

Converting Colors

CIELCh(70, 77.088, 75.176)

Have a look what the booklet for
CIELCh(70, 77.088, 75.176) contains.

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Color

CIELCh(70, 77.068, 75.040)

Conversions

Conversions Part 1

Format	Color
Hex	E99B00
RGB	233, 155, 0
RGB Percent	91%, 61%, 0%
CMY	0.0864, 0.3923, 1.0000
CMYK	0.00, 0.33, 1.00, 0.09
HSL	40°, 100%, 46%
HSV	40°, 100%, 91%
XYZ	45.3078, 40.7494, 5.4751
YIQ	160.6520, 96.2430, -31.6690

Conversions

Conversions Part 2

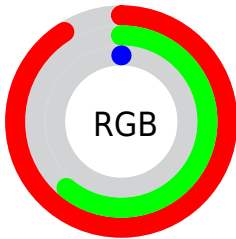
Format	Color
R _Y B	117, 233, 0
Decimal	15309568
CIE Lab	70.00, 19.89, 74.46
CIE LCh	70, 77.068, 75.040
Yxy	40.7494, 0.4950, 0.4452
Android (android.graphics.Color)	4293499648 (0xFFE99B00)
YUV	160.6520, -79.2014, 63.4492
Hunter-Lab	63.8353, 14.9806, 39.5994

Details

The CIELCh color **70, 77.068, 75.040** is a dark color, and the websafe version is hex **FF9900**. The color can be described as dark washed orange. A complement of this color would be **40, 92.572, 297.064**, and the grayscale version is **66, 0.008, 296.813**.

A 20% lighter version of the original color is **86, 68.991, 87.553**, and **50, 61.291, 70.358** is the 20% darker color. If you saturate the color by 10%, you get **70, 77.058, 75.040**, and if you desaturate by 10%, it is **72, 74.111, 77.523**.

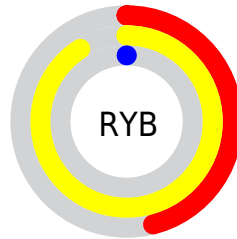
Distribution



Red (91%)

Green (61%)

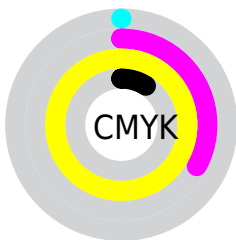
Blue (0%)



Red (46%)

Yellow (91%)

Blue (0%)

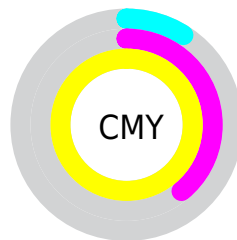


Cyan (0%)

Magenta (33%)

Yellow (100%)

Black (9%)



Cyan (9%)

Magenta (39%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 70, 77.068, 75.040 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, 77.068, 75.040 by changing the saturation by 10% instead.

 70, 77.068, 75.040

 70, 77.068, 75.040

 100, 77.068,
75.040

 60, 77.068, 75.040

 90, 77.068, 75.040

 50, 77.068, 75.040

 40, 77.068, 75.040

 30, 77.068, 75.040

 20, 77.068, 75.040

 10, 77.068, 75.040

 0, 77.068, 75.040

 70, 77.068, 75.040

 70, 77.068, 75.040

 70, 77.058, 75.040

 72, 74.111, 77.523

74, 68.755, 79.571

76, 61.443, 81.302

78, 53.039, 82.865

80, 44.141, 84.336

83, 35.096, 85.751

85, 26.090, 87.124

87, 17.215, 88.454

90, 8.510, 89.731

Harmonies

Complementary

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



70, 77.068, 75.040



40, 92.572, 297.064

Rectangle

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



70, 77.068, 75.040



70, 77.068, 125.040



70, 77.068, 255.040



70, 77.068, 305.040

Sweetspot

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



70, 77.058, 75.040



92, 28.078, 87.104



49, 80.502, 17.384



48, 19.233, 86.527



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, 77.058, 75.040



76, 82.507, 74.882



87, 91.932, 112.021



48, 4.859, 89.797



55, 63.818, 75.554



16, 23.325, 78.357

Inverse Universe

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



40, 92.572, 297.064



44, 99.637, 297.243



30, 123.928, 306.811



46, 4.857, 272.288



31, 75.351, 296.467



6, 26.806, 288.909

Previews

White Background



This preview shows how the CIELCh color 70, 77.068, 75.040 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, 77.068, 75.040 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, 77.068, 75.040

Background



This preview shows how black text looks on a background with the CIELCh color 70, 77.068, 75.040.



This preview shows how white text looks on a background with the CIELCh color 70, 77.068, 75.040.

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

70, 77.068, 75.040

Protanopia

70, 70.815, 95.295

Deuteranopia

70, 74.185, 83.279



Tritanopia
70, 38.400, 14.615

Trichromacy



Original Color
70, 77.068, 75.040

Protanomaly
70, 71.969, 87.441

Deuteranomaly
70, 75.051, 80.094

Tritanomaly
70, 49.100, 53.996

Monochromacy



Original Color
70, 77.068, 75.040

Achromatopsia
66, 0.008, 296.813

Achromatomaly
67, 33.604, 85.515

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 70, 77.068, 75.040 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(233, 155, 0)` looks like.

```
.text, #text, p{  
    color:rgb(233, 155, 0)  
}
```

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(233, 155, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(233, 155, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 70, 77.068, 75.040 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(233, 155, 0) }
```

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

```
.border{ border-color:rgb(233, 155, 0) }
```

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

Here you see how a box with a 4 pixel rgb(233, 155, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(233, 155, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(233, 155, 0);  
box-shadow:4px 4px 4px 4px rgb(233, 155,  
0) }
```

Background

The CSS property to change the background color of an element to CIELCh 70, 77.068, 75.040 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(233, 155, 0) }
```

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

```
.background{ background-color: rgb(233,  
155, 0) }
```

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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