

# Converting Colors

CIELCh(72, 45.714, 64.453)

Have a look what the booklet for  
CIELCh(72, 45.714, 64.453) contains.

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# Color

**CIELCh(72, 45.389, 64.173)**

# Conversions

## Conversions Part 1

Format	Color
Hex	E7A166
RGB	231, 161, 102
RGB Percent	91%, 63%, 40%
CMY	0.0924, 0.3670, 0.5985
CMYK	0.00, 0.30, 0.56, 0.09
HSL	27°, 73%, 65%
HSV	27°, 56%, 91%
XYZ	48.3306, 43.6590, 18.5481
YIQ	175.2040, 60.6590, -3.5090

# Conversions

## Conversions Part 2

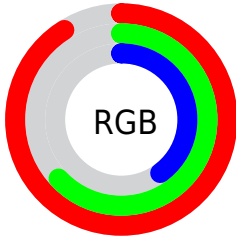
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	231, 211, 102
Decimal	15180134
CIE <sub>Lab</sub>	72.00, 19.77, 40.86
CIE <sub>LCh</sub>	72, 45.389, 64.173
Yxy	43.6590, 0.4372, 0.3950
Android (android.graphics.Color)	4293370214 (0xFFE7A166)
YUV	175.2040, -36.0896, 48.9331
Hunter-Lab	66.0750, 14.9328, 29.6090

# Details

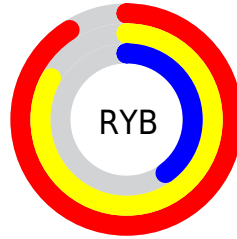
The CIELCh color **72, 45.389, 64.173** is a light color, and the websafe version is hex **CC9966**. A complement of this color would be **68, 36.715, 261.719**, and the grayscale version is **72, 0.009, 296.813**.

A 20% lighter version of the original color is **88, 36.024, 81.362**, and **52, 45.373, 63.975** is the 20% darker color. If you saturate the color by 10%, you get **69, 54.724, 62.996**, and if you desaturate by 10%, it is **75, 36.296, 65.327**.

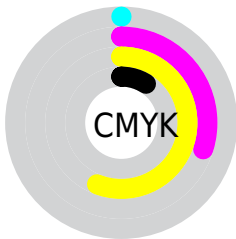
# Distribution



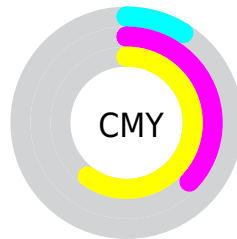
- Red (91%)
- Green (63%)
- Blue (40%)



- Red (91%)
- Yellow (83%)
- Blue (40%)



- Cyan (0%)
- Magenta (30%)
- Yellow (56%)
- Black (9%)



- Cyan (9%)
- Magenta (37%)
- Yellow (60%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 72, 45.389, 64.173 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 72, 45.389, 64.173 by changing the saturation by 10% instead.



 72, 45.389, 64.173

 72, 45.389, 64.173

 100, 45.389,  
64.173

 62, 45.389, 64.173

 92, 45.389, 64.173

 52, 45.389, 64.173

 42, 45.389, 64.173

 32, 45.389, 64.173

 22, 45.389, 64.173

 12, 45.389, 64.173

 2, 45.389, 64.173

 0, 45.389, 64.173

 72, 45.389, 64.173

 72, 45.389, 64.173

69, 54.724, 62.996

75, 36.296, 65.327

66, 63.955, 61.693

79, 27.596, 66.479

63, 72.370, 60.061

82, 19.335, 67.637

60, 78.808, 57.724

86, 11.510, 68.791

59, 81.059, 56.624

90, 4.095, 69.886

93, 2.946, 251.298

97, 6.702, 224.871

98, 8.040, 198.979

# Harmonies

# Complementary

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



72, 45.389, 64.173



68, 36.715, 261.719

# Rectangle

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



72, 45.389, 64.173



72, 45.389, 114.173



72, 45.389, 244.173



72, 45.389, 294.173

# Sweetspot

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



72, 45.388, 64.177



93, 13.475, 68.639



61, 59.086, 346.895



49, 9.063, 68.407



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



72, 45.388, 64.177



75, 60.486, 62.800



88, 61.060, 102.514



46, 4.048, 69.501



46, 66.443, 57.316



11, 20.984, 55.962





# Inverse Universe

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



68, 36.715, 261.719



70, 46.854, 265.719



51, 70.881, 296.978



46, 3.933, 251.906



41, 50.563, 279.422



9, 18.392, 270.355



# Previews

## White Background



This preview shows how the CIELCh color 72, 45.389, 64.173 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 72, 45.389, 64.173 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

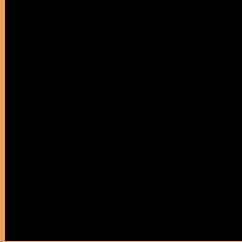
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 72, 45.389, 64.173

## Background



This preview shows how black text looks on a background with the CIELCh color 72, 45.389, 64.173.



This preview shows how white text looks on a background with the CIELCh color 72, 45.389, 64.173.

# 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





**Tritanopia**  
72, 32.832, 12.360



# Trichromacy



**Original Color**  
72, 45.389, 64.173

**Protanomaly**  
72, 38.541, 82.729

**Deuteranomaly**  
72, 43.043, 71.850

**Tritanomaly**  
72, 33.306, 36.025

# Monochromacy



**Original Color**  
72, 45.389, 64.173

**Achromatopsia**  
72, 0.009, 296.813

**Achromatomaly**  
72, 15.702, 69.046

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 72, 45.389, 64.173 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, 161, 102)` looks like.

```
.text, #text, p{  
    color:rgb(231, 161, 102)  
}
```

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, 161, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(231, 161, 102) }
```

## Border

The CSS property to change the border of an element to CIELCh 72, 45.389, 64.173 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, 161, 102) }
```

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

```
.border{ border-color:rgb(231, 161, 102) }
```

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

Here you see how a box with a 4 pixel rgb(231, 161, 102) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(231, 161, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(231, 161, 102);  
box-shadow:4px 4px 4px 4px rgb(231, 161,  
102) }
```

# Background

The CSS property to change the background color of an element to CIELCh 72, 45.389, 64.173 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(231, 161, 102) }
```

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

```
.background{ background-color: rgb(231,  
161, 102) }
```

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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