

# Converting Colors

CIE LCh(50, 4.033, 47.201)

Have a look what the booklet for  
CIELCh(50, 4.033, 47.201) contains.

<b>CIELCh(50, 4.094, 44.938)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	11
<i><b>Previews</b></i> .....	20
<i><b>Color Blindness Simulation</b></i> .....	23
<i><b>CSS Examples</b></i> .....	26

# Color

**CIELCh(50, 4.094, 44.938)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	7E7572
RGB	126, 117, 114
RGB Percent	49%, 46%, 45%
CMY	0.5053, 0.5406, 0.5524
CMYK	0.00, 0.07, 0.10, 0.51
HSL	15°, 5%, 47%
HSV	15°, 10%, 49%
XYZ	18.0469, 18.4187, 18.5644
YIQ	119.3490, 6.3270, 0.9750

# Conversions

## Conversions Part 2

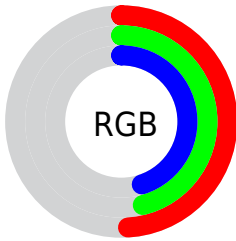
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	126, 118, 114
Decimal	8287602
CIE Lab	50.00, 2.90, 2.89
CIE LCh	50, 4.094, 44.938
Yxy	18.4187, 0.3279, 0.3347
Android (android.graphics.Color)	4286477682 (0xFF7E7572)
YUV	119.3490, -2.6371, 5.8329
Hunter-Lab	42.9170, -0.0443, 4.3951

# Details

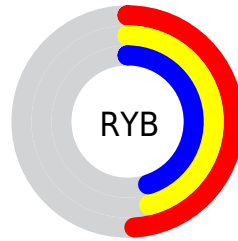
The CIELCh color  $50, 4.094, 44.938$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $51, 3.881, 226.012$ , and the grayscale version is  $50, 0.007, 296.813$ .

A 20% lighter version of the original color is  $70, 4.160, 42.740$ , and  $30, 4.121, 47.461$  is the 20% darker color. If you saturate the color by 10%, you get  $47, 8.725, 44.667$ , and if you desaturate by 10%, it is  $53, 0.204, 227.308$ .

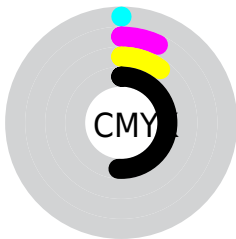
# Distribution



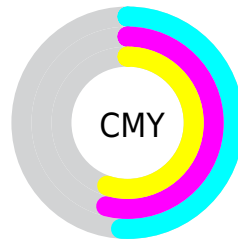
- Red (49%)
- Green (46%)
- Blue (45%)



- Red (49%)
- Yellow (46%)
- Blue (45%)



- Cyan (0%)
- Magenta (7%)
- Yellow (10%)
- Black (51%)



- Cyan (51%)
- Magenta (54%)
- Yellow (55%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 50, 4.094, 44.938 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 50, 4.094, 44.938 by changing the saturation by 10% instead.



 50, 4.094, 44.938	 50, 4.094, 44.938
 100, 4.094, 44.938	 40, 4.094, 44.938
 70, 4.094, 44.938	 30, 4.094, 44.938
 80, 4.094, 44.938	 20, 4.094, 44.938
 90, 4.094, 44.938	 10, 4.094, 44.938
	 0, 4.094, 44.938

 50, 4.094, 44.938	 50, 4.094, 44.938
 47, 8.725, 44.667	 53, 0.204, 227.308
 44, 13.722, 44.432	 56, 4.200, 226.015
 41, 19.107, 44.305	 59, 7.928, 226.469

