

# Converting Colors

CIELCh(69, 65.807, 70.704)

Have a look what the booklet for  
CIELCh(69, 65.807, 70.704) contains.

<b>CIELCh(69, 65.780, 70.765)</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(69, 65.780, 70.765)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E69731
RGB	230, 151, 49
RGB Percent	90%, 59%, 19%
CMY	0.0966, 0.4066, 0.8065
CMYK	0.00, 0.34, 0.79, 0.10
HSL	34°, 79%, 55%
HSV	34°, 79%, 90%
XYZ	44.4316, 39.3444, 8.1955
YIQ	162.9930, 79.8260, -14.9740

# Conversions

## Conversions Part 2

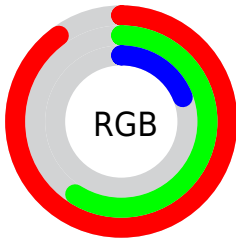
Format	Color
R <sub>Y</sub> B	189, 230, 49
Decimal	15111985
CIE Lab	69.00, 21.67, 62.11
CIE LCh	69, 65.780, 70.765
Yxy	39.3444, 0.4831, 0.4278
Android (android.graphics.Color)	4293302065 (0xFFE69731)
YUV	162.9930, -56.1985, 58.7651
Hunter-Lab	62.7251, 16.6723, 36.1609

# Details

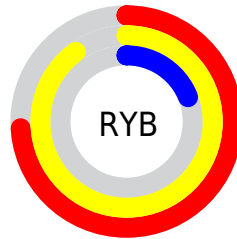
The CIELCh color **69, 65.780, 70.765** is a dark color, and the websafe version is hex **FF9933**. The color can be described as middle washed orange. A complement of this color would be **54, 59.617, 281.393**, and the grayscale version is **67, 0.008, 296.813**.

A 20% lighter version of the original color is **85, 56.891, 83.366**, and **49, 60.902, 68.875** is the 20% darker color. If you saturate the color by 10%, you get **67, 72.458, 68.648**, and if you desaturate by 10%, it is **72, 57.640, 72.494**.

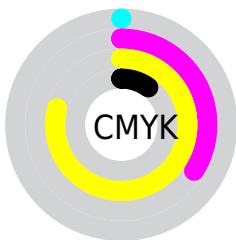
# Distribution



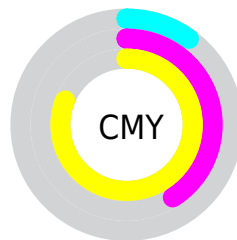
- Red (90%)
- Green (59%)
- Blue (19%)



- Red (74%)
- Yellow (90%)
- Blue (19%)



- Cyan (0%)
- Magenta (34%)
- Yellow (79%)
- Black (10%)



- Cyan (10%)
- Magenta (41%)
- Yellow (81%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 69, 65.780, 70.765 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 69, 65.780, 70.765 by changing the saturation by 10% instead.



69, 65.780, 70.765

69, 65.780, 70.765

100, 65.780,  
70.765

59, 65.780, 70.765

89, 65.780, 70.765

49, 65.780, 70.765

99, 65.780, 70.765

39, 65.780, 70.765

29, 65.780, 70.765

19, 65.780, 70.765

9, 65.780, 70.765

0, 65.780, 70.765

69, 65.780, 70.765

69, 65.780, 70.765

67, 72.458, 68.648

72, 57.640, 72.494

64, 76.832, 65.893

74, 48.885, 74.027

64, 77.395, 65.500

77, 40.005, 75.468

80, 31.252, 76.861

83, 22.742, 78.219

86, 14.516, 79.544

89, 6.580, 80.815

92, 1.078, 262.459

95, 7.735, 260.327

# Harmonies

# Complementary

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



69, 65.780, 70.765



54, 59.617, 281.393

# Rectangle

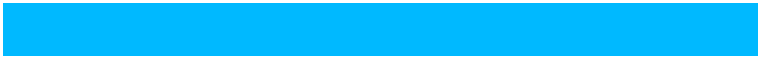
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



69, 65.780, 70.765



69, 65.780, 120.765



69, 65.780, 250.765



69, 65.780, 300.765

# Sweetspot

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



69, 65.779, 70.768



92, 20.567, 78.813



53, 72.211, 358.875



48, 14.222, 78.336



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



69, 65.779, 70.768



72, 81.317, 67.077



88, 82.337, 106.104



47, 4.348, 80.708



50, 63.825, 66.150



13, 21.103, 67.597





# Inverse Universe

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



54, 59.617, 281.393



53, 78.081, 288.056



36, 106.596, 304.195



46, 4.293, 263.271



35, 62.353, 289.569



7, 22.030, 281.405



# Previews

## White Background



This preview shows how the CIELCh color 69, 65.780, 70.765 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 CIE LCh color 69, 65.780, 70.765 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 69, 65.780, 70.765

## Background



This preview shows how black text looks on a background with the CIELCh color 69, 65.780, 70.765.



This preview shows how white text looks on a background with the CIELCh color 69, 65.780, 70.765.

# 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

69, 65.780, 70.765

### Protanopia

69, 59.136, 95.350

### Deuteranopia

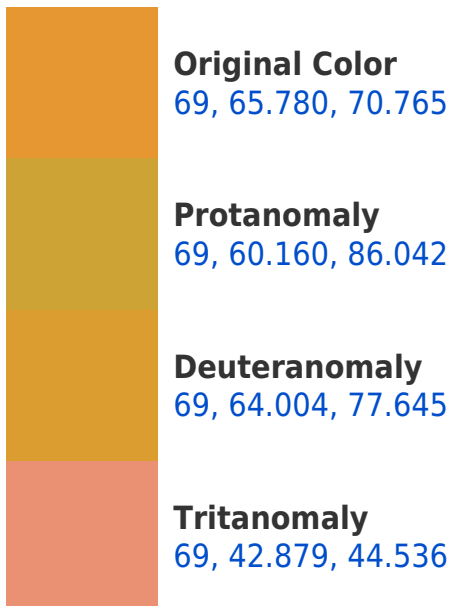
69, 63.219, 81.804



**Tritanopia**  
69, 38.534, 14.701



# Trichromacy



# Monochromacy



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 69, 65.780, 70.765 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(230, 151, 49)` looks like.

```
.text, #text, p{  
    color:rgb(230, 151, 49)  
}
```

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(230, 151, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(230, 151, 49) }
```

## Border

The CSS property to change the border of an element to CIELCh 69, 65.780, 70.765 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(230, 151, 49) }
```

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

```
.border{ border-color:rgb(230, 151, 49) }
```

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

Here you see how a box with a 4 pixel `rgb(230, 151, 49)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(230, 151, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(230, 151, 49);  
box-shadow:4px 4px 4px 4px rgb(230, 151,  
49) }
```

# Background

The CSS property to change the background color of an element to CIELCh 69, 65.780, 70.765 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(230, 151, 49) }
```

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

```
.background{ background-color: rgb(230,  
151, 49) }
```

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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