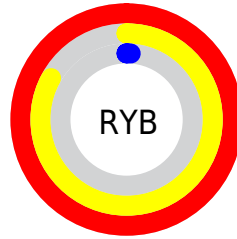
# Distribution



Red (100%)

Green (46%)

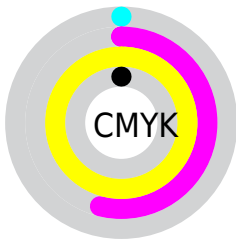
Blue (1%)



Red (100%)

Yellow (83%)

Blue (1%)

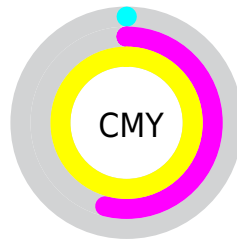


Cyan (0%)

Magenta (54%)

Yellow (99%)

Black (0%)



Cyan (0%)

Magenta (54%)

Yellow (99%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 65, 87.209, 56.102 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 65, 87.209, 56.102 by changing the saturation by 10% instead.



 65, 87.209, 56.102

 65, 87.209, 56.102

 100, 87.209,  
56.102

 55, 87.209, 56.102

 85, 87.209, 56.102

 45, 87.209, 56.102

 95, 87.209, 56.102

 35, 87.209, 56.102

 25, 87.209, 56.102

 15, 87.209, 56.102

 5, 87.209, 56.102

 0, 87.209, 56.102

 65, 87.209, 56.102

 65, 87.209, 56.102

 65, 87.664, 55.883

 68, 80.756, 58.798

71, 72.128, 60.588

74, 62.256, 61.939

77, 52.091, 63.118

81, 42.116, 64.249

85, 32.548, 65.379

88, 23.461, 66.519

92, 14.864, 67.664

96, 6.732, 68.782

# Harmonies

# Complementary

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



65, 87.209, 56.102



58, 65.682, 279.170

# Rectangle

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



65, 87.209, 56.102



65, 87.209, 106.102



65, 87.209, 236.102



65, 87.209, 286.102

# Sweetspot

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



65, 86.942, 56.213



88, 24.597, 66.373



55, 85.458, 357.680



45, 16.985, 65.891



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



65, 86.942, 56.213



65, 87.664, 55.883



94, 93.176, 99.573



51, 4.400, 68.697



49, 70.271, 56.589



15, 27.140, 56.938





# Inverse Universe

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



58, 65.682, 279.170



58, 66.497, 279.770



33, 131.211, 305.784



51, 4.269, 251.104



44, 52.707, 278.872



13, 21.707, 271.951



# Previews

## White Background



This preview shows how the CIELCh color 65, 87.209, 56.102 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 65, 87.209, 56.102 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 65, 87.209, 56.102

## Background



This preview shows how black text looks on a background with the CIELCh color 65, 87.209, 56.102.



This preview shows how white text looks on a background with the CIELCh color 65, 87.209, 56.102.

# 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

65, 86.912, 56.339

### Protanopia

65, 64.554, 95.040

### Deuteranopia

65, 69.612, 83.644



**Tritanopia**  
65, 60.313, 23.313



# Trichromacy



**Original Color**  
65, 86.912, 56.339

**Protanomaly**  
64, 68.144, 77.453

**Deuteranomaly**  
64, 73.463, 71.772

**Tritanomaly**  
65, 69.665, 41.920

# Monochromacy



**Original Color**  
65, 86.912, 56.339

**Achromatopsia**  
60, 0.008, 296.813

**Achromatomaly**  
60, 33.159, 64.871

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 65, 87.209, 56.102 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, 117, 3)` looks like.

```
.text, #text, p{  
    color:rgb(255, 117, 3)  
}
```

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, 117, 3) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 117, 3) }
```

## Border

The CSS property to change the border of an element to CIELCh 65, 87.209, 56.102 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, 117, 3) }
```

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

```
.border{ border-color:rgb(255, 117, 3) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 117, 3)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 117, 3); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 117, 3);  
box-shadow:4px 4px 4px 4px rgb(255, 117,  
3) }
```

# Background

The CSS property to change the background color of an element to CIELCh 65, 87.209, 56.102 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 117, 3) }
```

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

```
.background{ background-color: rgb(255,  
117, 3) }
```

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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