

# Converting Colors

CIELCh(48, 25.633, 358.953)

Have a look what the booklet for  
CIELCh(48, 25.633, 358.953)  
contains.

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**Color**

**CIELCh(48, 25.866, 357.840)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	9A6174
RGB	154, 97, 116
RGB Percent	60%, 38%, 45%
CMY	0.3945, 0.6182, 0.5437
CMYK	0.00, 0.37, 0.25, 0.39
HSL	340°, 23%, 49%
HSV	340°, 37%, 61%
XYZ	20.8832, 16.7945, 18.7753
YIQ	116.2090, 27.8730, 17.9930

# Conversions

## Conversions Part 2

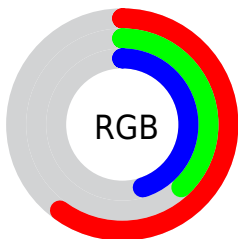
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	154, 97, 116
Decimal	10117492
CIE Lab	48.00, 25.85, -0.97
CIE LCh	48, 25.866, 357.840
Yxy	16.7945, 0.3699, 0.2975
Android (android.graphics.Color)	4288307572 (0xFF9A6174)
YUV	116.2090, -0.1030, 33.1427
Hunter-Lab	40.9810, 19.2434, 1.5233

# Details

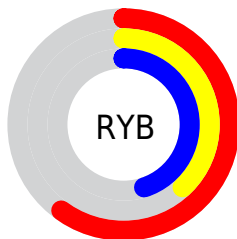
The CIELCh color  $48, 25.866, 357.840$  is a dark color, and the websafe version is hex  $996666$ . A complement of this color would be  $59, 23.527, 170.030$ , and the grayscale version is  $49, 0.007, 296.813$ .

A 20% lighter version of the original color is  $68, 26.273, 357.627$ , and  $28, 25.800, 357.619$  is the 20% darker color. If you saturate the color by 10%, you get  $44, 32.984, 359.472$ , and if you desaturate by 10%, it is  $52, 18.667, 356.477$ .

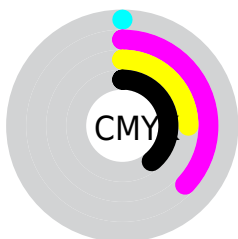
# Distribution



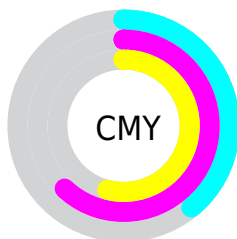
- Red (60%)
- Green (38%)
- Blue (45%)



- Red (60%)
- Yellow (38%)
- Blue (45%)



- Cyan (0%)
- Magenta (37%)
- Yellow (25%)
- Black (39%)




- Cyan (39%)
- Magenta (62%)
- Yellow (54%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 48, 25.866, 357.840 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 48, 25.866, 357.840 by changing the saturation by 10% instead.




 48, 25.866,  
357.840


 48, 25.866,  
357.840


 100, 25.866,  
357.840


 38, 25.866,  
357.840

 68, 25.866,  
357.840


 28, 25.866,  
357.840

 78, 25.866,  
357.840

 18, 25.866,  
357.840

 88, 25.866,  
357.840

 8, 25.866, 357.840

 98, 25.866,  
357.840

 0, 25.866, 357.840

 48, 25.866,

 48, 25.866,

357.840

357.840

44, 32.984,  
359.472

52, 18.667,  
356.477

41, 39.781, 1.463

56, 11.561,  
355.305

38, 45.949, 3.942

61, 4.651, 354.249

35, 51.171, 7.066

65, 2.007, 173.637

34, 55.235, 10.997

70, 8.390, 172.701

32, 58.270, 15.750

74, 14.498,  
171.969

32, 59.221, 17.203

79, 20.340,  
171.315

83, 25.932,  
170.720

88, 31.294,



# Harmonies

# Complementary

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



48, 25.866, 357.840



59, 23.527, 170.030

# Rectangle

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



48, 25.866, 357.840



48, 25.866, 47.840



48, 25.866, 177.840



48, 25.866, 227.840

# Sweetspot

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



48, 25.864, 357.842



75, 9.233, 354.696



47, 36.361, 316.222



39, 6.267, 354.826



91, 0.011, 296.813



43, 0.006, 296.813





# Same Dimension

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



48, 25.864, 357.842



58, 38.402, 359.110



50, 21.938, 36.182



30, 3.777, 354.488



29, 55.102, 16.686



1, 4.003, 354.074



# Inverse Universe

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



48, 25.864, 357.842



58, 38.402, 359.110



57, 16.885, 216.881



30, 3.777, 354.488



29, 55.102, 16.686

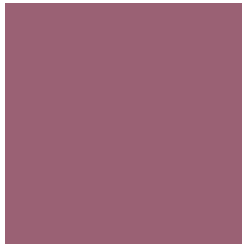


1, 4.003, 354.074



# Previews

## White Background



This preview shows how the CIELCh color 48, 25.866, 357.840 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 CIE LCh color 48, 25.866, 357.840 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

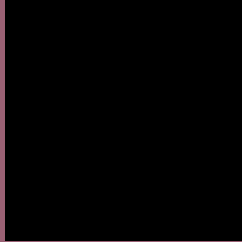
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 48, 25.866, 357.840**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 48, 25.866, 357.840.



This preview shows how white text looks on a background with the CIELCh color 48, 25.866, 357.840.

# 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

48, 25.866, 357.840

### Protanopia

48, 7.075, 287.985

### Deuteranopia

48, 6.031, 3.131





**Tritanopia**  
48, 23.429, 11.210

# Trichromacy



**Original Color**  
48, 25.866, 357.840

**Protanomaly**  
48, 11.549, 335.306

**Deuteranomaly**  
48, 13.477, 358.142

**Tritanomaly**  
48, 24.531, 6.372

# Monochromacy



**Original Color**  
48, 25.866, 357.840

**Achromatopsia**  
49, 0.007, 296.813

**Achromatomaly**  
49, 9.549, 355.169

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 48, 25.866, 357.840 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(154, 97, 116)` looks like.

```
.text, #text, p{  
    color:rgb(154, 97, 116)  
}
```

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(154, 97, 116) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(154, 97, 116) }
```

## Border

The CSS property to change the border of an element to CIELCh 48, 25.866, 357.840 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(154, 97, 116) }
```

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

```
.border{ border-color:rgb(154, 97, 116) }
```

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

Here you see how a box with a 4 pixel `rgb(154, 97, 116)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(154, 97, 116); -webkit-box-  
shadow:4px 4px 4px 4px rgb(154, 97, 116);  
box-shadow:4px 4px 4px 4px rgb(154, 97,  
116) }
```

# Background

The CSS property to change the background color of an element to CIELCh 48, 25.866, 357.840 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(154, 97, 116) }
```

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

```
.background{ background-color: rgb(154, 97,  
116) }
```

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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