

# Converting Colors

CIELCh(49, 4.694, 137.585)

Have a look what the booklet for  
CIELCh(49, 4.694, 137.585) contains.

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# Color

**CIELCh(49, 4.595, 135.973)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	71766F
RGB	113, 118, 111
RGB Percent	44%, 46%, 44%
CMY	0.5571, 0.5375, 0.5650
CMYK	0.04, 0.00, 0.06, 0.54
HSL	103°, 3%, 45%
HSV	103°, 6%, 46%
XYZ	16.1380, 17.5941, 17.5655
YIQ	115.7070, -0.7330, -3.2370

# Conversions

## Conversions Part 2

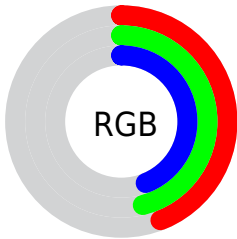
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	111, 118, 116
Decimal	7435887
CIE <sub>Lab</sub>	49.00, -3.30, 3.19
CIE <sub>LCh</sub>	49, 4.595, 135.973
Yxy	17.5941, 0.3146, 0.3430
Android (android.graphics.Color)	4285625967 (0xFF71766F)
YUV	115.7070, -2.3206, -2.3740
Hunter-Lab	41.9453, -4.7283, 4.5327

# Details

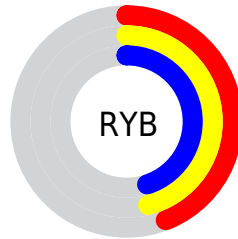
The CIELCh color **49, 4.595, 135.973** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **47, 4.625, 316.396**, and the grayscale version is **49, 0.007, 296.813**.

A 20% lighter version of the original color is **69, 4.293, 136.053**, and **29, 5.039, 135.819** is the 20% darker color. If you saturate the color by 10%, you get **48, 12.396, 135.518**, and if you desaturate by 10%, it is **50, 3.138, 316.302**.

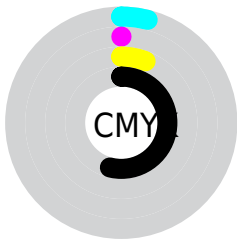
# Distribution



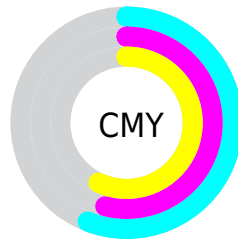
- Red (44%)
- Green (46%)
- Blue (44%)



- Red (44%)
- Yellow (46%)
- Blue (45%)



- Cyan (4%)
- Magenta (0%)
- Yellow (6%)
- Black (54%)



- Cyan (56%)
- Magenta (54%)
- Yellow (57%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 49, 4.595, 135.973 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, 4.595, 135.973 by changing the saturation by 10% instead.



