

# Converting Colors

CIELCh(64, 73.463, 71.772)

Have a look what the booklet for  
CIELCh(64, 73.463, 71.772) contains.

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# **Color**

**CIELCh(64, 73.356, 71.665)**

# Conversions

## Conversions Part 1

| Format      | Color                       |
|-------------|-----------------------------|
| Hex         | DA8900                      |
| RGB         | 218, 137, 0                 |
| RGB Percent | 85%, 54%, 0%                |
| CMY         | 0.1451, 0.4627, 0.9999      |
| CMYK        | 0.00, 0.37, 1.00, 0.15      |
| HSL         | 38°, 100%, 43%              |
| HSV         | 38°, 100%, 85%              |
| XYZ         | 37.8643, 32.8017, 4.3363    |
| YIQ         | 145.6010, 92.2530, -25.4350 |

# Conversions

## Conversions Part 2

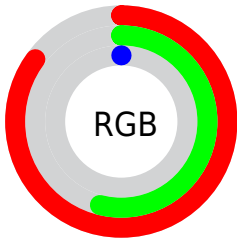
| Format                              | Color  |
|-------------------------------------|--|
| <a href="#">RYB</a>                 | <a href="#">129, 218, 0</a>                                  |
| Decimal                             | <a href="#">14321920</a>                                     |
| <a href="#">CIELab</a>              | <a href="#">64.00, 23.08, 69.63</a>                          |
| <a href="#">CIElCh</a>              | <a href="#">64, 73.356, 71.665</a>                           |
| <a href="#">Yxy</a>                 | <a href="#">32.8017, 0.5048,<br/>0.4373</a>                  |
| Android<br>(android.graphics.Color) | <a href="#">4292512000</a><br>( <a href="#">0xFFDA8900</a> ) |
| <a href="#">YUV</a>                 | <a href="#">145.6010, -71.7813,<br/>63.4939</a>              |
| <a href="#">Hunter-Lab</a>          | <a href="#">57.2727, 17.7830,<br/>35.6019</a>                |

# Details

The CIELCh color **64, 73.356, 71.665** 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 **39, 82.534, 294.745**, and the grayscale version is **61, 0.008, 296.813**.

A 20% lighter version of the original color is **81, 67.021, 79.192**, and **44, 58.129, 65.721** is the 20% darker color. If you saturate the color by 10%, you get **64, 73.359, 71.664**, and if you desaturate by 10%, it is **66, 70.025, 74.270**.

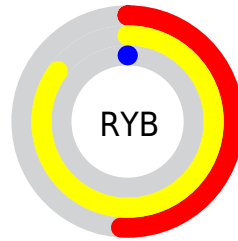
# Distribution



Red (85%)

Green (54%)

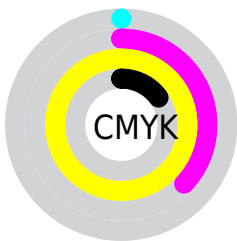
Blue (0%)



Red (51%)

Yellow (85%)

Blue (0%)

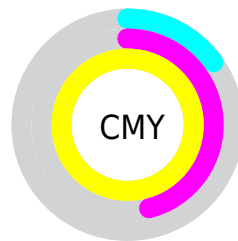


Cyan (0%)

Magenta (37%)

Yellow (100%)

Black (15%)



Cyan (15%)

Magenta (46%)

Yellow (100%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 64, 73.356, 71.665 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, 73.356, 71.665 by changing the saturation by 10% instead.



64, 73.356, 71.665

64, 73.356, 71.665

100, 73.356,  
71.665

54, 73.356, 71.665

84, 73.356, 71.665

44, 73.356, 71.665

94, 73.356, 71.665

34, 73.356, 71.665

24, 73.356, 71.665

14, 73.356, 71.665

4, 73.356, 71.665

0, 73.356, 71.665

64, 73.356, 71.665

64, 73.356, 71.665

64, 73.359, 71.664

66, 70.025, 74.270

68, 64.541, 76.395

70, 57.347, 78.163

72, 49.265, 79.742

75, 40.833, 81.224

77, 32.351, 82.647

79, 23.974, 84.027

82, 15.772, 85.366

84, 7.773, 86.651

# Harmonies

# Complementary

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



64, 73.356, 71.665



39, 82.534, 294.745

# Rectangle

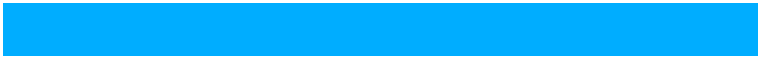
The Rectangle color scheme consists of four colors that form a rectangle on the color wheel.



64, 73.356, 71.665



64, 73.356, 121.665



64, 73.356, 251.665



64, 73.356, 301.665

# Sweetspot

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



64, 73.354, 71.668



91, 27.246, 83.989



46, 75.719, 13.923



47, 18.686, 83.407



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, 73.354, 71.668



74, 82.596, 71.353



83, 86.932, 110.025



45, 4.437, 86.720



52, 61.815, 72.203



12, 19.045, 74.496





# Inverse Universe

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



39, 82.534, 294.745



46, 93.796, 295.096



28, 118.181, 306.648



43, 4.417, 269.238



31, 68.443, 294.134



5, 21.664, 283.457



# Previews

## White Background



This preview shows how the CIELCh color 64, 73.356, 71.665 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, 73.356, 71.665 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, 73.356, 71.665

## Background



This preview shows how black text looks on a background with the CIELCh color 64, 73.356, 71.665.



This preview shows how white text looks on a background with the CIELCh color 64, 73.356, 71.665.

# 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, 73.356, 71.665

### Protanopia

64, 65.451, 95.369

### Deuteranopia

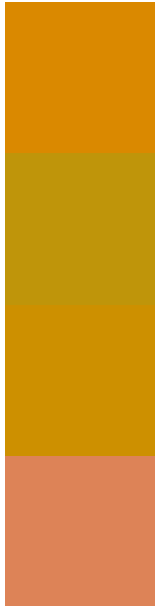
64, 69.037, 83.431



**Tritanopia**  
64, 39.626, 16.079



# Trichromacy



**Original Color**  
64, 73.356, 71.665

**Protanomaly**  
64, 66.784, 85.895

**Deuteranomaly**  
64, 70.278, 78.815

**Tritanomaly**  
64, 49.034, 51.417

# Monochromacy



**Original Color**  
64, 73.356, 71.665

**Achromatopsia**  
61, 0.008, 296.813

**Achromatomaly**  
61, 30.900, 82.301

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 64, 73.356, 71.665 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(218, 137, 0)` looks like.

```
.text, #text, p{  
    color:rgb(218, 137, 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(218, 137, 0) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(218, 137, 0) }
```

## Border

The CSS property to change the border of an element to CIELCh 64, 73.356, 71.665 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(218, 137, 0) }
```

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

```
.border{ border-color:rgb(218, 137, 0) }
```

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

Here you see how a box with a 4 pixel `rgb(218, 137, 0)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(218, 137, 0); -webkit-box-  
shadow:4px 4px 4px 4px rgb(218, 137, 0);  
box-shadow:4px 4px 4px 4px rgb(218, 137,  
0) }
```

# Background

The CSS property to change the background color of an element to CIELCh 64, 73.356, 71.665 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(218, 137, 0) }
```

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

```
.background{ background-color: rgb(218,  
137, 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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