

Converting Colors

CIELCh(64, 81.304, 61.169)

Have a look what the booklet for
CIELCh(64, 81.304, 61.169) contains.

CIELCh(64, 81.272, 60.960)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	11
<i>Previews</i>	20
<i>Color Blindness Simulation</i>	23
<i>CSS Examples</i>	26

Color

CIELCh(64, 81.272, 60.960)

Conversions

Conversions Part 1

Format	Color
Hex	F07B00
RGB	240, 123, 0
RGB Percent	94%, 48%, 0%
CMY	0.0577, 0.5167, 0.9981
CMYK	0.00, 0.49, 1.00, 0.06
HSL	31°, 100%, 47%
HSV	31°, 100%, 94%
XYZ	43.1486, 32.8017, 4.0709
YIQ	143.9610, 109.2150, -13.4490

Conversions

Conversions Part 2

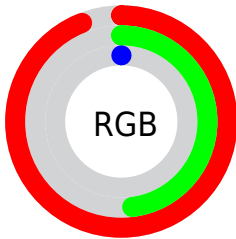
Format	Color
R _Y B	228, 240, 0
Decimal	15760128
CIE Lab	64.00, 39.45, 71.05
CIE LCh	64, 81.272, 60.960
Yxy	32.8017, 0.5392, 0.4099
Android (android.graphics.Color)	4293950208 (0xFFFF07B00)
YUV	143.9610, -70.9728, 84.2262
Hunter-Lab	57.2727, 34.2526, 35.8766

Details

The CIELCh color **64, 81.272, 60.960** is a dark color, and the websafe version is hex **FF9933**. The color can be described as dark saturated orange. A complement of this color would be **51, 71.749, 285.923**, and the grayscale version is **60, 0.008, 296.813**.

A 20% lighter version of the original color is **78, 66.016, 72.999**, and **44, 67.366, 53.887** is the 20% darker color. If you saturate the color by 10%, you get **64, 81.366, 60.907**, and if you desaturate by 10%, it is **66, 76.295, 63.760**.

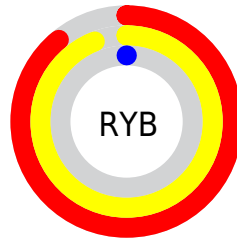
Distribution



Red (94%)

Green (48%)

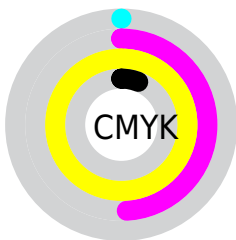
Blue (0%)



Red (89%)

Yellow (94%)

Blue (0%)

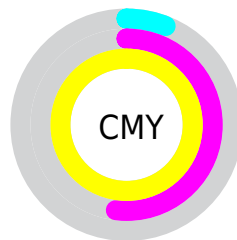


Cyan (0%)

Magenta (49%)

Yellow (100%)

Black (6%)



Cyan (6%)

Magenta (52%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 64, 81.272, 60.960 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 64, 81.272, 60.960 by changing the saturation by 10% instead.

64, 81.272, 60.960

64, 81.272, 60.960

100, 81.272,
60.960

54, 81.272, 60.960

84, 81.272, 60.960

44, 81.272, 60.960

94, 81.272, 60.960

34, 81.272, 60.960

24, 81.272, 60.960

14, 81.272, 60.960

4, 81.272, 60.960

0, 81.272, 60.960

64, 81.272, 60.960

64, 81.272, 60.960

64, 81.366, 60.907

66, 76.295, 63.760

69, 69.031, 65.872

72, 60.286, 67.523

75, 50.994, 68.961

78, 41.681, 70.311

81, 32.601, 71.624

85, 23.862, 72.920

88, 15.495, 74.195

91, 7.495, 75.431

Harmonies

Complementary

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



64, 81.272, 60.960



51, 71.749, 285.923

Rectangle

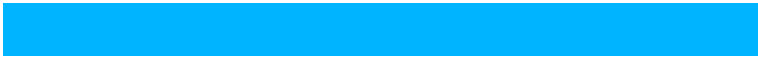
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



64, 81.272, 60.960



64, 81.272, 110.960



64, 81.272, 240.960



64, 81.272, 290.960

Sweetspot

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



64, 81.269, 60.962



89, 25.227, 72.881



52, 80.899, 2.704



46, 17.378, 72.335



0, 0.000, 0.000



53, 0.007, 296.813

Same Dimension

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



64, 81.269, 60.962



68, 85.165, 60.776



92, 92.611, 102.855



48, 4.335, 75.470



50, 66.283, 61.600



14, 23.421, 62.467

Inverse Universe

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



51, 71.749, 285.923



54, 75.455, 286.161



30, 127.838, 306.274



48, 4.247, 258.007



39, 57.759, 285.197



10, 21.832, 277.593

Previews

White Background



This preview shows how the CIELCh color 64, 81.272, 60.960 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 64, 81.272, 60.960 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 64, 81.272, 60.960

Background



This preview shows how black text looks on a background with the CIELCh color 64, 81.272, 60.960.



This preview shows how white text looks on a background with the CIELCh color 64, 81.272, 60.960.

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

64, 81.272, 60.960

Protanopia

64, 64.469, 95.361

Deuteranopia

64, 69.037, 83.431



Tritanopia
64, 53.883, 21.397

Trichromacy



Original Color
64, 81.272, 60.960

Protanomaly
63, 67.033, 80.438

Deuteranomaly
64, 72.019, 74.005

Tritanomaly
64, 63.120, 44.292

Monochromacy



Original Color
64, 81.272, 60.960

Achromatopsia
60, 0.008, 296.813

Achromatomaly
60, 31.821, 69.976

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 64, 81.272, 60.960 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(240, 123, 0)` looks like.

```
.text, #text, p{  
    color:rgb(240, 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(240, 123, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(240, 123, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 64, 81.272, 60.960 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(240, 123, 0) }
```

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

```
.border{ border-color:rgb(240, 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(240, 123, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(240, 123, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(240, 123, 0);  
box-shadow:4px 4px 4px 4px rgb(240, 123,  
0) }
```

Background

The CSS property to change the background color of an element to CIELCh 64, 81.272, 60.960 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(240, 123, 0) }
```

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

```
.background{ background-color: rgb(240,  
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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

[Learn more, Memberships starting at \\$2.50/m!](#)

**Follow me
on Twitter!**

@ConvertingColor