

Converting Colors

CIELCh(68, 71.825, 70.736)

Have a look what the booklet for
CIELCh(68, 71.825, 70.736) contains.

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Color

CIELCh(68, 71.904, 70.787)

Conversions

Conversions Part 1

Format	Color
Hex	E7931D
RGB	231, 147, 29
RGB Percent	91%, 58%, 11%
CMY	0.0939, 0.4233, 0.8860
CMYK	0.00, 0.36, 0.87, 0.09
HSL	35°, 81%, 51%
HSV	35°, 87%, 91%
XYZ	43.6398, 37.9720, 6.1963
YIQ	158.6640, 87.9420, -18.8900

Conversions

Conversions Part 2

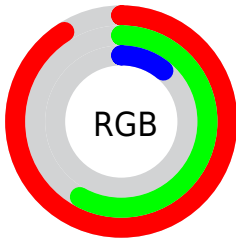
Format	Color
RYB	173, 231, 29
Decimal	15176477
CIELab	68.00, 23.66, 67.90
CIELCh	68, 71.904, 70.787
Yxy	37.9720, 0.4970, 0.4324
Android (android.graphics.Color)	4293366557 (0xFFE7931D)
YUV	158.6640, -63.9244, 63.4387
Hunter-Lab	61.6215, 18.5747, 37.1732

Details

The CIELCh color **68, 71.904, 70.787** 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 **49, 69.258, 286.768**, and the grayscale version is **66, 0.008, 296.813**.

A 20% lighter version of the original color is **84, 62.903, 83.029**, and **48, 61.195, 66.730** is the 20% darker color. If you saturate the color by 10%, you get **66, 76.233, 68.112**, and if you desaturate by 10%, it is **70, 65.211, 72.859**.

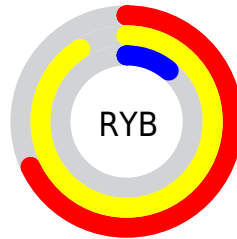
Distribution



Red (91%)

Green (58%)

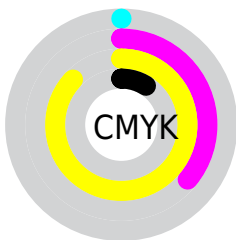
Blue (11%)



Red (68%)

Yellow (91%)

Blue (11%)

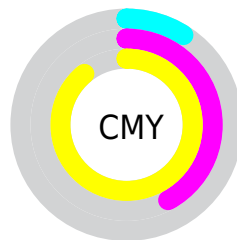


Cyan (0%)

Magenta (36%)

Yellow (87%)

Black (9%)



Cyan (9%)

Magenta (42%)

Yellow (89%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 68, 71.904, 70.787 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, 71.904, 70.787 by changing the saturation by 10% instead.

68, 71.904, 70.787

68, 71.904, 70.787

100, 71.904,
70.787

58, 71.904, 70.787

88, 71.904, 70.787

48, 71.904, 70.787

98, 71.904, 70.787

38, 71.904, 70.787

28, 71.904, 70.787

18, 71.904, 70.787

8, 71.904, 70.787

0, 71.904, 70.787

68, 71.904, 70.787

68, 71.904, 70.787

66, 76.233, 68.112

70, 65.211, 72.859

65, 77.170, 67.389

73, 57.096, 74.578

75, 48.363, 76.121

78, 39.485, 77.576

81, 30.706, 78.982

84, 22.140, 80.351

87, 13.831, 81.681

89, 5.789, 82.949

92, 1.997, 264.436

Harmonies

Complementary

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



68, 71.904, 70.787



49, 69.258, 286.768

Rectangle

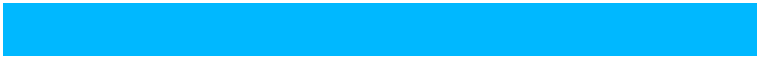
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



68, 71.904, 70.787



68, 71.904, 120.787



68, 71.904, 250.787



68, 71.904, 300.787

Sweetspot

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



68, 71.902, 70.790



92, 22.696, 80.523



51, 75.567, 4.925



48, 15.473, 80.052



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, 71.902, 70.790



71, 83.185, 67.182



88, 87.192, 107.782



47, 4.425, 82.700



51, 63.526, 68.027



13, 21.233, 69.865

Inverse Universe

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



49, 69.258, 286.768



49, 86.716, 292.112



32, 116.041, 305.703



45, 4.381, 265.261



34, 64.801, 291.164



7, 22.760, 282.998

Previews

White Background



This preview shows how the CIELCh color 68, 71.904, 70.787 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, 71.904, 70.787 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, 71.904, 70.787

Background



This preview shows how black text looks on a background with the CIELCh color 68, 71.904, 70.787.



This preview shows how white text looks on a background with the CIELCh color 68, 71.904, 70.787.

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, 71.904, 70.787

Protanopia

68, 65.111, 95.419

Deuteranopia

68, 69.412, 82.937



Tritanopia
68, 40.757, 16.261

Trichromacy



Original Color
68, 71.904, 70.787

Protanomaly
68, 65.931, 85.986

Deuteranomaly
68, 70.016, 78.262

Tritanomaly
68, 47.410, 47.331

Monochromacy



Original Color
68, 71.904, 70.787

Achromatopsia
65, 0.008, 296.813

Achromatomaly
66, 27.176, 79.233

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 68, 71.904, 70.787 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, 147, 29)` looks like.

```
.text, #text, p{  
    color:rgb(231, 147, 29)  
}
```

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, 147, 29) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(231, 147, 29) }
```

Border

The CSS property to change the border of an element to CIELCh 68, 71.904, 70.787 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, 147, 29) }
```

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

```
.border{ border-color:rgb(231, 147, 29) }
```

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

Here you see how a box with a 4 pixel `rgb(231, 147, 29)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(231, 147, 29); -webkit-box-  
shadow:4px 4px 4px 4px rgb(231, 147, 29);  
box-shadow:4px 4px 4px 4px rgb(231, 147,  
29) }
```

Background

The CSS property to change the background color of an element to CIELCh 68, 71.904, 70.787 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(231, 147, 29) }
```

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

```
.background{ background-color: rgb(231,  
147, 29) }
```

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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