

# Converting Colors

CIELCh(71, 70.468, 60.731)

Have a look what the booklet for  
CIELCh(71, 70.468, 60.731) contains.

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# Color

**CIELCh(71, 70.784, 60.488)**

# Conversions

## Conversions Part 1

Format	Color
Hex	FF923A
RGB	255, 146, 58
RGB Percent	100%, 57%, 23%
CMY	0.0000, 0.4270, 0.7721
CMYK	0.00, 0.43, 0.77, 0.00
HSL	27°, 100%, 61%
HSV	27°, 77%, 100%
XYZ	52.3555, 42.1875, 9.4022
YIQ	168.5590, 93.2120, -4.2600

# Conversions

## Conversions Part 2

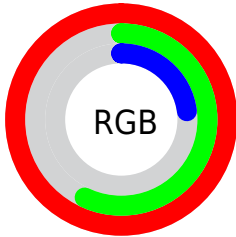
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	255, 217, 58
Decimal	16749114
CIE Lab	71.00, 34.87, 61.60
CIE LCh	71, 70.784, 60.488
Yxy	42.1875, 0.5037, 0.4059
Android (android.graphics.Color)	4294939194 (0xFFFF923A)
YUV	168.5590, -54.5056, 75.8088
Hunter-Lab	64.9519, 30.2169, 36.8838

# Details

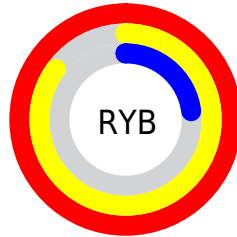
The CIELCh color **71, 70.784, 60.488** is a light color, and the websafe version is hex **FF9933**. The color can be described as light washed orange. A complement of this color would be **66, 52.295, 268.592**, and the grayscale version is **69, 0.009, 296.813**.

A 20% lighter version of the original color is **84, 52.516, 79.895**, and **51, 69.201, 59.633** is the 20% darker color. If you saturate the color by 10%, you get **68, 79.676, 58.842**, and if you desaturate by 10%, it is **74, 60.738, 61.814**.

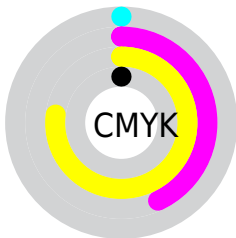
# Distribution



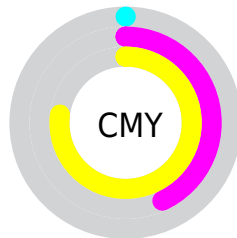
- Red (100%)
- Green (57%)
- Blue (23%)



- Red (100%)
- Yellow (85%)
- Blue (23%)



- Cyan (0%)
- Magenta (43%)
- Yellow (77%)
- Black (0%)



- Cyan (0%)
- Magenta (43%)
- Yellow (77%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 71, 70.784, 60.488 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 71, 70.784, 60.488 by changing the saturation by 10% instead.



 71, 70.784, 60.488

 71, 70.784, 60.488

 100, 70.784,  
60.488

 61, 70.784, 60.488

 91, 70.784, 60.488

 51, 70.784, 60.488

 41, 70.784, 60.488

 31, 70.784, 60.488

 21, 70.784, 60.488

 11, 70.784, 60.488

 1, 70.784, 60.488

 0, 70.784, 60.488

 71, 70.784, 60.488

 71, 70.784, 60.488

68, 79.676, 58.842

74, 60.738, 61.814

65, 86.253, 56.372

78, 50.557, 62.963

64, 87.816, 55.635

81, 40.623, 64.077

85, 31.119, 65.196

89, 22.107, 66.327

93, 13.588, 67.462

97, 5.533, 68.559

100, 0.012,  
296.813

# Harmonies

# Complementary

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



71, 70.784, 60.488



66, 52.295, 268.592

# Rectangle

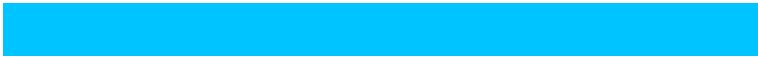
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



