

# Converting Colors

CIELCh(66, 19.488, 108.092)

Have a look what the booklet for  
CIELCh(66, 19.488, 108.092)  
contains.

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# **Color**

**CIELCh(66, 19.739, 108.082)**

# Conversions

## Conversions Part 1

Format	Color
Hex	A3A37F
RGB	163, 163, 127
RGB Percent	64%, 64%, 50%
CMY	0.3623, 0.3623, 0.5034
CMYK	0.00, 0.00, 0.22, 0.36
HSL	60°, 16%, 57%
HSV	60°, 22%, 64%
XYZ	31.8584, 35.3238, 25.0901
YIQ	158.8960, 11.5560, -11.1960

# Conversions

## Conversions Part 2

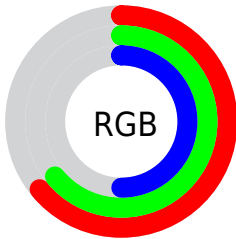
Format	Color
<a href="#">RYB</a>	<a href="#">127, 163, 127</a>
Decimal	<a href="#">10724223</a>
CIELab	<a href="#">66.00, -6.13, 18.76</a>
CIElCh	<a href="#">66, 19.739, 108.082</a>
Yxy	<a href="#">35.3238, 0.3453, 0.3828</a>
Android (android.graphics.Color)	<a href="#">4288914303</a> ( <a href="#">0xFFA3A37F</a> )
YUV	<a href="#">158.8960, -15.7247, 3.5992</a>
Hunter-Lab	<a href="#">59.4338, -8.3276, 16.5743</a>

# Details

The CIELCh color  $66, 19.739, 108.082$  is a light color, and the websafe version is hex  $999966$ . A complement of this color would be  $54, 20.764, 292.672$ , and the grayscale version is  $65, 0.008, 296.813$ .

A 20% lighter version of the original color is  $86, 19.772, 108.491$ , and  $46, 19.328, 107.459$  is the 20% darker color. If you saturate the color by 10%, you get  $66, 28.490, 107.142$ , and if you desaturate by 10%, it is  $66, 10.856, 109.037$ .

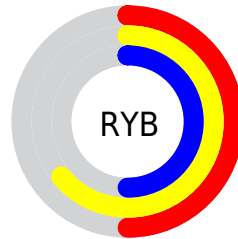
# Distribution



Red (64%)

Green (64%)

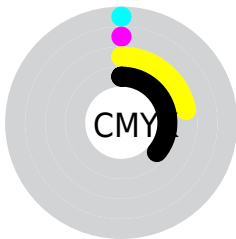
Blue (50%)



Red (50%)

Yellow (64%)

Blue (50%)

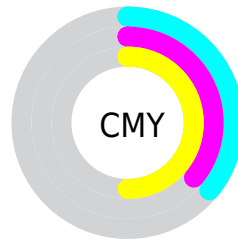


Cyan (0%)

Magenta (0%)

Yellow (22%)

Black (36%)



Cyan (36%)

Magenta (36%)


Yellow (50%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 66, 19.739, 108.082 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, 19.739, 108.082 by changing the saturation by 10% instead.





 66, 19.739,  
108.082


 66, 19.739,  
108.082


 100, 19.739,  
108.082


 56, 19.739,  
108.082


 86, 19.739,  
108.082

 46, 19.739,  
108.082

 96, 19.739,  
108.082

 36, 19.739,  
108.082

 26, 19.739,  
108.082

 16, 19.739,  
108.082

 6, 19.739, 108.082

 0, 19.739, 108.082

66, 19.739,  
108.082

66, 19.739,  
108.082

66, 28.490,  
107.142

66, 10.856,  
109.037

65, 36.999,  
106.223

67, 1.903, 109.957

67, 7.073, 290.920

65, 45.106,  
105.353

68, 16.042,  
291.815

65, 52.572,  
104.563

68, 24.984,  
292.679

65, 59.059,  
103.888

69, 33.883,  
293.506

65, 64.162,  
103.368

70, 42.727,  
294.292

65, 67.517,  
103.032

70, 50.583,  
294.960

65, 69.216,

102.863

■ 70, 50.583,  
294.961

# Harmonies

# Complementary

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



66, 19.739, 108.082



54, 20.764, 292.672

# Rectangle

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



66, 19.739, 108.082



66, 19.739, 158.082



66, 19.739, 288.082



66, 19.739, 338.082

# Sweetspot

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



66, 19.740, 108.086



84, 7.768, 109.507



56, 14.877, 20.998



45, 5.088, 109.455



93, 0.011, 296.813



45, 0.006, 296.813





# Same Dimension

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



66, 19.740, 108.086



84, 29.763, 107.577



65, 21.136, 128.078



34, 5.079, 109.307



58, 63.749, 102.863



5, 7.945, 110.186



# Inverse Universe

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



54, 20.764, 292.672



66, 31.746, 293.422



56, 21.774, 310.090



31, 5.189, 291.125



16, 88.025, 306.288



0, 7.947, 290.184



# Previews

## White Background



This preview shows how the CIELCh color 66, 19.739, 108.082 looks on a white background.

## Color Contrast Check

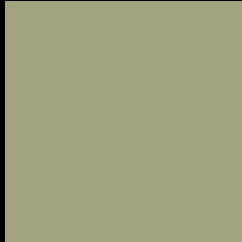
Large Text (above 18pt) WCAG AA × Fail

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, 19.739, 108.082 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

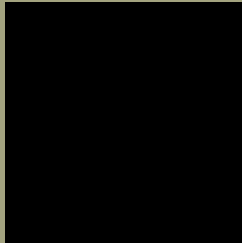
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

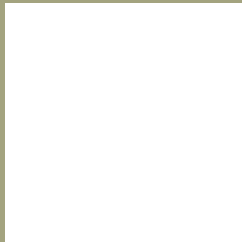
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 66, 19.739, 108.082**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 66, 19.739, 108.082.



This preview shows how white text looks on a background with the CIELCh color 66, 19.739, 108.082.

# 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, 19.739, 108.082


### Protanopia

66, 19.795, 94.762

### Deuteranopia

66, 20.110, 65.215





**Tritanopia**  
66, 7.878, 322.499

# Trichromacy



**Original Color**  
66, 19.739, 108.082

**Protanomaly**  
66, 19.448, 99.563

**Deuteranomaly**  
66, 18.301, 79.937

**Tritanomaly**  
66, 3.862, 65.049

# Monochromacy



**Original Color**  
66, 19.739, 108.082

**Achromatopsia**  
65, 0.008, 296.813

**Achromatomaly**  
66, 7.180, 109.407

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 66, 19.739, 108.082 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(163, 163, 127)` looks like.

```
.text, #text, p{  
    color:rgb(163, 163, 127)  
}
```

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(163, 163, 127) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(163, 163, 127) }
```

## Border

The CSS property to change the border of an element to CIELCh 66, 19.739, 108.082 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(163, 163, 127) }
```

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

```
.border{ border-color:rgb(163, 163, 127) }
```

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

Here you see how a box with a 4 pixel `rgb(163, 163, 127)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(163, 163, 127); -webkit-box-  
shadow:4px 4px 4px 4px rgb(163, 163, 127);  
box-shadow:4px 4px 4px 4px rgb(163, 163,  
127) }
```

# Background

The CSS property to change the background color of an element to CIELCh 66, 19.739, 108.082 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(163, 163, 127) }
```

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

```
.background{ background-color: rgb(163,  
163, 127) }
```

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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