

# Converting Colors

CIELCh(66, 50.961, 59.600)

Have a look what the booklet for  
CIELCh(66, 50.961, 59.600) contains.

<b>CIELCh(66, 50.885, 59.623)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	11
<b><i>Previews</i></b> .....	20
<b><i>Color Blindness Simulation</i></b> .....	23
<b><i>CSS Examples</i></b> .....	26

# Color

**CIELCh(66, 50.885, 59.623)**

# Conversions

## Conversions Part 1

Format	Color
Hex	DF8D52
RGB	223, 141, 82
RGB Percent	87%, 55%, 32%
CMY	0.1257, 0.4472, 0.6786
CMYK	0.00, 0.37, 0.63, 0.13
HSL	25°, 69%, 60%
HSV	25°, 63%, 87%
XYZ	41.4539, 35.3238, 12.6071
YIQ	158.7920, 67.8110, -0.9650

# Conversions

## Conversions Part 2

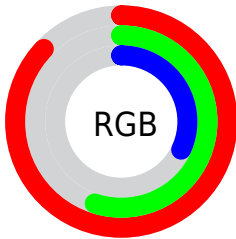
Format	Color
R <sub>Y</sub> B	223, 183, 82
Decimal	14650706
CIE Lab	66.00, 25.73, 43.90
CIE LCh	66, 50.885, 59.623
Yxy	35.3238, 0.4638, 0.3952
Android (android.graphics.Color)	4292840786 (0xFFDF8D52)
YUV	158.7920, -37.8585, 56.3104
Hunter-Lab	59.4338, 20.4909, 29.0271

# Details

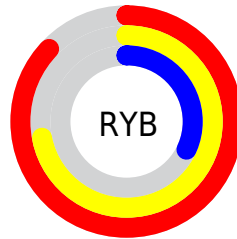
The CIELCh color **66, 50.885, 59.623** is a dark color, and the websafe version is hex **FF9966**. The color can be described as middle muted orange. A complement of this color would be **65, 37.951, 259.168**, and the grayscale version is **66, 0.008, 296.813**.

A 20% lighter version of the original color is **83, 41.814, 70.181**, and **46, 50.887, 59.742** is the 20% darker color. If you saturate the color by 10%, you get **63, 60.201, 58.596**, and if you desaturate by 10%, it is **69, 41.681, 60.597**.

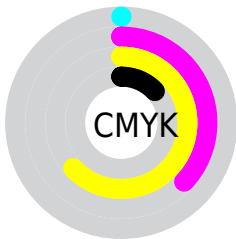
# Distribution



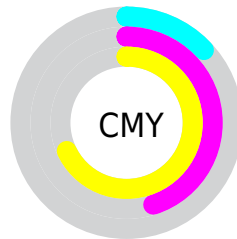
- Red (87%)
- Green (55%)
- Blue (32%)



- Red (87%)
- Yellow (72%)
- Blue (32%)



- Cyan (0%)
- Magenta (37%)
- Yellow (63%)
- Black (13%)



- Cyan (13%)
- Magenta (45%)
- Yellow (68%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 66, 50.885, 59.623 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 66, 50.885, 59.623 by changing the saturation by 10% instead.



66, 50.885, 59.623

66, 50.885, 59.623

100, 50.885,  
59.623

56, 50.885, 59.623

86, 50.885, 59.623

46, 50.885, 59.623

96, 50.885, 59.623

36, 50.885, 59.623

26, 50.885, 59.623

16, 50.885, 59.623

6, 50.885, 59.623

0, 50.885, 59.623

66, 50.885, 59.623

66, 50.885, 59.623

63, 60.201, 58.596

69, 41.681, 60.597

60, 69.072, 57.332

73, 32.847, 61.575

57, 76.450, 55.482

76, 24.477, 62.582

56, 80.370, 53.902

80, 16.589, 63.614

84, 9.167, 64.652

88, 2.173, 65.557

91, 4.433, 246.943

95, 8.956, 235.481

98, 10.845,  
198.782

# Harmonies

# Complementary

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



66, 50.885, 59.623



65, 37.951, 259.168

# Rectangle

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



66, 50.885, 59.623



66, 50.885, 109.623



66, 50.885, 239.623



66, 50.885, 289.623

# Sweetspot

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



66, 50.884, 59.627



92, 14.936, 64.040



56, 64.648, 346.029



48, 10.371, 63.740



0, 0.000, 0.000



53, 0.007, 296.813



# Same Dimension

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



66, 50.884, 59.627



70, 70.002, 58.214



83, 64.266, 100.047



45, 3.908, 65.036



44, 67.018, 54.533



10, 19.880, 51.250





# Inverse Universe

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



65, 37.951, 259.168



68, 49.328, 264.357



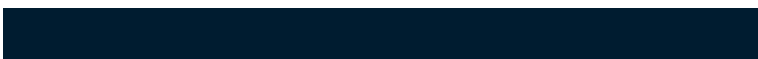
46, 76.043, 297.455



45, 3.775, 247.289



42, 46.173, 274.633

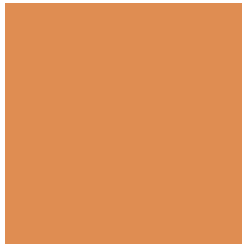


9, 16.589, 264.711



# Previews

## White Background



This preview shows how the CIELCh color 66, 50.885, 59.623 looks on a white background.

## Color Contrast Check

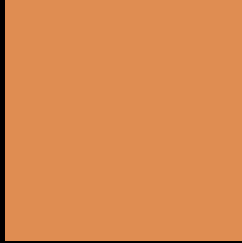
Large Text (above 18pt) WCAG AA × Fail

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 66, 50.885, 59.623 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

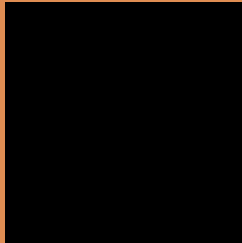
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

# CIELCh 66, 50.885, 59.623

## Background



This preview shows how black text looks on a background with the CIELCh color 66, 50.885, 59.623.



This preview shows how white text looks on a background with the CIELCh color 66, 50.885, 59.623.

# 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**

66, 50.885, 59.623

**Protanopia**

66, 39.540, 95.730

**Deuteranopia**

66, 45.493, 79.201



**Tritanopia**  
66, 38.073, 15.443



# Trichromacy



**Original Color**  
66, 50.885, 59.623

**Protanomaly**  
66, 41.535, 80.556

**Deuteranomaly**  
66, 46.767, 71.799

**Tritanomaly**  
66, 39.657, 35.586

# Monochromacy



**Original Color**  
66, 50.885, 59.623

**Achromatopsia**  
65, 0.008, 296.813

**Achromatomaly**  
65, 17.172, 62.407

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 66, 50.885, 59.623 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(223, 141, 82)` looks like.

```
.text, #text, p{  
    color:rgb(223, 141, 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(223, 141, 82) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(223, 141, 82) }
```

## Border

The CSS property to change the border of an element to CIELCh 66, 50.885, 59.623 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(223, 141, 82) }
```

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

```
.border{ border-color:rgb(223, 141, 82) }
```

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

Here you see how a box with a 4 pixel `rgb(223, 141, 82)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(223, 141, 82); -webkit-box-  
shadow:4px 4px 4px 4px rgb(223, 141, 82);  
box-shadow:4px 4px 4px 4px rgb(223, 141,  
82) }
```

# Background

The CSS property to change the background color of an element to CIELCh 66, 50.885, 59.623 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(223, 141, 82) }
```

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

```
.background{ background-color: rgb(223,  
141, 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](#).

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