

# Converting Colors

CIELCh(50, 4.271, 65.075)

Have a look what the booklet for  
CIELCh(50, 4.271, 65.075) contains.

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# Color

**CIELCh(50, 4.532, 69.924)**

# Conversions

## Conversions Part 1

Format	Color
Hex	7D7670
RGB	125, 118, 112
RGB Percent	49%, 46%, 44%
CMY	0.5106, 0.5380, 0.5616
CMYK	0.00, 0.06, 0.10, 0.51
HSL	28°, 5%, 46%
HSV	28°, 10%, 49%
XYZ	17.7951, 18.4187, 17.8874
YIQ	119.4090, 6.0980, -0.3820

# Conversions

## Conversions Part 2

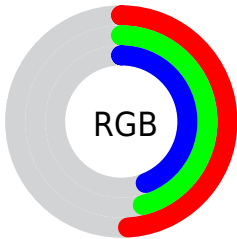
Format	Color
<a href="#">RYB</a>	<a href="#">125, 123, 112</a>
Decimal	<a href="#">8222320</a>
CIELab	<a href="#">50.00, 1.56, 4.26</a>
CIElCh	<a href="#">50, 4.532, 69.924</a>
Yxy	<a href="#">18.4187, 0.3289, 0.3404</a>
Android (android.graphics.Color)	<a href="#">4286412400</a> ( <a href="#">0xFF7D7670</a> )
YUV	<a href="#">119.4090, -3.6526, 4.9033</a>
Hunter-Lab	<a href="#">42.9170, -1.0912, 5.3304</a>

# Details

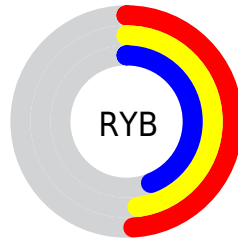
The CIELCh color  $50, 4.532, 69.924$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $50, 4.400, 252.478$ , and the grayscale version is  $50, 0.007, 296.813$ .

A 20% lighter version of the original color is  $70, 4.478, 66.380$ , and  $30, 4.713, 73.645$  is the 20% darker color. If you saturate the color by 10%, you get  $48, 9.115, 68.853$ , and if you desaturate by 10%, it is  $52, 0.171, 69.477$ .

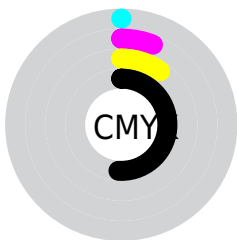
# Distribution



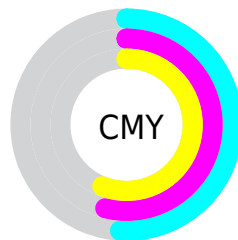
- Red (49%)
- Green (46%)
- Blue (44%)



- Red (49%)
- Yellow (48%)
- Blue (44%)



- Cyan (0%)
- Magenta (6%)
- Yellow (10%)
- Black (51%)



- Cyan (51%)
- Magenta (54%)
- Yellow (56%)









# Brightness & Saturation Gradients

These gradients show how the CIELCh color 50, 4.532, 69.924 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, 4.532, 69.924 by changing the saturation by 10% instead.



 50, 4.532, 69.924	 50, 4.532, 69.924
 100, 4.532, 69.924	 40, 4.532, 69.924
 70, 4.532, 69.924	 30, 4.532, 69.924
 80, 4.532, 69.924	 20, 4.532, 69.924
 90, 4.532, 69.924	 10, 4.532, 69.924
	 0, 4.532, 69.924

 50, 4.532, 69.924	 50, 4.532, 69.924
 48, 9.115, 68.853	 52, 0.171, 69.477
 46, 13.938, 67.739	 54, 3.989, 252.284
 44, 19.011, 66.623	 57, 7.968, 253.318

