

Converting Colors

CIELCh(64, 80.976, 61.550)

Have a look what the booklet for
CIELCh(64, 80.976, 61.550) contains.

CIELCh(64, 80.807, 61.505)	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, 80.807, 61.505)

Conversions

Conversions Part 1

Format	Color
Hex	EF7C00
RGB	239, 124, 0
RGB Percent	94%, 49%, 0%
CMY	0.0624, 0.5134, 0.9994
CMYK	0.00, 0.48, 1.00, 0.06
HSL	31°, 100%, 47%
HSV	31°, 100%, 94%
XYZ	42.8464, 32.8017, 4.0776
YIQ	144.2490, 108.3440, -14.1840

Conversions

Conversions Part 2

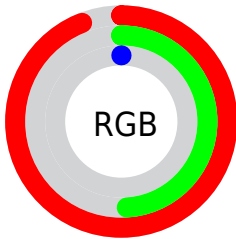
Format	Color
RYB	222, 239, 0
Decimal	15694848
CIELab	64.00, 38.55, 71.02
CIELCh	64, 80.807, 61.505
Yxy	32.8017, 0.5374, 0.4114
Android (android.graphics.Color)	4293884928 (0xFFEF7C00)
YUV	144.2490, -71.1148, 83.0966
Hunter-Lab	57.2727, 33.3105, 35.8697

Details

The CIELCh color **64, 80.807, 61.505** is a dark color, and the websafe version is hex **FF9933**. The color can be described as dark washed orange. A complement of this color would be **50, 72.526, 286.588**, and the grayscale version is **60, 0.008, 296.813**.

A 20% lighter version of the original color is **78, 66.092, 73.492**, and **44, 67.163, 54.275** is the 20% darker color. If you saturate the color by 10%, you get **64, 80.837, 61.489**, and if you desaturate by 10%, it is **66, 75.953, 64.316**.

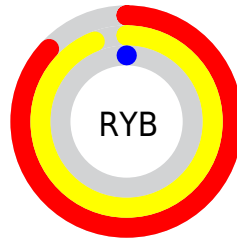
Distribution



Red (94%)

Green (49%)

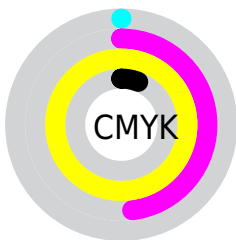
Blue (0%)



Red (87%)

Yellow (94%)

Blue (0%)

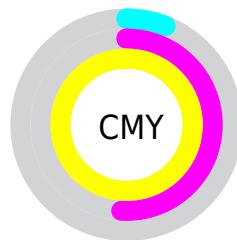


Cyan (0%)

Magenta (48%)

Yellow (100%)

Black (6%)



Cyan (6%)

Magenta (51%)

Yellow (100%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 64, 80.807, 61.505 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, 80.807, 61.505 by changing the saturation by 10% instead.

64, 80.807, 61.505

64, 80.807, 61.505

100, 80.807,
61.505

54, 80.807, 61.505

84, 80.807, 61.505

44, 80.807, 61.505

94, 80.807, 61.505

34, 80.807, 61.505

24, 80.807, 61.505

14, 80.807, 61.505

4, 80.807, 61.505

0, 80.807, 61.505

64, 80.807, 61.505

64, 80.807, 61.505

64, 80.837, 61.489

66, 75.953, 64.316

69, 68.829, 66.454

72, 60.194, 68.129

75, 50.982, 69.589

78, 41.724, 70.956

81, 32.681, 72.285

84, 23.962, 73.592

88, 15.605, 74.878

91, 7.604, 76.123

Harmonies

Complementary

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



64, 80.807, 61.505



50, 72.526, 286.588

Rectangle

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



64, 80.807, 61.505



64, 80.807, 111.505



64, 80.807, 241.505



64, 80.807, 291.505

Sweetspot

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



64, 80.805, 61.507



89, 25.315, 73.570



51, 80.467, 4.370



46, 17.434, 73.019



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, 80.805, 61.507



68, 84.932, 61.347



91, 92.313, 103.902



48, 4.355, 76.178



50, 66.115, 62.168



14, 23.430, 63.179

Inverse Universe

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



50, 72.526, 286.588



53, 76.478, 286.781



30, 127.342, 306.318



48, 4.272, 258.724



39, 58.534, 285.826



10, 22.092, 278.284

Previews

White Background



This preview shows how the CIELCh color 64, 80.807, 61.505 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, 80.807, 61.505 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, 80.807, 61.505

Background



This preview shows how black text looks on a background with the CIELCh color 64, 80.807, 61.505.



This preview shows how white text looks on a background with the CIELCh color 64, 80.807, 61.505.

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, 80.807, 61.505

Protanopia

64, 64.680, 95.363

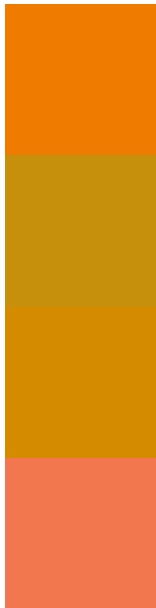
Deuteranopia

64, 69.037, 83.431



Tritanopia
64, 53.479, 21.312

Trichromacy



Original Color
64, 80.807, 61.505

Protanomaly
63, 66.991, 80.829

Deuteranomaly
64, 71.767, 74.308

Tritanomaly
64, 62.710, 44.396

Monochromacy



Original Color
64, 80.807, 61.505

Achromatopsia
60, 0.008, 296.813

Achromatomaly
60, 31.943, 71.115

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 64, 80.807, 61.505 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(239, 124, 0)` looks like.

```
.text, #text, p{  
    color:rgb(239, 124, 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(239, 124, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(239, 124, 0) }
```

Border

The CSS property to change the border of an element to CIELCh 64, 80.807, 61.505 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(239, 124, 0) }
```

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

```
.border{ border-color:rgb(239, 124, 0) }
```

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

Here you see how a box with a 4 pixel rgb(239, 124, 0) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(239, 124, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(239, 124, 0);  
box-shadow:4px 4px 4px 4px rgb(239, 124,  
0) }
```

Background

The CSS property to change the background color of an element to CIELCh 64, 80.807, 61.505 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(239, 124, 0) }
```

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

```
.background{ background-color: rgb(239,  
124, 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