

# Converting Colors

CIELCh(62, 90.273, 52.118)

Have a look what the booklet for  
CIELCh(62, 90.273, 52.118) contains.

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# Color

**CIELCh(62, 90.281, 52.109)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF6500
RGB	255, 101, 0
RGB Percent	100%, 40%, 0%
CMY	0.0018, 0.6054, 1.0000
CMYK	0.00, 0.60, 1.00, 0.00
HSL	24°, 100%, 50%
HSV	24°, 100%, 100%
XYZ	45.6810, 30.4025, 3.4414
YIQ	135.5320, 124.2050, 1.2370

# Conversions

## Conversions Part 2

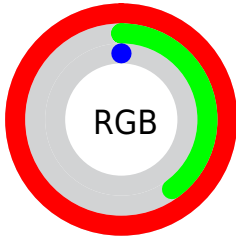
Format	Color
R <sub>Y</sub> B	255, 167, 0
Decimal	16737536
CIE Lab	62.00, 55.45, 71.25
CIE LCh	62, 90.281, 52.109
Yxy	30.4025, 0.5744, 0.3823
Android (android.graphics.Color)	4294927616 (0xFFFF6500)
YUV	135.5320, -66.8173, 104.7734
Hunter-Lab	55.1385, 51.3910, 34.8964

# Details

The CIELCh color **62, 90.281, 52.109** 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 **62, 59.210, 272.776**, and the grayscale version is **57, 0.007, 296.813**.

A 20% lighter version of the original color is **73, 66.729, 63.173**, and **42, 78.490, 44.503** is the 20% darker color. If you saturate the color by 10%, you get **62, 90.190, 52.064**, and if you desaturate by 10%, it is **65, 83.500, 54.325**.

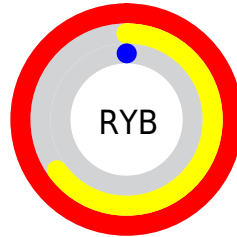
# Distribution



Red (100%)

Green (40%)

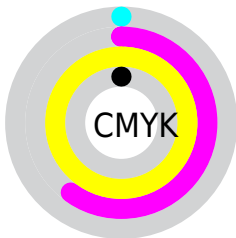
Blue (0%)



Red (100%)

Yellow (65%)

Blue (0%)

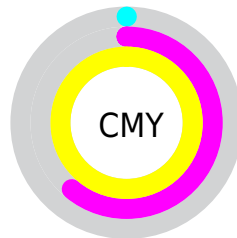


Cyan (0%)

Magenta (60%)

Yellow (100%)

Black (0%)



Cyan (0%)

Magenta (61%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 62, 90.281, 52.109 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, 90.281, 52.109 by changing the saturation by 10% instead.



62, 90.281, 52.109

62, 90.281, 52.109

100, 90.281,  
52.109

52, 90.281, 52.109

82, 90.281, 52.109

42, 90.281, 52.109

92, 90.281, 52.109

32, 90.281, 52.109

22, 90.281, 52.109

12, 90.281, 52.109

2, 90.281, 52.109

0, 90.281, 52.109

62, 90.281, 52.109

62, 90.281, 52.109

62, 90.190, 52.064

65, 83.500, 54.325

68, 74.410, 55.809

71, 64.070, 56.822

75, 53.513, 57.681

79, 43.245, 58.525

83, 33.480, 59.404

87, 24.286, 60.328

91, 15.665, 61.287

95, 7.583, 62.249

# Harmonies

# Complementary

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



62, 90.281, 52.109



62, 59.210, 272.776

# Rectangle

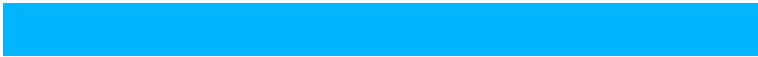
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



62, 90.281, 52.109



62, 90.281, 102.109



62, 90.281, 232.109



62, 90.281, 282.109

# Sweetspot

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



62, 90.190, 52.064



87, 24.323, 60.328



56, 87.631, 352.116



45, 16.829, 59.933



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, 90.190, 52.064



62, 90.319, 52.060



89, 89.124, 94.547



51, 4.311, 62.295



47, 72.329, 52.736



14, 27.502, 51.777



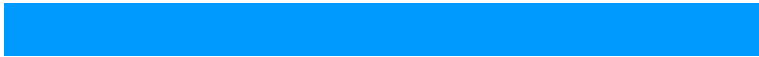


# Inverse Universe

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



62, 59.210, 272.776



62, 59.298, 272.781



34, 127.443, 304.969



51, 4.147, 244.462



47, 47.102, 271.829



14, 19.746, 264.622



# Previews

## White Background



This preview shows how the CIELCh color 62, 90.281, 52.109 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, 90.281, 52.109 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, 90.281, 52.109

## Background



This preview shows how black text looks on a background with the CIELCh color 62, 90.281, 52.109.



This preview shows how white text looks on a background with the CIELCh color 62, 90.281, 52.109.

# 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, 90.281, 52.109

### Protanopia

62, 61.734, 95.537

### Deuteranopia

62, 67.241, 83.611



**Tritanopia**  
62, 67.964, 25.875



# Trichromacy



**Original Color**  
62, 90.281, 52.109

**Protanomaly**  
61, 66.258, 74.581

**Deuteranomaly**  
61, 72.324, 69.132

**Tritanomaly**  
62, 76.641, 40.327

# Monochromacy



**Original Color**  
62, 90.281, 52.109

**Achromatopsia**  
56, 0.007, 296.813

**Achromatomaly**  
56, 33.500, 58.071

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 62, 90.281, 52.109 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, 101, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 101, 0)  
}
```

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, 101, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 101, 0) }
```

## Border

The CSS property to change the border of an element to CIELCh 62, 90.281, 52.109 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, 101, 0) }
```

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

```
.border{ border-color:rgb(255, 101, 0) }
```

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

Here you see how a box with a 4 pixel rgb(255, 101, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 101, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 101, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 101,  
0) }
```

# Background

The CSS property to change the background color of an element to CIELCh 62, 90.281, 52.109 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 101, 0) }
```

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

```
.background{ background-color: rgb(255,  
101, 0) }
```

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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