

Converting Colors

CIELCh(64, 75.996, 64.581)

Have a look what the booklet for
CIELCh(64, 75.996, 64.581) contains.

CIELCh(64, 76.085, 64.405)	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, 76.085, 64.405)

Conversions

Conversions Part 1

Format	Color
Hex	E7810C
RGB	231, 129, 12
RGB Percent	91%, 51%, 5%
CMY	0.0933, 0.4934, 0.9514
CMYK	0.00, 0.44, 0.95, 0.09
HSL	32°, 90%, 48%
HSV	32°, 95%, 91%
XYZ	40.9693, 32.8017, 4.5321
YIQ	146.1600, 98.3490, -14.7630

Conversions

Conversions Part 2

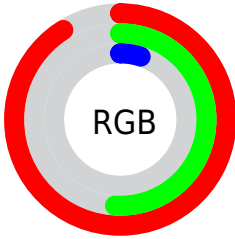
Format	Color
R _Y B	203, 231, 12
Decimal	15171852
CIE Lab	64.00, 32.87, 68.62
CIE LCh	64, 76.085, 64.405
Yxy	32.8017, 0.5232, 0.4189
Android (android.graphics.Color)	4293361932 (0xFFE7810C)
YUV	146.1600, -66.1409, 74.4047
Hunter-Lab	57.2727, 27.4603, 35.3992

Details

The CIELCh color **64, 76.085, 64.405** 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 **49, 68.682, 285.576**, and the grayscale version is **61, 0.008, 296.813**.

A 20% lighter version of the original color is **79, 64.622, 75.294**, and **44, 63.246, 58.035** is the 20% darker color. If you saturate the color by 10%, you get **63, 78.347, 62.866**, and if you desaturate by 10%, it is **66, 70.399, 66.897**.

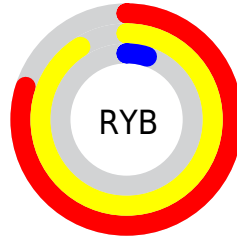
Distribution



Red (91%)

Green (51%)

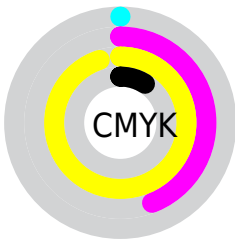
Blue (5%)



Red (80%)

Yellow (91%)

Blue (5%)

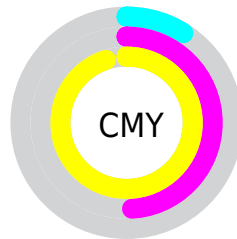


Cyan (0%)

Magenta (44%)

Yellow (95%)

Black (9%)



Cyan (9%)

Magenta (49%)

Yellow (95%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 64, 76.085, 64.405 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, 76.085, 64.405 by changing the saturation by 10% instead.

 64, 76.085, 64.405

 64, 76.085, 64.405

 100, 76.085,
64.405

 54, 76.085, 64.405

 84, 76.085, 64.405

 44, 76.085, 64.405

 94, 76.085, 64.405

 34, 76.085, 64.405

 24, 76.085, 64.405

 14, 76.085, 64.405

 4, 76.085, 64.405

 0, 76.085, 64.405

 64, 76.085, 64.405

 64, 76.085, 64.405

 63, 78.347, 62.866

 66, 70.399, 66.897

69, 62.693, 68.780

72, 54.007, 70.356

75, 45.033, 71.791

78, 36.134, 73.163

81, 27.482, 74.504

84, 19.146, 75.820

87, 11.141, 77.104

90, 3.457, 78.297

Harmonies

Complementary

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



64, 76.085, 64.405



49, 68.682, 285.576

Rectangle

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



64, 76.085, 64.405



64, 76.085, 114.405



64, 76.085, 244.405



64, 76.085, 294.405

Sweetspot

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



64, 76.083, 64.408



90, 23.725, 75.361



50, 77.648, 3.529



47, 16.528, 74.789



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, 76.083, 64.408



69, 84.444, 62.649



89, 89.089, 104.927



46, 4.249, 77.747



49, 64.382, 63.543



13, 20.977, 64.336

Inverse Universe

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



49, 68.682, 285.576



52, 78.799, 288.120



30, 121.654, 306.023



46, 4.176, 260.297



37, 58.921, 287.092



8, 20.968, 278.754

Previews

White Background



This preview shows how the CIELCh color 64, 76.085, 64.405 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, 76.085, 64.405 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, 76.085, 64.405

Background



This preview shows how black text looks on a background with the CIELCh color 64, 76.085, 64.405.



This preview shows how white text looks on a background with the CIELCh color 64, 76.085, 64.405.

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, 76.085, 64.405

Protanopia

64, 64.250, 95.359

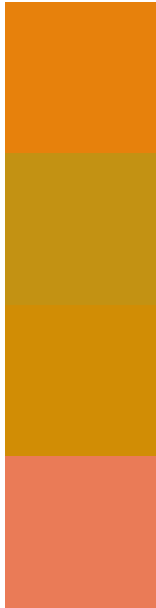
Deuteranopia

64, 69.037, 83.431



Tritanopia
64, 48.206, 19.365

Trichromacy



Original Color
64, 76.085, 64.405

Protanomaly
64, 65.538, 82.686

Deuteranomaly
64, 70.371, 75.959

Tritanomaly
64, 55.590, 44.247

Monochromacy



Original Color
64, 76.085, 64.405

Achromatopsia
61, 0.008, 296.813

Achromatomaly
61, 29.475, 73.560

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 64, 76.085, 64.405 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(231, 129, 12)` looks like.

```
.text, #text, p{  
    color:rgb(231, 129, 12)  
}
```

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(231, 129, 12) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(231, 129, 12) }
```

Border

The CSS property to change the border of an element to CIELCh 64, 76.085, 64.405 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(231, 129, 12) }
```

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

```
.border{ border-color:rgb(231, 129, 12) }
```

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

Here you see how a box with a 4 pixel `rgb(231, 129, 12)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(231, 129, 12); -webkit-box-  
shadow:4px 4px 4px 4px rgb(231, 129, 12);  
box-shadow:4px 4px 4px 4px rgb(231, 129,  
12) }
```

Background

The CSS property to change the background color of an element to CIELCh 64, 76.085, 64.405 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(231, 129, 12) }
```

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

```
.background{ background-color: rgb(231,  
129, 12) }
```

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