

# Converting Colors

CIELCh(63, 87.472, 52.806)

Have a look what the booklet for  
CIELCh(63, 87.472, 52.806) contains.

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# **Color**

**CIELCh(63, 87.249, 52.995)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FE6B0C
RGB	254, 107, 12
RGB Percent	100%, 42%, 5%
CMY	0.0042, 0.5806, 0.9533
CMYK	0.00, 0.58, 0.95, 0.00
HSL	24°, 99%, 52%
HSV	24°, 95%, 100%
XYZ	46.1646, 31.5869, 4.0082
YIQ	140.1230, 118.1070, 1.6190

# Conversions

## Conversions Part 2

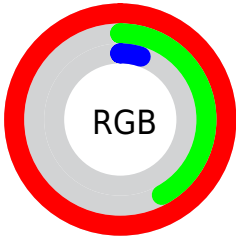
<b>Format</b>	<b>Color</b>
<a href="#">RYB</a>	254, 168, 12
Decimal	16673548
CIELab	63.00, 52.51, 69.68
CIElCh	63, 87.249, 52.995
Yxy	31.5869, 0.5646, 0.3863
Android (android.graphics.Color)	4294863628 (0xFFFE6B0C)
YUV	140.1230, -63.1646, 99.8701
Hunter-Lab	56.2022, 48.2662, 35.1132

# Details

The CIELCh color **63, 87.249, 52.995** 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 **63, 56.509, 270.024**, and the grayscale version is **58, 0.007, 296.813**.

A 20% lighter version of the original color is **75, 64.379, 64.937**, and **43, 76.521, 46.239** is the 20% darker color. If you saturate the color by 10%, you get **62, 90.156, 51.902**, and if you desaturate by 10%, it is **66, 79.419, 54.911**.

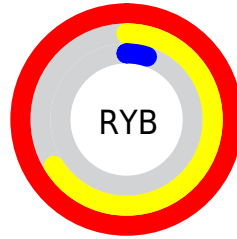
# Distribution



Red (100%)

Green (42%)

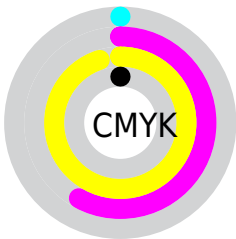
Blue (5%)



Red (100%)

Yellow (66%)

Blue (5%)

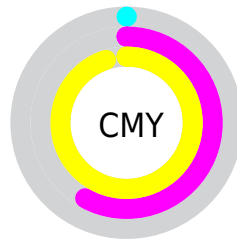


Cyan (0%)

Magenta (58%)

Yellow (95%)

Black (0%)



Cyan (0%)

Magenta (58%)

Yellow (95%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 63, 87.249, 52.995 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 63, 87.249, 52.995 by changing the saturation by 10% instead.



 63, 87.249, 52.995

 63, 87.249, 52.995

 100, 87.249,  
52.995

 53, 87.249, 52.995

 83, 87.249, 52.995

 43, 87.249, 52.995

 93, 87.249, 52.995

 33, 87.249, 52.995

 23, 87.249, 52.995


 13, 87.249, 52.995

 3, 87.249, 52.995

 0, 87.249, 52.995

 63, 87.249, 52.995

 63, 87.249, 52.995

 62, 90.156, 51.902

 66, 79.419, 54.911

69, 69.561, 56.099

73, 59.025, 56.994

76, 48.567, 57.818

80, 38.527, 58.661

84, 29.038, 59.549

89, 20.130, 60.480

93, 11.784, 61.437

97, 3.957, 62.345

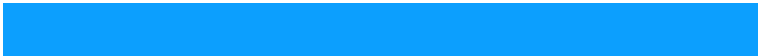
# Harmonies

# Complementary

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



63, 87.249, 52.995



63, 56.509, 270.024

# Rectangle

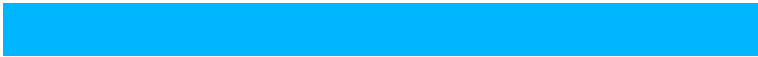
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



63, 87.249, 52.995



63, 87.249, 102.995



63, 87.249, 232.995



63, 87.249, 282.995

# Sweetspot

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



63, 87.246, 52.997



87, 23.428, 60.132



56, 87.434, 350.747



45, 16.307, 59.736



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



63, 87.246, 52.997



62, 90.451, 51.893



90, 88.319, 94.973



51, 4.308, 61.985



47, 72.432, 52.566



14, 27.524, 51.542



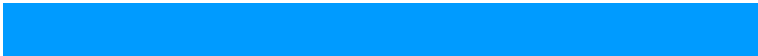


# Inverse Universe

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



63, 56.509, 270.024



62, 58.980, 272.416



36, 123.210, 304.202



51, 4.143, 244.139



47, 46.855, 271.462



14, 19.661, 264.246



# Previews

## White Background



This preview shows how the CIELCh color 63, 87.249, 52.995 looks on a white background.

## Color Contrast Check

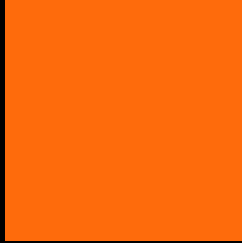
Large Text (above 18pt) WCAG AA × Fail

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 63, 87.249, 52.995 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 63, 87.249, 52.995

## Background



This preview shows how black text looks on a background with the CIELCh color 63, 87.249, 52.995.



This preview shows how white text looks on a background with the CIELCh color 63, 87.249, 52.995.

# 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

63, 87.249, 52.995

### Protanopia

63, 61.995, 95.200

### Deuteranopia

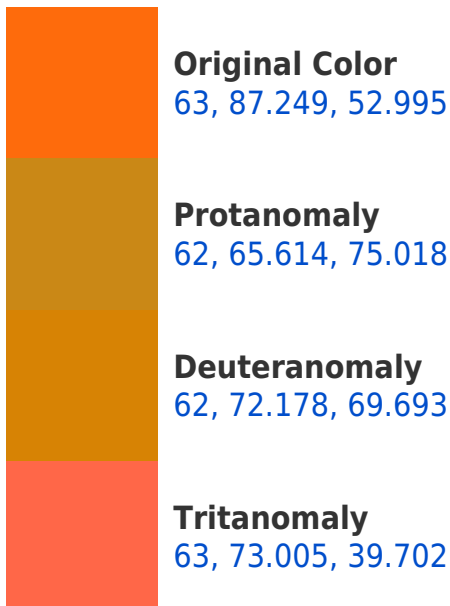
63, 67.996, 83.464



**Tritanopia**  
63, 65.155, 25.080



# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 63, 87.249, 52.995 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(254, 107, 12)` looks like.

```
.text, #text, p{  
    color:rgb(254, 107, 12)  
}
```

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(254, 107, 12) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(254, 107, 12) }
```

## Border

The CSS property to change the border of an element to CIELCh 63, 87.249, 52.995 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(254, 107, 12) }
```

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

```
.border{ border-color:rgb(254, 107, 12) }
```

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

Here you see how a box with a 4 pixel `rgb(254, 107, 12)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(254, 107, 12); -webkit-box-  
shadow:4px 4px 4px 4px rgb(254, 107, 12);  
box-shadow:4px 4px 4px 4px rgb(254, 107,  
12) }
```

# Background

The CSS property to change the background color of an element to CIELCh 63, 87.249, 52.995 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(254, 107, 12) }
```

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

```
.background{ background-color: rgb(254,  
107, 12) }
```

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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