

# Converting Colors

CIELCh(62, 77.600, 56.370)

Have a look what the booklet for  
CIELCh(62, 77.600, 56.370) contains.

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# **Color**

**CIELCh(62, 77.578, 56.391)**

# Conversions

## Conversions Part 1

Format	Color
Hex	EE731A
RGB	238, 115, 26
RGB Percent	93%, 45%, 10%
CMY	0.0679, 0.5500, 0.8993
CMYK	0.00, 0.52, 0.89, 0.07
HSL	25°, 86%, 52%
HSV	25°, 89%, 93%
XYZ	41.4434, 30.4025, 4.6430
YIQ	141.6310, 101.8770, -1.6030

# Conversions

## Conversions Part 2

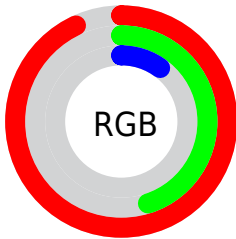
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	238, 179, 26
Decimal	15627034
CIE Lab	62.00, 42.94, 64.61
CIE LCh	62, 77.578, 56.391
Yxy	30.4025, 0.5418, 0.3975
Android (android.graphics.Color)	4293817114 (0xFFEE731A)
YUV	141.6310, -57.0061, 84.5156
Hunter-Lab	55.1385, 37.6723, 33.6043

# Details

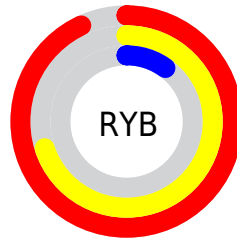
The CIELCh color **62, 77.578, 56.391** is a dark color, and the websafe version is hex **CC6600**. The color can be described as dark washed orange. A complement of this color would be **60, 53.429, 270.534**, and the grayscale version is **59, 0.008, 296.813**.

A 20% lighter version of the original color is **76, 61.348, 66.942**, and **42, 68.890, 50.783** is the 20% darker color. If you saturate the color by 10%, you get **59, 83.885, 54.045**, and if you desaturate by 10%, it is **65, 69.075, 57.988**.

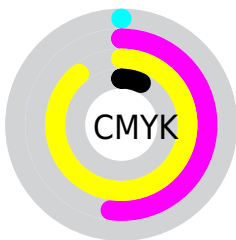
# Distribution



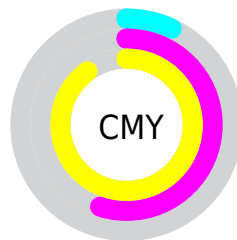
- Red (93%)
- Green (45%)
- Blue (10%)



- Red (93%)
- Yellow (70%)
- Blue (10%)



- Cyan (0%)
- Magenta (52%)
- Yellow (89%)
- Black (7%)



- Cyan (7%)
- Magenta (55%)
- Yellow (90%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 62, 77.578, 56.391 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 62, 77.578, 56.391 by changing the saturation by 10% instead.



62, 77.578, 56.391

62, 77.578, 56.391

100, 77.578,  
56.391

52, 77.578, 56.391

82, 77.578, 56.391

42, 77.578, 56.391

92, 77.578, 56.391

32, 77.578, 56.391

22, 77.578, 56.391

12, 77.578, 56.391

2, 77.578, 56.391

0, 77.578, 56.391

62, 77.578, 56.391

62, 77.578, 56.391

59, 83.885, 54.045

65, 69.075, 57.988

59, 84.371, 53.867

68, 59.470, 59.150

71, 49.665, 60.158

75, 40.108, 61.139

79, 30.990, 62.138

82, 22.374, 63.166

86, 14.263, 64.213

90, 6.627, 65.248

94, 0.574, 247.251

# Harmonies

# Complementary

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



62, 77.578, 56.391



60, 53.429, 270.534

# Rectangle

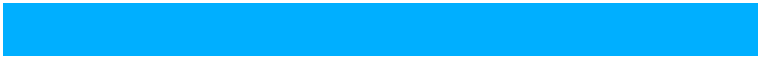
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



62, 77.578, 56.391



62, 77.578, 106.391



62, 77.578, 236.391



62, 77.578, 286.391

# Sweetspot

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



62, 77.576, 56.394



89, 21.766, 63.384



53, 81.245, 351.576



46, 14.824, 63.027



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



62, 77.576, 56.394



63, 89.087, 53.715



87, 84.314, 97.859



48, 4.128, 65.219



46, 69.174, 54.522



12, 23.663, 53.004





# Inverse Universe

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



60, 53.429, 270.534



60, 62.431, 276.096



34, 114.087, 303.757



48, 3.988, 247.495



44, 47.938, 275.012



12, 18.629, 266.694



# Previews

## White Background



This preview shows how the CIELCh color 62, 77.578, 56.391 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 62, 77.578, 56.391 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 62, 77.578, 56.391

## Background



This preview shows how black text looks on a background with the CIELCh color 62, 77.578, 56.391.



This preview shows how white text looks on a background with the CIELCh color 62, 77.578, 56.391.

# 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

62, 77.578, 56.391

### Protanopia

62, 58.848, 95.493

### Tritanopia

62, 56.554, 22.781

# Trichromacy



**Original Color**  
62, 77.578, 56.391

**Protanomaly**  
61, 61.145, 78.123

**Tritanomaly**  
62, 62.355, 39.434

# Monochromacy



**Original Color**  
62, 77.578, 56.391

**Achromatopsia**  
59, 0.008, 296.813

**Achromatomaly**  
58, 27.401, 61.287



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 62, 77.578, 56.391 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(238, 115, 26)` looks like.

```
.text, #text, p{  
    color:rgb(238, 115, 26)  
}
```

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(238, 115, 26) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(238, 115, 26) }
```

## Border

The CSS property to change the border of an element to CIELCh 62, 77.578, 56.391 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(238, 115, 26) }
```

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

```
.border{ border-color:rgb(238, 115, 26) }
```

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

Here you see how a box with a 4 pixel `rgb(238, 115, 26)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(238, 115, 26); -webkit-box-  
shadow:4px 4px 4px 4px rgb(238, 115, 26);  
box-shadow:4px 4px 4px 4px rgb(238, 115,  
26) }
```

# Background

The CSS property to change the background color of an element to CIELCh 62, 77.578, 56.391 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(238, 115, 26) }
```

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

```
.background{ background-color: rgb(238,  
115, 26) }
```

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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