

# Converting Colors

CIELCh(68, 69.231, 56.648)

Have a look what the booklet for  
CIELCh(68, 69.231, 56.648) contains.

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# Color

**CIELCh(68, 69.312, 56.618)**

# Conversions

## Conversions Part 1

Format	Color
Hex	F9873B
RGB	249, 135, 59
RGB Percent	98%, 53%, 23%
CMY	0.0218, 0.4691, 0.7672
CMYK	0.00, 0.46, 0.76, 0.02
HSL	24°, 94%, 61%
HSV	24°, 76%, 98%
XYZ	48.7392, 37.9720, 8.9472
YIQ	160.4220, 92.3400, 0.5320

# Conversions

## Conversions Part 2

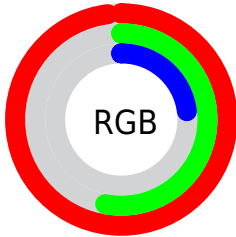
Format	Color
R <sub>Y</sub> B	249, 186, 59
Decimal	16353083
CIE Lab	68.00, 38.14, 57.88
CIE LCh	68, 69.312, 56.618
Yxy	37.9720, 0.5095, 0.3970
Android (android.graphics.Color)	4294543163 (0xFFFF9873B)
YUV	160.4220, -50.0010, 77.6829
Hunter-Lab	61.6215, 33.3461, 34.5263

# Details

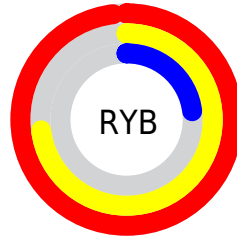
The CIELCh color **68, 69.312, 56.618** is a dark color, and the websafe version is hex **FF9933**. The color can be described as middle washed orange. A complement of this color would be **68, 47.240, 261.836**, and the grayscale version is **66, 0.008, 296.813**.

A 20% lighter version of the original color is **81, 50.678, 72.246**, and **48, 68.933, 56.363** is the 20% darker color. If you saturate the color by 10%, you get **65, 78.838, 55.336**, and if you desaturate by 10%, it is **71, 59.010, 57.582**.

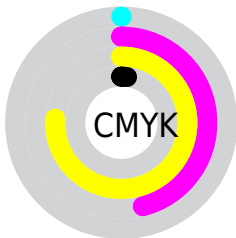
# Distribution



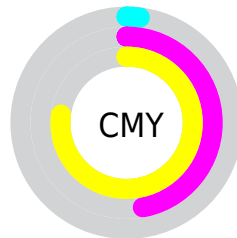
- Red (98%)
- Green (53%)
- Blue (23%)



- Red (98%)
- Yellow (73%)
- Blue (23%)



- Cyan (0%)
- Magenta (46%)
- Yellow (76%)
- Black (2%)



- Cyan (2%)
- Magenta (47%)
- Yellow (77%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 68, 69.312, 56.618 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 68, 69.312, 56.618 by changing the saturation by 10% instead.



68, 69.312, 56.618

68, 69.312, 56.618

100, 69.312,  
56.618

58, 69.312, 56.618

88, 69.312, 56.618

48, 69.312, 56.618

98, 69.312, 56.618

38, 69.312, 56.618

28, 69.312, 56.618

18, 69.312, 56.618

8, 69.312, 56.618

0, 69.312, 56.618

68, 69.312, 56.618

68, 69.312, 56.618

65, 78.838, 55.336

71, 59.010, 57.582

62, 86.233, 53.285

75, 48.725, 58.453

61, 88.561, 52.404

79, 38.820, 59.333

83, 29.438, 60.251

87, 20.617, 61.208

91, 12.343, 62.190

95, 4.576, 63.137

100, 1.929,  
199.627

# Harmonies

# Complementary

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



68, 69.312, 56.618



68, 47.240, 261.836

# Rectangle

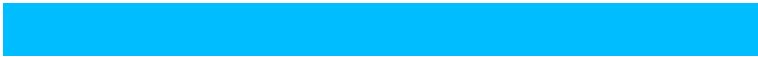
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



68, 69.312, 56.618



68, 69.312, 106.618



68, 69.312, 236.618



68, 69.312, 286.618

# Sweetspot

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



68, 69.310, 56.621



90, 18.234, 61.519



59, 81.085, 346.265



47, 12.770, 61.165



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



68, 69.310, 56.621



65, 84.224, 54.460



90, 78.961, 96.764



50, 4.245, 62.840



47, 71.409, 53.074



14, 26.257, 51.852





# Inverse Universe

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



68, 47.240, 261.836



64, 55.375, 268.845



44, 98.326, 299.667



50, 4.087, 245.028



46, 47.033, 272.417



14, 19.277, 264.853



# Previews

## White Background



This preview shows how the CIELCh color 68, 69.312, 56.618 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 68, 69.312, 56.618 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 68, 69.312, 56.618

## Background



This preview shows how black text looks on a background with the CIELCh color 68, 69.312, 56.618.



This preview shows how white text looks on a background with the CIELCh color 68, 69.312, 56.618.

# 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

68, 69.312, 56.618

### Protanopia

68, 52.015, 95.361

### Deuteranopia

68, 59.955, 81.767



**Tritanopia**  
68, 51.837, 20.010



# Trichromacy



**Original Color**  
68, 69.312, 56.618

**Protanomaly**  
67, 54.296, 78.480

**Deuteranomaly**  
68, 61.624, 71.578

**Tritanomaly**  
68, 55.524, 36.698

# Monochromacy



**Original Color**  
68, 69.312, 56.618

**Achromatopsia**  
66, 0.008, 296.813

**Achromatomaly**  
66, 23.539, 60.983

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 68, 69.312, 56.618 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(249, 135, 59)` looks like.

```
.text, #text, p{  
    color:rgb(249, 135, 59)  
}
```

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(249, 135, 59) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(249, 135, 59) }
```

## Border

The CSS property to change the border of an element to CIELCh 68, 69.312, 56.618 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(249, 135, 59) }
```

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

```
.border{ border-color:rgb(249, 135, 59) }
```

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

Here you see how a box with a 4 pixel `rgb(249, 135, 59)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(249, 135, 59); -webkit-box-  
shadow:4px 4px 4px 4px rgb(249, 135, 59);  
box-shadow:4px 4px 4px 4px rgb(249, 135,  
59) }
```

# Background

The CSS property to change the background color of an element to CIELCh 68, 69.312, 56.618 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(249, 135, 59) }
```

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

```
.background{ background-color: rgb(249,  
135, 59) }
```

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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