

Converting Colors

CIELCh(69, 84.242, 63.238)

Have a look what the booklet for
CIELCh(69, 84.242, 63.238) contains.

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Color

CIELCh(69, 84.221, 63.300)

Conversions

Conversions Part 1

Format	Color
Hex	FF8A00
RGB	255, 138, 0
RGB Percent	100%, 54%, 0%
CMY	0.0009, 0.4595, 1.0000
CMYK	0.00, 0.46, 1.00, 0.00
HSL	32°, 100%, 50%
HSV	32°, 100%, 100%
XYZ	50.2211, 39.3444, 4.9356
YIQ	157.2510, 114.0300, -18.1140

Conversions

Conversions Part 2

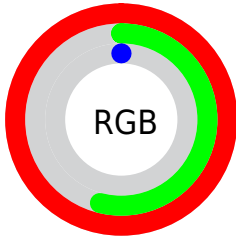
Format	Color
R _Y B	216, 255, 0
Decimal	16747008
CIE Lab	69.00, 37.84, 75.24
CIE LCh	69, 84.221, 63.300
Yxy	39.3444, 0.5314, 0.4163
Android (android.graphics.Color)	4294937088 (0xFFFF8A00)
YUV	157.2510, -77.5247, 85.7259
Hunter-Lab	62.7251, 33.1478, 39.2423

Details

The CIELCh color **69, 84.221, 63.300** is a dark color, and the websafe version is hex **FF9900**. The color can be described as dark saturated orange. A complement of this color would be **52, 79.864, 288.734**, and the grayscale version is **65, 0.008, 296.813**.

A 20% lighter version of the original color is **82, 66.544, 79.942**, and **49, 70.203, 56.587** is the 20% darker color. If you saturate the color by 10%, you get **69, 84.172, 63.284**, and if you desaturate by 10%, it is **72, 79.562, 66.179**.

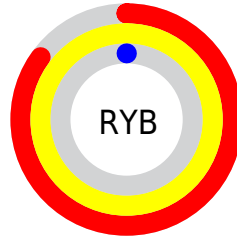
Distribution



Red (100%)

Green (54%)

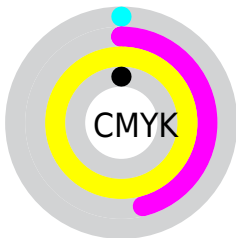
Blue (0%)



Red (85%)

Yellow (100%)

Blue (0%)

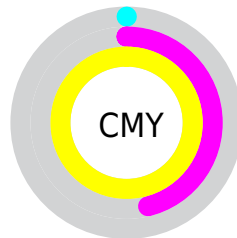


Cyan (0%)

Magenta (46%)

Yellow (100%)

Black (0%)



Cyan (0%)

Magenta (46%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 69, 84.221, 63.300 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, 84.221, 63.300 by changing the saturation by 10% instead.

 69, 84.221, 63.300

 69, 84.221, 63.300

 100, 84.221,
63.300

 59, 84.221, 63.300

 89, 84.221, 63.300

 49, 84.221, 63.300

 99, 84.221, 63.300

 39, 84.221, 63.300

 29, 84.221, 63.300

 19, 84.221, 63.300

 9, 84.221, 63.300

 0, 84.221, 63.300

 69, 84.221, 63.300

 69, 84.221, 63.300

 69, 84.172, 63.284

 72, 79.562, 66.179

74, 72.446, 68.395

77, 63.612, 70.146

80, 54.056, 71.671

83, 44.368, 73.095

86, 34.844, 74.471

90, 25.617, 75.818

93, 16.733, 77.136

96, 8.197, 78.410

Harmonies

Complementary

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



69, 84.221, 63.300



52, 79.864, 288.734

Rectangle

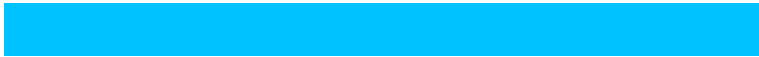
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



69, 84.221, 63.300



69, 84.221, 113.300



69, 84.221, 243.300



69, 84.221, 293.300

Sweetspot

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



69, 84.172, 63.284



90, 25.635, 75.818



55, 84.370, 6.216



46, 17.639, 75.253



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, 84.172, 63.284



69, 84.227, 63.282



96, 96.941, 104.955



51, 4.659, 78.471



53, 67.661, 63.976



17, 27.059, 65.945

Inverse Universe

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



52, 79.864, 288.734



52, 79.920, 288.736



32, 133.584, 306.353



50, 4.583, 261.053



39, 63.218, 287.945



11, 25.552, 281.725

Previews

White Background



This preview shows how the CIELCh color 69, 84.221, 63.300 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 69, 84.221, 63.300 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, 84.221, 63.300

Background



This preview shows how black text looks on a background with the CIELCh color 69, 84.221, 63.300.



This preview shows how white text looks on a background with the CIELCh color 69, 84.221, 63.300.

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, 84.221, 63.300

Protanopia

69, 68.964, 95.160

Deuteranopia

69, 73.163, 83.307



Tritanopia
69, 50.891, 20.267

Trichromacy



Original Color
69, 84.221, 63.300

Protanomaly
69, 71.513, 81.819

Deuteranomaly
69, 75.823, 75.217

Tritanomaly
69, 62.020, 46.313

Monochromacy



Original Color
69, 84.221, 63.300

Achromatopsia
65, 0.008, 296.813

Achromatomaly
65, 33.923, 73.133

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 69, 84.221, 63.300 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(255, 138, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 138, 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(255, 138, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 138, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 69, 84.221, 63.300 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(255, 138, 0) }
```

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

```
.border{ border-color:rgb(255, 138, 0) }
```

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

Here you see how a box with a 4 pixel rgb(255, 138, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 138, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 138, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 138,  
0) }
```

Background

The CSS property to change the background color of an element to CIELCh 69, 84.221, 63.300 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 138, 0) }
```

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

```
.background{ background-color: rgb(255,  
138, 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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