41, 24.329, 65.512

59, 11.788,  
254.346

39, 29.856, 64.396

61, 15.466,  
255.345

38, 35.491, 63.240

36, 41.019, 61.953

64, 19.019,  
256.310

34, 46.020, 60.343

66, 22.461,  
257.237

33, 50.633, 58.911

68, 25.805,  
258.126

71, 29.062,  
258.977

# Harmonies

# Complementary

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



50, 4.532, 69.924



50, 4.400, 252.478

# Rectangle

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



50, 4.532, 69.924



50, 4.532, 119.924



50, 4.532, 249.924



50, 4.532, 299.924

# Sweetspot

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



50, 4.532, 69.945



66, 1.593, 70.610



49, 6.759, 341.808



34, 1.205, 70.571



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, 4.532, 69.945



64, 6.536, 69.744



52, 7.142, 107.100



25, 2.404, 70.088



33, 50.681, 58.907



64, 86.483, 56.764





# Inverse Universe

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



50, 4.400, 252.478



63, 6.304, 252.719



48, 7.293, 289.181



24, 2.345, 252.311



28, 38.204, 278.313

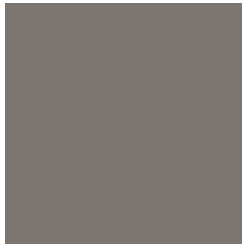


57, 67.543, 281.032



# Previews

## White Background



This preview shows how the CIELCh color 50, 4.532, 69.924 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, 4.532, 69.924 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

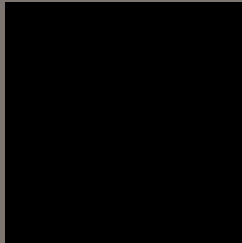
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

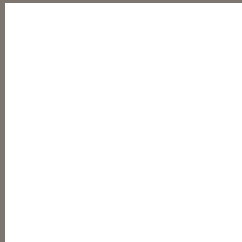
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 50, 4.532, 69.924**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 50, 4.532, 69.924.



This preview shows how white text looks on a background with the CIELCh color 50, 4.532, 69.924.

# 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

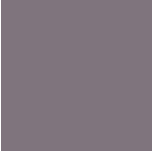
50, 4.532, 69.924

### Protanopia

50, 4.051, 79.048

### Deuteranopia

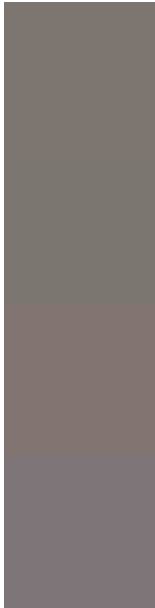
50, 7.736, 33.190



**Tritanopia**  
50, 6.888, 330.377



# Trichromacy



**Original Color**  
50, 4.532, 69.924

**Protanomaly**  
50, 4.277, 74.233

**Deuteranomaly**  
50, 6.286, 41.654

**Tritanomaly**  
50, 4.057, 354.246

# Monochromacy



**Original Color**  
50, 4.532, 69.924

**Achromatopsia**  
50, 0.007, 296.813

**Achromatomaly**  
50, 1.917, 84.821

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 50, 4.532, 69.924 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(125, 118, 112)` looks like.

```
.text, #text, p{  
    color:rgb(125, 118, 112)  
}
```

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(125, 118, 112) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(125, 118, 112) }
```

## Border

The CSS property to change the border of an element to CIELCh 50, 4.532, 69.924 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(125, 118, 112) }
```

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

```
.border{ border-color:rgb(125, 118, 112) }
```

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

Here you see how a box with a 4 pixel `rgb(125, 118, 112)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(125, 118, 112); -webkit-box-  
shadow:4px 4px 4px 4px rgb(125, 118, 112);  
box-shadow:4px 4px 4px 4px rgb(125, 118,  
112) }
```

# Background

The CSS property to change the background color of an element to CIELCh 50, 4.532, 69.924 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(125, 118, 112) }
```

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

```
.background{ background-color: rgb(125,  
118, 112) }
```

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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