

# Converting Colors

CIELCh(43, 2.030, 37.978)

Have a look what the booklet for  
CIELCh(43, 2.030, 37.978) contains.

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# Color

**CIELCh(43, 1.770, 39.194)**

# Conversions

## Conversions Part 1

Format	Color
Hex	696564
RGB	105, 101, 100
RGB Percent	41%, 40%, 39%
CMY	0.5893, 0.6050, 0.6089
CMYK	0.00, 0.04, 0.05, 0.59
HSL	12°, 2%, 40%
HSV	12°, 5%, 41%
XYZ	12.7095, 13.1578, 13.8591
YIQ	102.0820, 2.7050, 0.5370

# Conversions

## Conversions Part 2

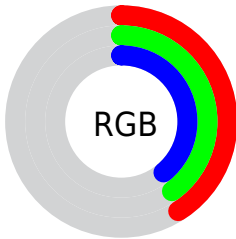
Format	Color
R <sub>Y</sub> B	105, 101, 100
Decimal	6907236
CIE Lab	43.00, 1.37, 1.12
CIE LCh	43, 1.770, 39.194
Yxy	13.1578, 0.3199, 0.3312
Android (android.graphics.Color)	4285097316 (0xFF696564)
YUV	102.0820, -1.0264, 2.5591
Hunter-Lab	36.2736, -0.9362, 2.7385

# Details

The CIELCh color  $43, 1.770, 39.194$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $44, 1.724, 219.830$ , and the grayscale version is  $43, 0.006, 296.813$ .

A 20% lighter version of the original color is  $63, 1.639, 39.137$ , and  $23, 1.981, 39.219$  is the 20% darker color. If you saturate the color by 10%, you get  $40, 5.694, 39.228$ , and if you desaturate by 10%, it is  $46, 1.871, 219.828$ .

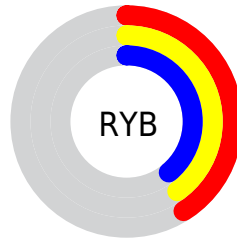
# Distribution



Red (41%)

Green (40%)

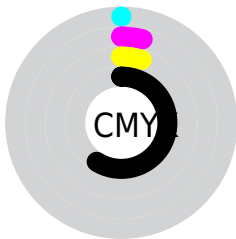
Blue (39%)



Red (41%)

Yellow (40%)

Blue (39%)

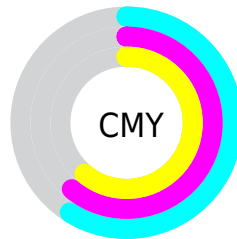


Cyan (0%)

Magenta (4%)

Yellow (5%)

Black (59%)



Cyan (59%)

Magenta (61%)

Yellow (61%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 43, 1.770, 39.194 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 43, 1.770, 39.194 by changing the saturation by 10% instead.



 43, 1.770, 39.194	 43, 1.770, 39.194
 100, 1.770, 39.194	 33, 1.770, 39.194
 63, 1.770, 39.194	 23, 1.770, 39.194
 73, 1.770, 39.194	 13, 1.770, 39.194
 83, 1.770, 39.194	 3, 1.770, 39.194
 93, 1.770, 39.194	 0, 1.770, 39.194

 43, 1.770, 39.194	 43, 1.770, 39.194
 40, 5.694, 39.228	 46, 1.871, 219.828
 38, 9.930, 39.208	 49, 5.257, 219.983
 35, 14.497, 39.299	 51, 8.414, 220.270

■ 33, 19.408, 39.542

■ 54, 11.370,  
220.598

■ 30, 24.656, 39.970

■ 57, 14.148,  
220.949

■ 28, 30.202, 40.604

■ 26, 35.950, 41.434

■ 60, 16.769,  
221.313

■ 24, 41.691, 42.359

■ 62, 19.251,  
221.683

■ 23, 46.420, 42.374

■ 65, 21.612,  
222.055

■ 68, 23.866,  
222.425

# Harmonies

# Complementary

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



43, 1.770, 39.194



44, 1.724, 219.830

# Rectangle

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



43, 1.770, 39.194



43, 1.770, 89.194



43, 1.770, 219.194



43, 1.770, 269.194

# Sweetspot

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



43, 1.770, 39.238



56, 0.450, 38.599



43, 3.189, 330.744



29, 0.257, 38.518



79, 0.010, 296.813



29, 0.005, 296.813



# Same Dimension

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



43, 1.770, 39.238



54, 2.758, 39.258



44, 2.174, 93.095



21, 1.495, 39.258



25, 53.808, 43.099



54, 96.755, 43.095





# Inverse Universe

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



44, 1.724, 219.830



55, 2.664, 219.825



43, 2.186, 274.313



22, 1.443, 219.825



36, 24.674, 233.944



74, 42.685, 236.419



# Previews

## White Background



This preview shows how the CIELCh color 43, 1.770, 39.194 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 43, 1.770, 39.194 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

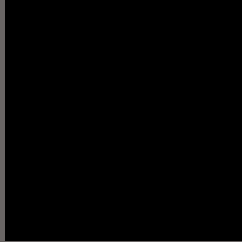
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 43, 1.770, 39.194**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 43, 1.770, 39.194.



This preview shows how white text looks on a background with the CIELCh color 43, 1.770, 39.194.

# 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

43, 1.770, 39.194

### Protanopia

43, 1.381, 45.022

### Deuteranopia

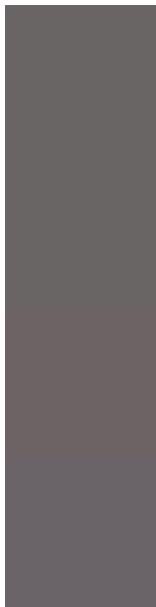
43, 6.038, 8.724



**Tritanopia**  
43, 4.901, 320.748



# Trichromacy



## Original Color

43, 1.770, 39.194

## Protanomaly

43, 1.381, 45.022

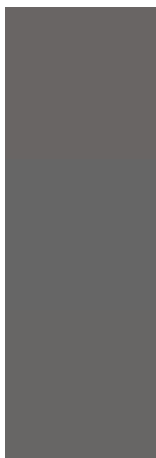
## Deuteranomaly

43, 4.253, 11.789

## Tritanomaly

43, 3.474, 335.974

# Monochromacy



## Original Color

43, 1.770, 39.194

## Achromatopsia

43, 0.006, 296.813

## Achromatomaly

43, 0.721, 74.886

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 43, 1.770, 39.194 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(105, 101, 100)` looks like.

```
.text, #text, p{  
    color:rgb(105, 101, 100)  
}
```

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(105, 101, 100) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(105, 101, 100) }
```

## Border

The CSS property to change the border of an element to CIELCh 43, 1.770, 39.194 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(105, 101, 100) }
```

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

```
.border{ border-color:rgb(105, 101, 100) }
```

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

Here you see how a box with a 4 pixel `rgb(105, 101, 100)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(105, 101, 100); -webkit-box-  
shadow:4px 4px 4px 4px rgb(105, 101, 100);  
box-shadow:4px 4px 4px 4px rgb(105, 101,  
100) }
```

# Background

The CSS property to change the background color of an element to CIELCh 43, 1.770, 39.194 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(105, 101, 100) }
```

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

```
.background{ background-color: rgb(105,  
101, 100) }
```

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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