

# Converting Colors

CIELCh(62, 89.951, 51.514)

Have a look what the booklet for  
CIELCh(62, 89.951, 51.514) contains.

<b>CIELCh(62, 89.833, 51.502)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	11
<i><b>Previews</b></i> .....	20
<i><b>Color Blindness Simulation</b></i> .....	23
<i><b>CSS Examples</b></i> .....	26

# **Color**

**CIELCh(62, 89.833, 51.502)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF6405
RGB	255, 100, 5
RGB Percent	100%, 39%, 2%
CMY	0.0000, 0.6076, 0.9801
CMYK	0.00, 0.61, 0.98, 0.00
HSL	23°, 100%, 51%
HSV	23°, 98%, 100%
XYZ	45.8467, 30.4025, 3.5975
YIQ	135.5150, 122.8750, 3.3150

# Conversions

## Conversions Part 2

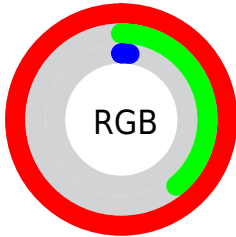
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	255, 158, 5
Decimal	16737285
CIE Lab	62.00, 55.92, 70.31
CIE LCh	62, 89.833, 51.502
Yxy	30.4025, 0.5742, 0.3808
Android (android.graphics.Color)	4294927365 (0xFFFF6405)
YUV	135.5150, -64.3439, 104.7883
Hunter-Lab	55.1385, 51.9272, 34.7286

# Details

The CIELCh color **62, 89.833, 51.502** 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 **64, 56.546, 269.586**, and the grayscale version is **57, 0.007, 296.813**.

A 20% lighter version of the original color is **73, 66.036, 62.276**, and **42, 78.868, 44.135** is the 20% darker color. If you saturate the color by 10%, you get **61, 91.100, 51.096**, and if you desaturate by 10%, it is **65, 82.544, 53.562**.

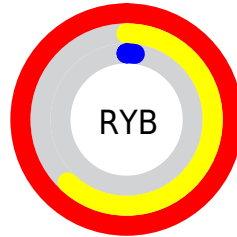
# Distribution



Red (100%)

Green (39%)

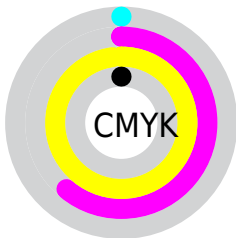
Blue (2%)



Red (100%)

Yellow (62%)

Blue (2%)

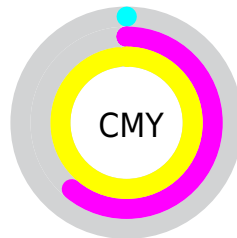


Cyan (0%)

Magenta (61%)

Yellow (98%)

Black (0%)



Cyan (0%)

Magenta (61%)

Yellow (98%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 62, 89.833, 51.502 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, 89.833, 51.502 by changing the saturation by 10% instead.



62, 89.833, 51.502

62, 89.833, 51.502

100, 89.833,  
51.502

52, 89.833, 51.502

82, 89.833, 51.502

42, 89.833, 51.502

92, 89.833, 51.502

32, 89.833, 51.502

22, 89.833, 51.502

12, 89.833, 51.502

2, 89.833, 51.502

0, 89.833, 51.502

62, 89.833, 51.502

62, 89.833, 51.502

61, 91.100, 51.096

65, 82.544, 53.562

68, 72.895, 54.785

71, 62.287, 55.630

75, 51.635, 56.372

79, 41.364, 57.129

83, 31.646, 57.938

88, 22.529, 58.801

92, 14.000, 59.703

96, 6.021, 60.600

# Harmonies

# Complementary

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



62, 89.833, 51.502



64, 56.546, 269.586

# Rectangle

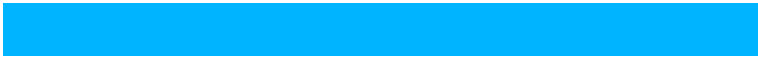
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



62, 89.833, 51.502



62, 89.833, 101.502



62, 89.833, 231.502



62, 89.833, 281.502

# Sweetspot

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



62, 89.813, 51.509



87, 23.406, 58.713



56, 88.465, 350.144



45, 16.298, 58.341



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, 89.813, 51.509



61, 91.100, 51.096



89, 88.068, 93.417



51, 4.296, 60.472



47, 72.940, 51.758



14, 27.639, 50.406



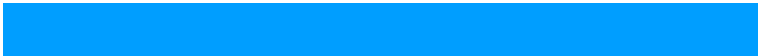


# Inverse Universe

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



64, 56.546, 269.586



63, 57.466, 270.589



35, 124.469, 304.317



51, 4.124, 242.554



48, 45.680, 269.626



15, 19.261, 262.377



# Previews

## White Background



This preview shows how the CIELCh color 62, 89.833, 51.502 looks on a white background.

## Color Contrast Check

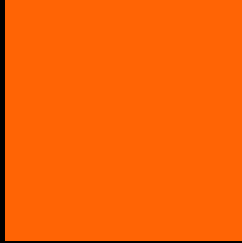
Large Text (above 18pt) WCAG AA × Fail

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, 89.833, 51.502 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, 89.833, 51.502

## Background



This preview shows how black text looks on a background with the CIELCh color 62, 89.833, 51.502.



This preview shows how white text looks on a background with the CIELCh color 62, 89.833, 51.502.

# 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, 89.833, 51.502

### Protanopia

62, 61.477, 95.534

### Deuteranopia

62, 67.241, 83.611



**Tritanopia**  
62, 67.964, 25.875



# Trichromacy



**Original Color**  
62, 89.833, 51.502

**Protanomaly**  
61, 65.840, 73.957

**Deuteranomaly**  
61, 72.384, 68.318

**Tritanomaly**  
62, 76.058, 39.715

# Monochromacy



**Original Color**  
62, 89.833, 51.502

**Achromatopsia**  
57, 0.007, 296.813

**Achromatomaly**  
57, 33.033, 57.461

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 62, 89.833, 51.502 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, 100, 5)` looks like.

```
.text, #text, p{  
    color:rgb(255, 100, 5)  
}
```

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, 100, 5) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 100, 5) }
```

## Border

The CSS property to change the border of an element to CIELCh 62, 89.833, 51.502 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, 100, 5) }
```

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

```
.border{ border-color:rgb(255, 100, 5) }
```

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

Here you see how a box with a 4 pixel rgb(255, 100, 5) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 100, 5); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 100, 5);  
box-shadow:4px 4px 4px 4px rgb(255, 100,  
5) }
```

# Background

The CSS property to change the background color of an element to CIELCh 62, 89.833, 51.502 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 100, 5) }
```

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

```
.background{ background-color: rgb(255,  
100, 5) }
```

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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