39, 24.888, 44.316

62, 11.420,  
226.972

36, 31.047, 44.485

65, 14.702,  
227.494

34, 37.510, 44.806

32, 44.099, 45.212

68, 17.801,  
228.024

30, 50.413, 45.493

71, 20.739,  
228.553

28, 55.918, 45.519

74, 23.536,  
229.078

78, 26.207,  
229.594

# Harmonies

# Complementary

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



50, 4.094, 44.938



51, 3.881, 226.012

# Rectangle

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



50, 4.094, 44.938



50, 4.094, 94.938



50, 4.094, 224.938



50, 4.094, 274.938

# Sweetspot

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



50, 4.094, 44.961



66, 1.554, 45.020



49, 7.172, 332.900



34, 1.176, 45.046



84, 0.010, 296.813



35, 0.005, 296.813



# Same Dimension

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



50, 4.094, 44.961



63, 5.882, 44.911



52, 5.347, 96.134



25, 2.443, 44.972



28, 56.689, 45.556



0, 0.000, 0.000





# Inverse Universe

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



51, 3.881, 226.012



64, 5.517, 226.100



49, 5.387, 278.384



26, 2.321, 225.993



38, 27.150, 244.685



0, 0.000, 0.000



# Previews

## White Background



This preview shows how the CIELCh color 50, 4.094, 44.938 looks on a white background.

## Color Contrast Check

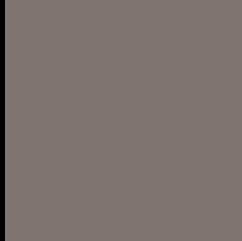
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIE LCh color 50, 4.094, 44.938 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

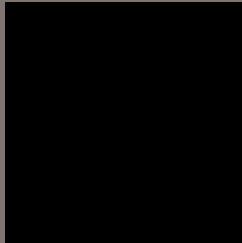
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

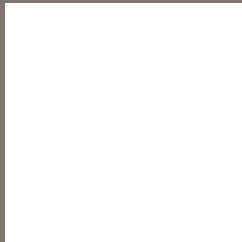
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 50, 4.094, 44.938**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 50, 4.094, 44.938.



This preview shows how white text looks on a background with the CIELCh color 50, 4.094, 44.938.

# 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

50, 4.094, 44.938

### Protanopia

50, 2.382, 66.593

### Deuteranopia

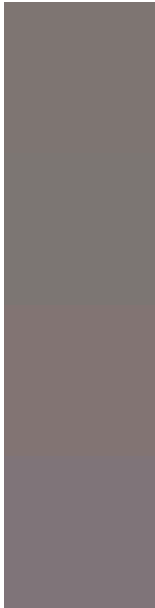
50, 7.039, 20.168



**Tritanopia**  
50, 7.151, 332.891



# Trichromacy



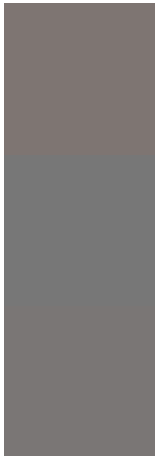
**Original Color**  
50, 4.094, 44.938

**Protanomaly**  
50, 3.006, 55.035

**Deuteranomaly**  
50, 5.812, 25.731

**Tritanomaly**  
50, 5.339, 346.838

# Monochromacy



**Original Color**  
50, 4.094, 44.938

**Achromatopsia**  
50, 0.007, 296.813

**Achromatomaly**  
50, 1.719, 39.178

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 50, 4.094, 44.938 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(126, 117, 114)` looks like.

```
.text, #text, p{  
    color:rgb(126, 117, 114)  
}
```

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(126, 117, 114) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(126, 117, 114) }
```

## Border

The CSS property to change the border of an element to CIELCh 50, 4.094, 44.938 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(126, 117, 114) }
```

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

```
.border{ border-color:rgb(126, 117, 114) }
```

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

Here you see how a box with a 4 pixel `rgb(126, 117, 114)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(126, 117, 114); -webkit-box-  
shadow:4px 4px 4px 4px rgb(126, 117, 114);  
box-shadow:4px 4px 4px 4px rgb(126, 117,  
114) }
```

# Background

The CSS property to change the background color of an element to CIELCh 50, 4.094, 44.938 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(126, 117, 114) }
```

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

```
.background{ background-color: rgb(126,  
117, 114) }
```

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](#).

Hey! You found this booklet interesting? Support Converting Colors with the new Membership Option!

The pro membership hides all ads, plus gives you double the colors in the color bucket, and more awesome pro features!

**[Learn more, Memberships starting at \\$2.50/m!](#)**

**Follow me  
on Twitter!**

@ConvertingColor