

# Converting Colors

CIELCh(64, 49.777, 56.177)

Have a look what the booklet for  
CIELCh(64, 49.777, 56.177) contains.

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# Color

**CIELCh(64, 49.821, 56.035)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	DB8652
RGB	219, 134, 82
RGB Percent	86%, 53%, 32%
CMY	0.1404, 0.4738, 0.6778
CMYK	0.00, 0.39, 0.63, 0.14
HSL	23°, 66%, 59%
HSV	23°, 63%, 86%
XYZ	39.3526, 32.8017, 12.2728
YIQ	153.4870, 67.3520, 1.8480

# Conversions

## Conversions Part 2

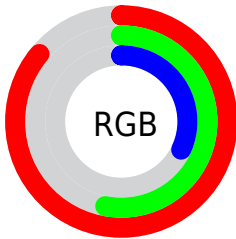
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	219, 166, 82
Decimal	14386770
CIE Lab	64.00, 27.83, 41.32
CIE LCh	64, 49.821, 56.035
Yxy	32.8017, 0.4661, 0.3885
Android (android.graphics.Color)	4292576850 (0xFFDB8652)
YUV	153.4870, -35.2431, 57.4549
Hunter-Lab	57.2727, 22.4216, 27.3858

# Details

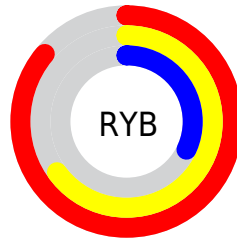
The CIELCh color **64, 49.821, 56.035** is a dark color, and the websafe version is hex **FF9966**. The color can be described as middle muted orange. A complement of this color would be **65, 35.461, 253.468**, and the grayscale version is **64, 0.008, 296.813**.

A 20% lighter version of the original color is **81, 41.263, 64.396**, and **44, 50.108, 55.671** is the 20% darker color. If you saturate the color by 10%, you get **61, 59.293, 55.286**, and if you desaturate by 10%, it is **67, 40.570, 56.773**.

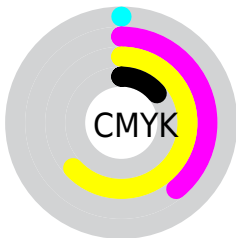
# Distribution



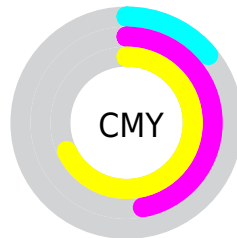
- Red (86%)
- Green (53%)
- Blue (32%)



- Red (86%)
- Yellow (65%)
- Blue (32%)



- Cyan (0%)
- Magenta (39%)
- Yellow (63%)
- Black (14%)



- Cyan (14%)
- Magenta (47%)
- Yellow (68%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 64, 49.821, 56.035 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, 49.821, 56.035 by changing the saturation by 10% instead.



64, 49.821, 56.035

64, 49.821, 56.035

100, 49.821,  
56.035

54, 49.821, 56.035

84, 49.821, 56.035

44, 49.821, 56.035

94, 49.821, 56.035

34, 49.821, 56.035

24, 49.821, 56.035

14, 49.821, 56.035

4, 49.821, 56.035

0, 49.821, 56.035

64, 49.821, 56.035

64, 49.821, 56.035

61, 59.293, 55.286

67, 40.570, 56.773

58, 68.481, 54.353

71, 31.762, 57.550

55, 76.372, 52.882

75, 23.473, 58.382

53, 81.046, 51.393

79, 15.710, 59.261

82, 8.446, 60.161

86, 1.640, 60.872

90, 4.755, 242.235

94, 9.988, 237.404

98, 12.061,  
198.700

# Harmonies

# Complementary

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



64, 49.821, 56.035



65, 35.461, 253.468

# Rectangle

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



64, 49.821, 56.035



64, 49.821, 106.035



64, 49.821, 236.035



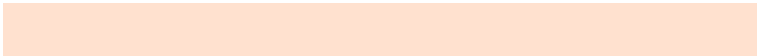
64, 49.821, 286.035

# Sweetspot

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



64, 49.820, 56.039



91, 14.820, 59.562



56, 65.060, 343.012



48, 10.299, 59.303



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, 49.820, 56.039



69, 69.760, 55.026



80, 60.362, 97.193



44, 3.793, 60.433



42, 67.674, 52.003



9, 18.862, 46.396





# Inverse Universe

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



65, 35.461, 253.468



71, 46.146, 258.413



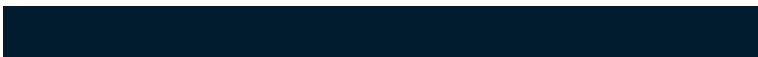
47, 69.700, 295.197



44, 3.644, 242.483



44, 42.215, 269.169



9, 15.039, 258.468



# Previews

## White Background



This preview shows how the CIELCh color 64, 49.821, 56.035 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, 49.821, 56.035 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

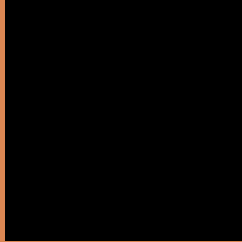
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 64, 49.821, 56.035**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 64, 49.821, 56.035.



This preview shows how white text looks on a background with the CIELCh color 64, 49.821, 56.035.

# 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, 49.821, 56.035

### Protanopia

64, 36.582, 95.811

### Deuteranopia

64, 42.955, 78.930



**Tritanopia**  
64, 39.210, 16.708



# Trichromacy



**Original Color**  
64, 49.821, 56.035

**Protanomaly**  
64, 38.712, 78.003

**Deuteranomaly**  
64, 44.474, 69.832

**Tritanomaly**  
64, 40.720, 33.348

# Monochromacy



**Original Color**  
64, 49.821, 56.035

**Achromatopsia**  
64, 0.008, 296.813

**Achromatomaly**  
63, 16.841, 58.847

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 64, 49.821, 56.035 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(219, 134, 82)` looks like.

```
.text, #text, p{  
    color:rgb(219, 134, 82)  
}
```

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(219, 134, 82) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(219, 134, 82) }
```

## Border

The CSS property to change the border of an element to CIELCh 64, 49.821, 56.035 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(219, 134, 82) }
```

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

```
.border{ border-color:rgb(219, 134, 82) }
```

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

Here you see how a box with a 4 pixel `rgb(219, 134, 82)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(219, 134, 82); -webkit-box-  
shadow:4px 4px 4px 4px rgb(219, 134, 82);  
box-shadow:4px 4px 4px 4px rgb(219, 134,  
82) }
```

# Background

The CSS property to change the background color of an element to CIELCh 64, 49.821, 56.035 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(219, 134, 82) }
```

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

```
.background{ background-color: rgb(219,  
134, 82) }
```

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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