■ 49, 4.595, 135.973

■ 49, 4.595, 135.973

■ 100, 4.595,  
135.973

■ 39, 4.595, 135.973

■ 69, 4.595, 135.973

■ 29, 4.595, 135.973

■ 79, 4.595, 135.973

■ 19, 4.595, 135.973

■ 89, 4.595, 135.973

■ 9, 4.595, 135.973

■ 99, 4.595, 135.973

■ 0, 4.595, 135.973

■ 49, 4.595, 135.973

■ 49, 4.595, 135.973

■ 48, 12.396,  
135.518

■ 50, 3.138, 316.302

■ 47, 20.202,

■ 51, 10.767,  
316.676

135.027

52, 18.261,  
316.984

46, 27.936,  
134.499

54, 25.603,  
317.249

46, 35.489,  
133.953

55, 32.780,  
317.478

45, 42.713,  
133.421

56, 39.787,  
317.675

44, 49.406,  
132.961

58, 46.621,  
317.844

44, 55.308,  
132.659

59, 53.285,  
317.989

44, 60.113,  
132.627

61, 59.782,  
318.113

43, 63.697,  
132.879

# Harmonies

# Complementary

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



49, 4.595, 135.973



47, 4.625, 316.396

# Rectangle

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



49, 4.595, 135.973



49, 4.595, 185.973



49, 4.595, 315.973



49, 4.595, 5.973

# Sweetspot

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



49, 4.596, 135.976



63, 1.907, 136.187



49, 2.987, 92.966



32, 1.078, 136.200



82, 0.010, 296.813



33, 0.005, 296.813



# Same Dimension

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



49, 4.596, 135.976



62, 6.713, 135.920



49, 4.363, 150.219



24, 3.473, 135.917



45, 66.864, 132.957



87, 114.311, 133.633





# Inverse Universe

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



47, 4.625, 316.396



60, 6.757, 316.451



48, 4.378, 330.830



23, 3.496, 316.453



22, 69.253, 318.143

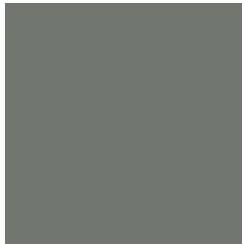


48, 117.733, 317.652



# Previews

## White Background



This preview shows how the CIE LCh color 49, 4.595, 135.973 looks on a white background.

## Color Contrast Check

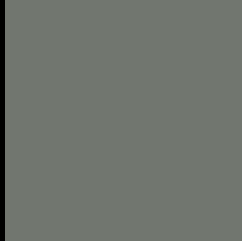
Large Text (above 18pt) WCAG AA ✓ Pass

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, 4.595, 135.973 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

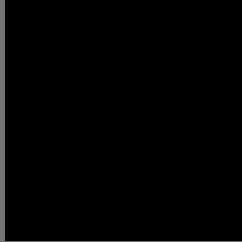
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

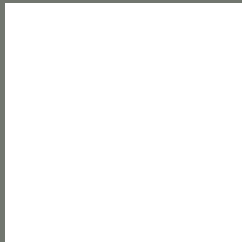
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 49, 4.595, 135.973**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 49, 4.595, 135.973.

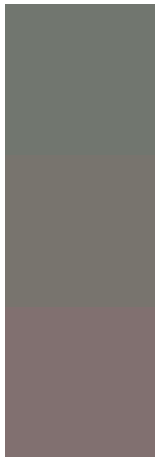


This preview shows how white text looks on a background with the CIELCh color 49, 4.595, 135.973.

# 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, 4.595, 135.973

### Protanopia

49, 3.869, 84.366

### Deuteranopia

49, 7.076, 20.189



**Tritanopia**  
49, 5.297, 286.655



# Trichromacy



## Original Color

49, 4.595, 135.973

## Protanomaly

49, 4.091, 109.623

## Deuteranomaly

49, 3.892, 37.202

## Tritanomaly

49, 2.112, 256.133

# Monochromacy



## Original Color

49, 4.595, 135.973

## Achromatopsia

49, 0.007, 296.813

## Achromatomaly

49, 1.940, 134.629

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 49, 4.595, 135.973 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(113, 118, 111)` looks like.

```
.text, #text, p{  
    color:rgb(113, 118, 111)  
}
```

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(113, 118, 111) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(113, 118, 111) }
```

## Border

The CSS property to change the border of an element to CIELCh 49, 4.595, 135.973 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(113, 118, 111) }
```

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

```
.border{ border-color:rgb(113, 118, 111) }
```

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

Here you see how a box with a 4 pixel `rgb(113, 118, 111)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(113, 118, 111); -webkit-box-  
shadow:4px 4px 4px 4px rgb(113, 118, 111);  
box-shadow:4px 4px 4px 4px rgb(113, 118,  
111) }
```

# Background

The CSS property to change the background color of an element to CIELCh 49, 4.595, 135.973 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(113, 118, 111) }
```

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

```
.background{ background-color: rgb(113,  
118, 111) }
```

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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