71, 70.784, 60.488



71, 70.784, 110.488



71, 70.784, 240.488



71, 70.784, 290.488

# Sweetspot

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



71, 70.734, 60.521



91, 18.463, 66.806



59, 80.936, 349.857



47, 12.912, 66.395



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



71, 70.734, 60.521



66, 83.848, 57.531



94, 83.953, 99.759



51, 4.393, 68.317



49, 70.388, 56.341



15, 27.155, 56.616



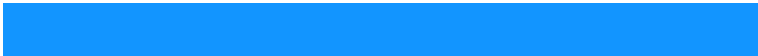


# Inverse Universe

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



66, 52.295, 268.592



61, 61.721, 275.978



42, 107.221, 301.646



51, 4.260, 250.712



44, 52.347, 278.481



13, 21.579, 271.539



# Previews

## White Background



This preview shows how the CIELCh color 71, 70.784, 60.488 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 71, 70.784, 60.488 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 71, 70.784, 60.488

## Background



This preview shows how black text looks on a background with the CIELCh color 71, 70.784, 60.488.



This preview shows how white text looks on a background with the CIELCh color 71, 70.784, 60.488.

# 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

71, 70.784, 60.488

### Protanopia

71, 56.299, 95.420

### Deuteranopia

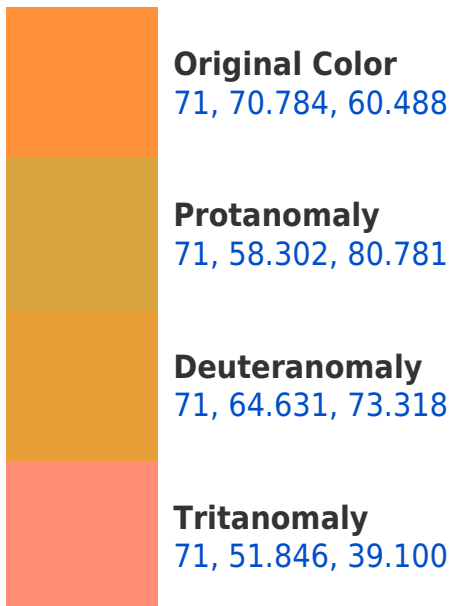
71, 63.073, 81.641



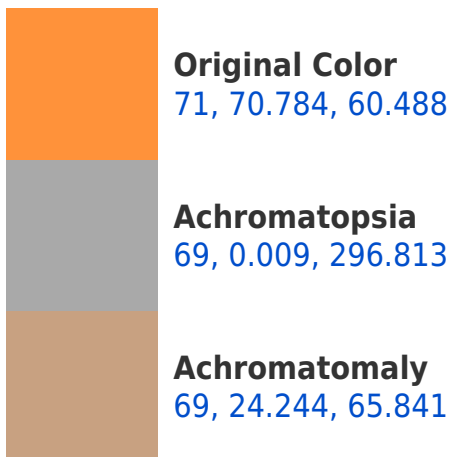
**Tritanopia**  
71, 46.691, 18.501



# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 71, 70.784, 60.488 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, 146, 58)` looks like.

```
.text, #text, p{  
    color:rgb(255, 146, 58)  
}
```

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, 146, 58) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 146, 58) }
```

## Border

The CSS property to change the border of an element to CIELCh 71, 70.784, 60.488 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, 146, 58) }
```

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

```
.border{ border-color:rgb(255, 146, 58) }
```

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

Here you see how a box with a 4 pixel `rgb(255, 146, 58)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 146, 58); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 146, 58);  
box-shadow:4px 4px 4px 4px rgb(255, 146,  
58) }
```

# Background

The CSS property to change the background color of an element to CIELCh 71, 70.784, 60.488 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 146, 58) }
```

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

```
.background{ background-color: rgb(255,  
146, 58) }
```

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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