

Converting Colors

CIELCh(66, 86.237, 58.451)

Have a look what the booklet for
CIELCh(66, 86.237, 58.451) contains.

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Color

CIELCh(66, 86.287, 58.352)

Conversions

Conversions Part 1

Format	Color
Hex	FF7B00
RGB	255, 123, 0
RGB Percent	100%, 48%, 0%
CMY	0.0010, 0.5184, 1.0000
CMYK	0.00, 0.52, 1.00, 0.00
HSL	29°, 100%, 50%
HSV	29°, 100%, 100%
XYZ	48.1995, 35.3238, 4.2653
YIQ	148.4460, 118.1550, -10.2690

Conversions

Conversions Part 2

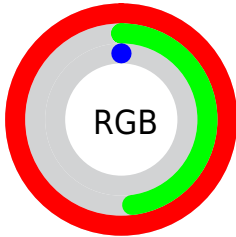
Format	Color
R_{YB}	255, 238, 0
Decimal	16743168
CIE _{Lab}	66.00, 45.27, 73.46
CIE _{LCh}	66, 86.287, 58.352
Yxy	35.3238, 0.5490, 0.4024
Android (android.graphics.Color)	4294933248 (0xFFFF7B00)
YUV	148.4460, -73.1839, 93.4479
Hunter-Lab	59.4338, 40.7502, 37.3488

Details

The CIELCh color **66, 86.287, 58.352** is a dark color, and the websafe version is hex **FF6600**. The color can be described as dark saturated orange. A complement of this color would be **56, 70.955, 283.230**, and the grayscale version is **62, 0.008, 296.813**.

A 20% lighter version of the original color is **78, 65.712, 73.352**, and **46, 73.040, 51.063** is the 20% darker color. If you saturate the color by 10%, you get **66, 86.231, 58.330**, and if you desaturate by 10%, it is **69, 80.735, 61.105**.

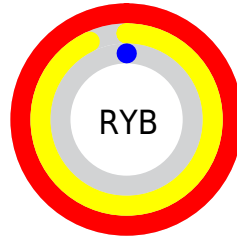
Distribution



Red (100%)

Green (48%)

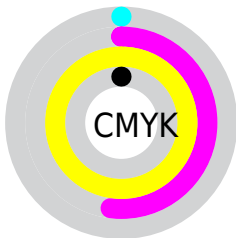
Blue (0%)



Red (100%)

Yellow (93%)

Blue (0%)

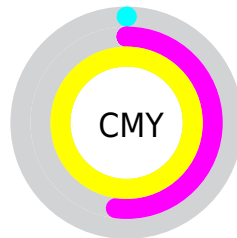


Cyan (0%)

Magenta (52%)

Yellow (100%)

Black (0%)



Cyan (0%)

Magenta (52%)

Yellow (100%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 66, 86.287, 58.352 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 66, 86.287, 58.352 by changing the saturation by 10% instead.

 66, 86.287, 58.352

 66, 86.287, 58.352

 100, 86.287,
58.352

 56, 86.287, 58.352

 86, 86.287, 58.352

 46, 86.287, 58.352

 96, 86.287, 58.352

 36, 86.287, 58.352

 26, 86.287, 58.352

 16, 86.287, 58.352

 6, 86.287, 58.352

 0, 86.287, 58.352

 66, 86.287, 58.352

 66, 86.287, 58.352

 66, 86.231, 58.330

 69, 80.735, 61.105

72, 72.808, 63.145

75, 63.374, 64.697

78, 53.443, 66.036

81, 43.568, 67.298

85, 34.006, 68.536

89, 24.860, 69.769

92, 16.154, 70.993

96, 7.875, 72.187

Harmonies

Complementary

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



66, 86.287, 58.352



56, 70.955, 283.230

Rectangle

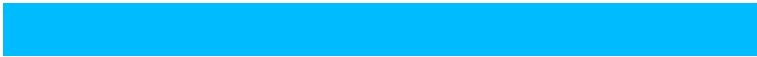
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



66, 86.287, 58.352



66, 86.287, 108.352



66, 86.287, 238.352



66, 86.287, 288.352

Sweetspot

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



66, 86.231, 58.330



89, 24.880, 69.769



55, 85.085, 359.727



46, 17.160, 69.249



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



66, 86.231, 58.330



66, 86.299, 58.328



95, 94.440, 100.667



51, 4.475, 72.244



50, 69.225, 59.039



16, 27.034, 60.042

Inverse Universe

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



56, 70.955, 283.230



56, 71.013, 283.232



33, 132.411, 306.019



51, 4.364, 254.741



42, 56.235, 282.370



12, 22.976, 275.676

Previews

White Background



This preview shows how the CIELCh color 66, 86.287, 58.352 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 66, 86.287, 58.352 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 66, 86.287, 58.352

Background



This preview shows how black text looks on a background with the CIELCh color 66, 86.287, 58.352.



This preview shows how white text looks on a background with the CIELCh color 66, 86.287, 58.352.

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

66, 86.287, 58.352

Protanopia

66, 65.803, 95.184

Deuteranopia

66, 70.646, 83.608



Tritanopia
66, 57.507, 22.559

Trichromacy



Original Color
66, 86.287, 58.352

Protanomaly
65, 69.023, 78.723

Deuteranomaly
66, 74.316, 72.689

Tritanomaly
66, 67.513, 43.258

Monochromacy



Original Color
66, 86.287, 58.352

Achromatopsia
61, 0.008, 296.813

Achromatomaly
62, 33.633, 67.628

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 66, 86.287, 58.352 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, 123, 0)` looks like.

```
.text, #text, p{  
    color:rgb(255, 123, 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, 123, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(255, 123, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 66, 86.287, 58.352 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, 123, 0) }
```

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

```
.border{ border-color:rgb(255, 123, 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, 123, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(255, 123, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(255, 123, 0);  
box-shadow:4px 4px 4px 4px rgb(255, 123,  
0) }
```

Background

The CSS property to change the background color of an element to CIELCh 66, 86.287, 58.352 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(255, 123, 0) }
```

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

```
.background{ background-color: rgb(255,  
123, 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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