

# Converting Colors

CIELCh(70, 49.109, 62.477)

Have a look what the booklet for  
CIELCh(70, 49.109, 62.477) contains.

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# Color

**CIELCh(70, 49.400, 62.573)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	E79A5C
RGB	231, 154, 92
RGB Percent	91%, 60%, 36%
CMY	0.0951, 0.3970, 0.6401
CMYK	0.00, 0.33, 0.60, 0.10
HSL	27°, 74%, 63%
HSV	27°, 60%, 90%
XYZ	46.3103, 40.7494, 15.4998
YIQ	169.9550, 65.7940, -2.9580

# Conversions

## Conversions Part 2

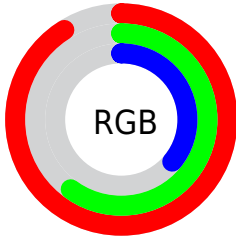
Format	Color
R <sub>Y</sub> B	231, 204, 92
Decimal	15178332
CIE Lab	70.00, 22.75, 43.85
CIE LCh	70, 49.400, 62.573
Yxy	40.7494, 0.4515, 0.3973
Android (android.graphics.Color)	4293368412 (0xFFE79A5C)
YUV	169.9550, -38.4318, 53.5365
Hunter-Lab	63.8353, 17.7840, 30.2885

# Details

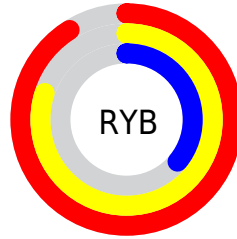
The CIELCh color **70, 49.400, 62.573** is a light color, and the websafe version is hex **FF9966**. The color can be described as light muted orange. A complement of this color would be **67, 38.708, 261.772**, and the grayscale version is **70, 0.009, 296.813**.

A 20% lighter version of the original color is **86, 39.099, 78.231**, and **50, 49.218, 63.056** is the 20% darker color. If you saturate the color by 10%, you get **67, 58.799, 61.415**, and if you desaturate by 10%, it is **73, 40.149, 63.685**.

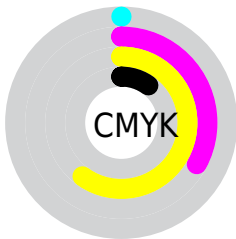
# Distribution



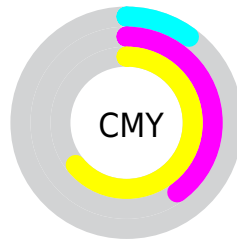
- Red (91%)
- Green (60%)
- Blue (36%)



- Red (91%)
- Yellow (80%)
- Blue (36%)



- Cyan (0%)
- Magenta (33%)
- Yellow (60%)
- Black (10%)



- Cyan (10%)
- Magenta (40%)
- Yellow (64%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 70, 49.400, 62.573 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 70, 49.400, 62.573 by changing the saturation by 10% instead.



 70, 49.400, 62.573

 70, 49.400, 62.573

 100, 49.400,  
62.573

 60, 49.400, 62.573

 90, 49.400, 62.573

 50, 49.400, 62.573

 40, 49.400, 62.573

 30, 49.400, 62.573

 20, 49.400, 62.573

 10, 49.400, 62.573

 0, 49.400, 62.573

 70, 49.400, 62.573

 70, 49.400, 62.573

 67, 58.799, 61.415

 73, 40.149, 63.685

64, 67.871, 60.065

77, 31.265, 64.791

61, 75.691, 58.241

80, 22.825, 65.910

59, 81.330, 55.795

84, 14.841, 67.037

88, 7.293, 68.147

91, 0.147, 66.241

95, 6.638, 250.535

98, 8.276, 198.962

# Harmonies

# Complementary

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



70, 49.400, 62.573



67, 38.708, 261.772

# Rectangle

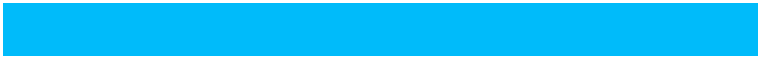
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



70, 49.400, 62.573



70, 49.400, 112.573



70, 49.400, 242.573



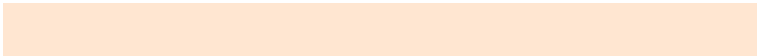
70, 49.400, 292.573

# Sweetspot

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



70, 49.399, 62.577



93, 14.240, 67.275



59, 63.389, 346.578



48, 9.978, 66.946



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



70, 49.399, 62.577



73, 65.600, 61.145



87, 64.243, 101.233



46, 4.026, 68.229



46, 66.807, 56.476



11, 21.023, 54.764





# Inverse Universe

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



67, 38.708, 261.772



68, 49.122, 266.290



49, 75.534, 297.388



46, 3.905, 250.597



41, 49.421, 278.122



10, 18.051, 268.966



# Previews

## White Background



This preview shows how the CIELCh color 70, 49.400, 62.573 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 70, 49.400, 62.573 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

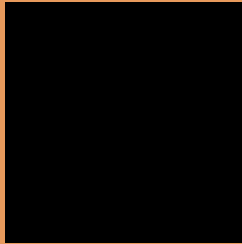
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 70, 49.400, 62.573

## Background



This preview shows how black text looks on a background with the CIELCh color 70, 49.400, 62.573.

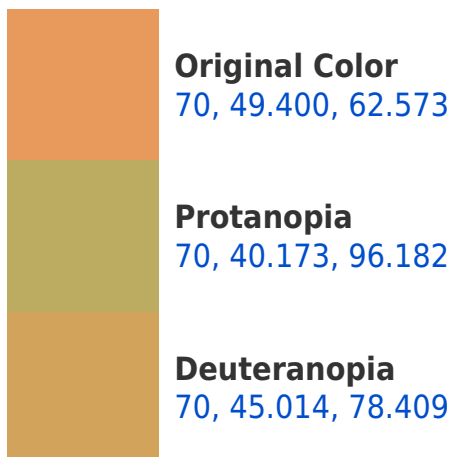


This preview shows how white text looks on a background with the CIELCh color 70, 49.400, 62.573.

# 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





**Tritanopia**  
70, 35.923, 13.684



# Trichromacy



**Original Color**  
70, 49.400, 62.573

**Protanomaly**  
70, 41.311, 81.735

**Deuteranomaly**  
70, 46.144, 72.218

**Tritanomaly**  
70, 36.843, 35.976

# Monochromacy



**Original Color**  
70, 49.400, 62.573

**Achromatopsia**  
70, 0.009, 296.813

**Achromatomaly**  
69, 16.690, 65.738

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 70, 49.400, 62.573 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(231, 154, 92)` looks like.

```
.text, #text, p{  
    color:rgb(231, 154, 92)  
}
```

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(231, 154, 92) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(231, 154, 92) }
```

## Border

The CSS property to change the border of an element to CIELCh 70, 49.400, 62.573 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(231, 154, 92) }
```

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

```
.border{ border-color:rgb(231, 154, 92) }
```

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

Here you see how a box with a 4 pixel rgb(231, 154, 92) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(231, 154, 92); -webkit-box-  
shadow:4px 4px 4px 4px rgb(231, 154, 92);  
box-shadow:4px 4px 4px 4px rgb(231, 154,  
92) }
```

# Background

The CSS property to change the background color of an element to CIELCh 70, 49.400, 62.573 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(231, 154, 92) }
```

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

```
.background{ background-color: rgb(231,  
154, 92) }
```

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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