

# Converting Colors

CIELCh(48, 18.483, 119.773)

Have a look what the booklet for  
CIELCh(48, 18.483, 119.773)  
contains.

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# Color

**CIELCh(48, 18.459, 119.965)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	6D7657
RGB	109, 118, 87
RGB Percent	43%, 46%, 34%
CMY	0.5738, 0.5385, 0.6600
CMYK	0.08, 0.00, 0.26, 0.54
HSL	77°, 15%, 40%
HSV	77°, 26%, 46%
XYZ	14.4150, 16.7945, 11.4325
YIQ	111.7750, 4.5870, -11.5490

# Conversions

## Conversions Part 2

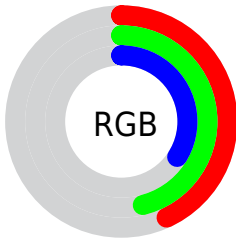
Format	Color
R <sub>Y</sub> B	87, 118, 96
Decimal	7173719
CIE Lab	48.00, -9.22, 15.99
CIE LCh	48, 18.459, 119.965
Yxy	16.7945, 0.3380, 0.3938
Android (android.graphics.Color)	4285363799 (0xFF6D7657)
YUV	111.7750, -12.2141, -2.4337
Hunter-Lab	40.9810, -8.9296, 12.1466

# Details

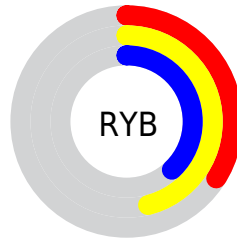
The CIELCh color  $48, 18.459, 119.965$  is a dark color, and the websafe version is hex  $666633$ . A complement of this color would be  $39, 19.405, 303.126$ , and the grayscale version is  $47, 0.006, 296.813$ .

A 20% lighter version of the original color is  $68, 18.375, 119.622$ , and  $28, 18.829, 120.093$  is the 20% darker color. If you saturate the color by 10%, you get  $48, 25.327, 119.406$ , and if you desaturate by 10%, it is  $49, 11.482, 120.538$ .

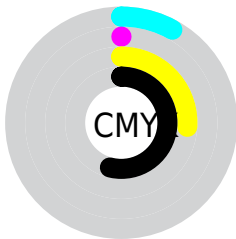
# Distribution



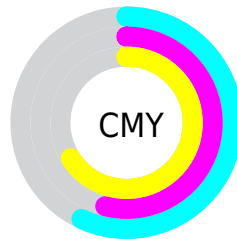
- Red (43%)
- Green (46%)
- Blue (34%)



- Red (34%)
- Yellow (46%)
- Blue (38%)



- Cyan (8%)
- Magenta (0%)
- Yellow (26%)
- Black (54%)




- Cyan (57%)
- Magenta (54%)
- Yellow (66%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 48, 18.459, 119.965 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, 18.459, 119.965 by changing the saturation by 10% instead.





 48, 18.459,  
119.965


 48, 18.459,  
119.965


 100, 18.459,  
119.965


 38, 18.459,  
119.965

 68, 18.459,  
119.965

 28, 18.459,  
119.965

 78, 18.459,  
119.965

 18, 18.459,  
119.965


 88, 18.459,  
119.965

 8, 18.459, 119.965

 98, 18.459,  
119.965

 0, 18.459, 119.965

 48, 18.459,

 48, 18.459,

119.965

119.965

■ 48, 25.327,  
119.406

■ 49, 11.482,  
120.538

■ 47, 31.997,  
118.880

■ 49, 4.453, 121.104

■ 47, 38.345,  
118.427

■ 50, 2.588, 301.627

■ 50, 9.611, 302.151

■ 46, 44.189,  
118.106

■ 51, 16.594,  
302.638

■ 46, 49.283,  
117.993

■ 52, 23.522,  
303.093

■ 46, 53.338,  
118.183

■ 53, 30.382,  
303.515

■ 45, 56.298,  
118.691

■ 53, 37.166,  
303.907

■ 45, 57.366,  
118.859

■ 54, 43.868,



# Harmonies

# Complementary

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



48, 18.459, 119.965



39, 19.405, 303.126

# Rectangle

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



48, 18.459, 119.965



48, 18.459, 169.965



48, 18.459, 299.965



48, 18.459, 349.965

# Sweetspot

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



48, 18.460, 119.968



63, 6.976, 120.998



42, 11.276, 48.148



32, 4.929, 120.928



82, 0.010, 296.813



33, 0.005, 296.813





# Same Dimension

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



48, 18.460, 119.968



61, 27.722, 119.602



47, 20.909, 137.052



24, 3.948, 120.952



47, 59.025, 118.916



91, 100.535, 119.680



# Inverse Universe

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



39, 19.405, 303.126



47, 29.550, 303.626



40, 21.177, 319.409



22, 4.018, 301.955



14, 75.233, 308.527



35, 128.370, 308.042



# Previews

## White Background



This preview shows how the CIELCh color 48, 18.459, 119.965 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 48, 18.459, 119.965 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

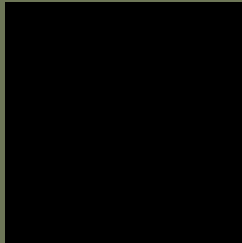
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 48, 18.459, 119.965

## Background



This preview shows how black text looks on a background with the CIELCh color 48, 18.459, 119.965.



This preview shows how white text looks on a background with the CIELCh color 48, 18.459, 119.965.

# 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, 18.459, 119.965


### Protanopia

48, 17.320, 95.979

### Deuteranopia

48, 16.519, 67.859





**Tritanopia**  
48, 5.333, 295.127

# Trichromacy



**Original Color**  
48, 18.459, 119.965

**Protanomaly**  
48, 16.940, 104.877

**Deuteranomaly**  
48, 15.081, 87.557

**Tritanomaly**  
48, 3.743, 128.874

# Monochromacy



**Original Color**  
48, 18.459, 119.965

**Achromatopsia**  
47, 0.006, 296.813

**Achromatomaly**  
47, 6.606, 120.228

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 48, 18.459, 119.965 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(109, 118, 87)` looks like.

```
.text, #text, p{  
    color:rgb(109, 118, 87)  
}
```

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(109, 118, 87) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(109, 118, 87) }
```

## Border

The CSS property to change the border of an element to CIELCh 48, 18.459, 119.965 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(109, 118, 87) }
```

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

```
.border{ border-color:rgb(109, 118, 87) }
```

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

Here you see how a box with a 4 pixel `rgb(109, 118, 87)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(109, 118, 87); -webkit-box-  
shadow:4px 4px 4px 4px rgb(109, 118, 87);  
box-shadow:4px 4px 4px 4px rgb(109, 118,  
87) }
```

# Background

The CSS property to change the background color of an element to CIELCh 48, 18.459, 119.965 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(109, 118, 87) }
```

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

```
.background{ background-color: rgb(109,  
118, 87) }
```

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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