

# Converting Colors

CIELCh(66, 4.568, 17.015)

Have a look what the booklet for  
CIELCh(66, 4.568, 17.015) contains.

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# Color

**CIELCh(66, 4.643, 19.731)**

# Conversions

## Conversions Part 1

Format	Color
Hex	AA9E9E
RGB	170, 158, 158
RGB Percent	67%, 62%, 62%
CMY	0.3345, 0.3815, 0.3815
CMYK	0.00, 0.07, 0.07, 0.33
HSL	0°, 7%, 64%
HSV	0°, 7%, 67%
XYZ	34.8351, 35.3238, 37.1965
YIQ	161.5880, 7.1520, 2.5440

# Conversions

## Conversions Part 2

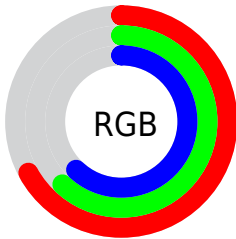
Format	Color
<a href="#">RYB</a>	<a href="#">170, 158, 158</a>
Decimal	<a href="#">11181726</a>
CIELab	<a href="#">66.00, 4.37, 1.57</a>
CIElCh	<a href="#">66, 4.643, 19.731</a>
Yxy	<a href="#">35.3238, 0.3245, 0.3290</a>
Android (android.graphics.Color)	<a href="#">4289371806</a> ( <a href="#">0xFFAA9E9E</a> )
YUV	<a href="#">161.5880, -1.7689, 7.3773</a>
Hunter-Lab	<a href="#">59.4338, 0.6125, 4.4972</a>

# Details

The CIELCh color **66, 4.643, 19.731** is a light color, and the websafe version is hex **999999**. A complement of this color would be **69, 4.444, 199.154**, and the grayscale version is **66, 0.008, 296.813**.

A 20% lighter version of the original color is **86, 4.379, 19.594**, and **46, 4.583, 19.886** is the 20% darker color. If you saturate the color by 10%, you get **61, 11.652, 20.558**, and if you desaturate by 10%, it is **71, 1.850, 199.539**.

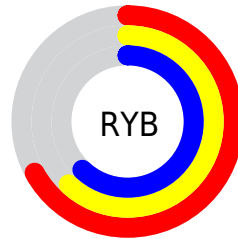
# Distribution



Red (67%)

Green (62%)

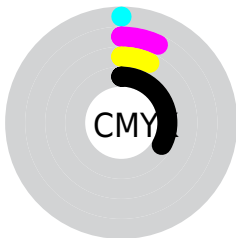
Blue (62%)



Red (67%)

Yellow (62%)

Blue (62%)

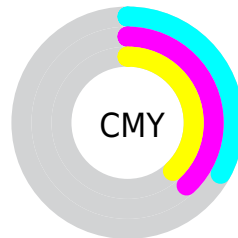


Cyan (0%)

Magenta (7%)

Yellow (7%)

Black (33%)



Cyan (33%)

Magenta (38%)

Yellow (38%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 66, 4.643, 19.731 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, 4.643, 19.731 by changing the saturation by 10% instead.



 66, 4.643, 19.731       66, 4.643, 19.731

 100, 4.643, 19.731       56, 4.643, 19.731

 86, 4.643, 19.731       46, 4.643, 19.731

 96, 4.643, 19.731       36, 4.643, 19.731

 26, 4.643, 19.731

 16, 4.643, 19.731

 6, 4.643, 19.731

 0, 4.643, 19.731

 66, 4.643, 19.731       66, 4.643, 19.731

 61, 11.652, 20.558       71, 1.850, 199.539

56, 19.197, 21.536

76, 7.860, 198.879

52, 27.252, 22.793

81, 13.434,  
198.487

48, 35.738, 24.429

86, 18.621,  
198.182

44, 44.496, 26.549

41, 53.285, 29.243

91, 23.466,  
197.937

38, 61.774, 32.501

95, 26.835,  
197.763

36, 69.423, 36.024

35, 75.300, 39.050

# Harmonies

# Complementary

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



66, 4.643, 19.731



69, 4.444, 199.154

# Rectangle

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



66, 4.643, 19.731



66, 4.643, 69.731



66, 4.643, 199.731



66, 4.643, 249.731

# Sweetspot

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



66, 4.642, 19.751



87, 1.603, 19.174



66, 8.075, 324.794



47, 0.918, 19.146



95, 0.011, 296.813



47, 0.006, 296.813



# Same Dimension

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



66, 4.642, 19.751



83, 6.560, 19.837



68, 4.015, 74.495



33, 3.723, 19.926



30, 69.023, 39.363



1, 6.571, 19.422





# Inverse Universe

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



69, 4.444, 199.154



87, 6.238, 199.083



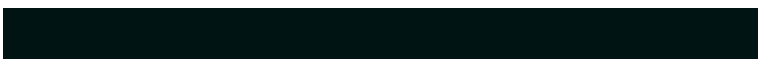
67, 3.957, 256.386



35, 3.515, 199.012



55, 33.376, 196.423



5, 6.569, 199.451



# Previews

## White Background



This preview shows how the CIELCh color 66, 4.643, 19.731 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, 4.643, 19.731 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

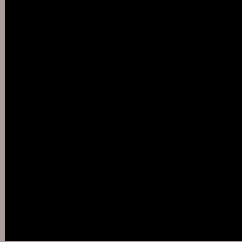
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**CIELCh 66, 4.643, 19.731**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 66, 4.643, 19.731.



This preview shows how white text looks on a background with the CIELCh color 66, 4.643, 19.731.

# 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, 4.643, 19.731

### Protanopia

66, 1.623, 39.127

### Deuteranopia

66, 8.729, 9.278



**Tritanopia**  
66, 8.784, 331.033



# Trichromacy



**Original Color**  
66, 4.643, 19.731

**Protanomaly**  
66, 2.691, 19.477

**Deuteranomaly**  
66, 7.082, 11.057

**Tritanomaly**  
66, 6.630, 344.266

# Monochromacy



**Original Color**  
66, 4.643, 19.731

**Achromatopsia**  
66, 0.008, 296.813

**Achromatomaly**  
66, 1.531, 19.239

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 66, 4.643, 19.731 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(170, 158, 158)` looks like.

```
.text, #text, p{  
    color:rgb(170, 158, 158)  
}
```

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(170, 158, 158) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(170, 158, 158) }
```

## Border

The CSS property to change the border of an element to CIELCh 66, 4.643, 19.731 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(170, 158, 158) }
```

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

```
.border{ border-color:rgb(170, 158, 158) }
```

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

Here you see how a box with a 4 pixel rgb(170, 158, 158) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(170, 158, 158); -webkit-box-  
shadow:4px 4px 4px 4px rgb(170, 158, 158);  
box-shadow:4px 4px 4px 4px rgb(170, 158,  
158) }
```

# Background

The CSS property to change the background color of an element to CIELCh 66, 4.643, 19.731 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(170, 158, 158) }
```

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

```
.background{ background-color: rgb(170,  
158, 158) }
```

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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