

# Converting Colors

CIELCh(49, 53.556, 58.672)

Have a look what the booklet for  
CIELCh(49, 53.556, 58.672) contains.

<b>CIELCh(49, 53.432, 58.862)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	11
<i><b>Previews</b></i> .....	20
<i><b>Color Blindness Simulation</b></i> .....	23
<i><b>CSS Examples</b></i> .....	26

# Color

**CIELCh(49, 53.432, 58.862)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	AF6025
RGB	175, 96, 37
RGB Percent	69%, 38%, 15%
CMY	0.3140, 0.6237, 0.8551
CMYK	0.00, 0.45, 0.79, 0.31
HSL	26°, 65%, 42%
HSV	26°, 79%, 69%
XYZ	22.1740, 17.5941, 3.9729
YIQ	112.8950, 66.0230, -1.6010

# Conversions

## Conversions Part 2

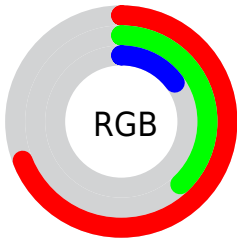
<b>Format</b>	<b>Color</b>
<b>RYB</b>	175, 140, 37
Decimal	11493413
CIELab	49.00, 27.63, 45.73
CIELCh	49, 53.432, 58.862
Yxy	17.5941, 0.5069, 0.4022
Android (android.graphics.Color)	4289683493 (0xFFAF6025)
YUV	112.8950, -37.4162, 54.4661
Hunter-Lab	41.9453, 20.9581, 23.7460

# Details

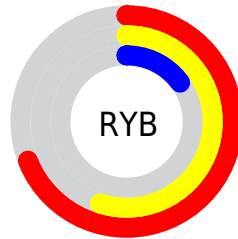
The CIELCh color **49, 53.432, 58.862** is a dark color, and the websafe version is hex **CC6633**. A complement of this color would be **47, 38.144, 266.025**, and the grayscale version is **48, 0.006, 296.813**.

A 20% lighter version of the original color is **69, 53.354, 58.735**, and **29, 49.105, 55.164** is the 20% darker color. If you saturate the color by 10%, you get **47, 60.233, 57.365**, and if you desaturate by 10%, it is **51, 45.930, 60.011**.

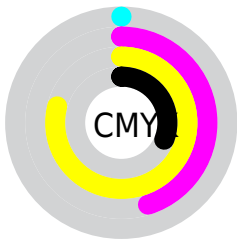
# Distribution



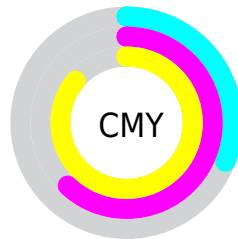
- Red (69%)
- Green (38%)
- Blue (15%)



- Red (69%)
- Yellow (55%)
- Blue (15%)



- Cyan (0%)
- Magenta (45%)
- Yellow (79%)
- Black (31%)



- Cyan (31%)
- Magenta (62%)
- Yellow (86%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 49, 53.432, 58.862 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 49, 53.432, 58.862 by changing the saturation by 10% instead.



 49, 53.432, 58.862

 49, 53.432, 58.862

 100, 53.432,  
58.862

 39, 53.432, 58.862

 69, 53.432, 58.862

 29, 53.432, 58.862

 79, 53.432, 58.862

 19, 53.432, 58.862

 89, 53.432, 58.862

 9, 53.432, 58.862

 99, 53.432, 58.862

 0, 53.432, 58.862

 49, 53.432, 58.862

 49, 53.432, 58.862

 47, 60.233, 57.365

 51, 45.930, 60.011

 45, 65.758, 55.365

 54, 38.339, 61.032

44, 66.406, 55.191

57, 30.955, 62.031

60, 23.906, 63.046

63, 17.234, 64.084

66, 10.938, 65.136

69, 4.997, 66.168

72, 0.620, 247.938

75, 5.945, 248.447

# Harmonies

# Complementary

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



49, 53.432, 58.862



47, 38.144, 266.025

# Rectangle

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



49, 53.432, 58.862



49, 53.432, 108.862



49, 53.432, 238.862



49, 53.432, 288.862

# Sweetspot

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



49, 53.431, 58.865



81, 17.465, 64.553



41, 61.443, 348.668



42, 12.222, 64.186



96, 0.011, 296.813



48, 0.006, 296.813



# Same Dimension

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



49, 53.431, 58.865



58, 78.254, 55.701



66, 62.446, 98.769



35, 3.167, 66.127



38, 59.222, 55.680



4, 6.397, 57.607





# Inverse Universe

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



47, 38.144, 266.025



55, 55.134, 274.267



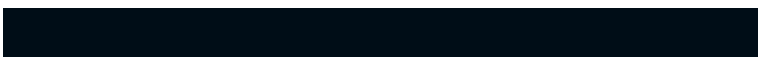
28, 79.238, 301.071



35, 3.067, 248.353



36, 41.465, 275.127



3, 6.963, 257.876



# Previews

## White Background



This preview shows how the CIELCh color 49, 53.432, 58.862 looks on a white 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 × Fail

# Black Background



This preview shows how the CIELCh color 49, 53.432, 58.862 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

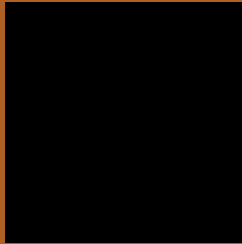
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# CIELCh 49, 53.432, 58.862

## Background



This preview shows how black text looks on a background with the CIELCh color 49, 53.432, 58.862.



This preview shows how white text looks on a background with the CIELCh color 49, 53.432, 58.862.

# 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

49, 53.432, 58.862

### Protanopia

49, 41.602, 95.340

### Deuteranopia

49, 47.145, 82.191



**Tritanopia**  
49, 38.580, 19.934



# Trichromacy



**Original Color**  
49, 53.432, 58.862

**Protanomaly**  
49, 43.076, 79.294

**Deuteranomaly**  
49, 48.262, 73.181

**Tritanomaly**  
49, 41.539, 37.659

# Monochromacy



**Original Color**  
49, 53.432, 58.862

**Achromatopsia**  
48, 0.006, 296.813

**Achromatomaly**  
48, 18.664, 63.674

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 49, 53.432, 58.862 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(175, 96, 37)` looks like.

```
.text, #text, p{  
    color:rgb(175, 96, 37)  
}
```

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(175, 96, 37) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(175, 96, 37) }
```

## Border

The CSS property to change the border of an element to CIELCh 49, 53.432, 58.862 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(175, 96, 37) }
```

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

```
.border{ border-color:rgb(175, 96, 37) }
```

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

Here you see how a box with a 4 pixel rgb(175, 96, 37) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(175, 96, 37); -webkit-box-  
shadow:4px 4px 4px 4px rgb(175, 96, 37);  
box-shadow:4px 4px 4px 4px rgb(175, 96,  
37) }
```

# Background

The CSS property to change the background color of an element to CIELCh 49, 53.432, 58.862 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(175, 96, 37) }
```

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

```
.background{ background-color: rgb(175, 96,  
37) }
```

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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