

# Converting Colors

CIELCh(50, 2.190, 66.446)

Have a look what the booklet for  
CIELCh(50, 2.190, 66.446) contains.

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# Color

**CIELCh(50, 1.993, 55.156)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	7A7674
RGB	122, 118, 116
RGB Percent	48%, 46%, 45%
CMY	0.5208, 0.5365, 0.5443
CMYK	0.00, 0.03, 0.05, 0.52
HSL	20°, 3%, 47%
HSV	20°, 5%, 48%
XYZ	17.7174, 18.4187, 19.2023
YIQ	118.9680, 3.0260, 0.2260

# Conversions

## Conversions Part 2

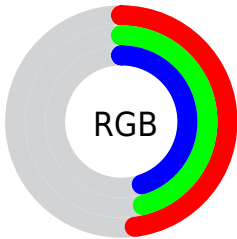
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	122, 119, 116
Decimal	8025716
CIE <sub>Lab</sub>	50.00, 1.14, 1.64
CIE <sub>LCh</sub>	50, 1.993, 55.156
Yxy	18.4187, 0.3202, 0.3328
Android (android.graphics.Color)	4286215796 (0xFF7A7674)
YUV	118.9680, -1.4632, 2.6591
Hunter-Lab	42.9170, -1.4144, 3.5137

# Details

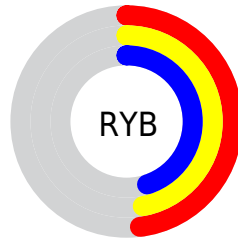
The CIELCh color **50, 1.993, 55.156** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **50, 1.953, 236.311**, and the grayscale version is **50, 0.007, 296.813**.

A 20% lighter version of the original color is **70, 1.859, 55.192**, and **30, 1.845, 63.158** is the 20% darker color. If you saturate the color by 10%, you get **47, 6.265, 54.579**, and if you desaturate by 10%, it is **53, 2.006, 236.309**.

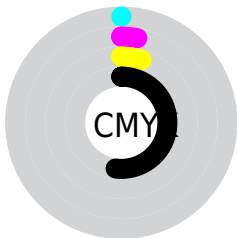
# Distribution



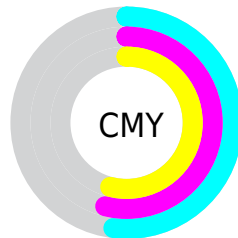
- Red (48%)
- Green (46%)
- Blue (45%)



- Red (48%)
- Yellow (47%)
- Blue (45%)



- Cyan (0%)
- Magenta (3%)
- Yellow (5%)
- Black (52%)














- Cyan (52%)
- Magenta (54%)
- Yellow (54%)




# Brightness & Saturation Gradients

These gradients show how the CIELCh color 50, 1.993, 55.156 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, 1.993, 55.156 by changing the saturation by 10% instead.



 50, 1.993, 55.156	 50, 1.993, 55.156
 100, 1.993, 55.156	 40, 1.993, 55.156
 70, 1.993, 55.156	 30, 1.993, 55.156
 80, 1.993, 55.156	 20, 1.993, 55.156
 90, 1.993, 55.156	 10, 1.993, 55.156
	 0, 1.993, 55.156

 50, 1.993, 55.156	 50, 1.993, 55.156
 47, 6.265, 54.579	 53, 2.006, 236.309
 45, 10.838, 53.906	 55, 5.762, 236.982
 42, 15.738, 53.280	 58, 9.301, 237.748

■ 40, 20.981, 52.724

■ 61, 12.651,  
238.522

■ 37, 26.565, 52.251

■ 63, 15.832,  
239.291

■ 35, 32.450, 51.855

■ 33, 38.524, 51.491

■ 66, 18.867,  
240.047

■ 31, 44.522, 51.029

■ 69, 21.772,  
240.785

■ 30, 49.996, 50.271

■ 72, 24.563,  
241.503

■ 74, 27.253,  
242.198

# Harmonies

# Complementary

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



50, 1.993, 55.156



50, 1.953, 236.311

# Rectangle

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



50, 1.993, 55.156



50, 1.993, 105.156



50, 1.993, 235.156



50, 1.993, 285.156

# Sweetspot

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



50, 1.993, 55.202



65, 0.492, 54.836



50, 3.386, 335.921



33, 0.278, 54.773



83, 0.010, 296.813



34, 0.005, 296.813



# Same Dimension

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



50, 1.993, 55.202



63, 3.020, 55.144



51, 2.927, 101.789



25, 1.610, 55.133



29, 53.667, 50.010



59, 92.778, 48.468





# Inverse Universe

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



50, 1.953, 236.311



64, 2.940, 236.383



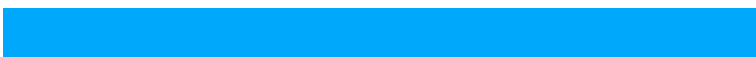
49, 2.956, 282.893



25, 1.566, 236.396



33, 29.984, 260.249



66, 52.060, 263.221



# Previews

## White Background



This preview shows how the CIELCh color 50, 1.993, 55.156 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 50, 1.993, 55.156 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

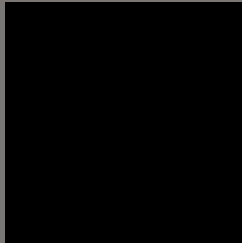
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

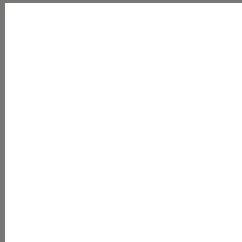
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 50, 1.993, 55.156

## Background



This preview shows how black text looks on a background with the CIELCh color 50, 1.993, 55.156.



This preview shows how white text looks on a background with the CIELCh color 50, 1.993, 55.156.

# 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, 1.993, 55.156

### Protanopia

50, 1.993, 55.156

### Deuteranopia

50, 6.682, 10.117



**Tritanopia**  
50, 5.985, 318.415



# Trichromacy



## Original Color

50, 1.993, 55.156

## Protanomaly

50, 1.993, 55.156

## Deuteranomaly

50, 4.952, 13.157

## Tritanomaly

50, 3.811, 329.617

# Monochromacy



## Original Color

50, 1.993, 55.156

## Achromatopsia

50, 0.007, 296.813

## Achromatomaly

50, 0.701, 74.868

# CSS Examples

## Text

The CSS property to change the color of the text to CIElCh 50, 1.993, 55.156 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(122, 118, 116)` looks like.

```
.text, #text, p{  
    color:rgb(122, 118, 116)  
}
```

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(122, 118, 116) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(122, 118, 116) }
```

## Border

The CSS property to change the border of an element to CIELCh 50, 1.993, 55.156 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(122, 118, 116) }
```

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

```
.border{ border-color:rgb(122, 118, 116) }
```

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

Here you see how a box with a 4 pixel `rgb(122, 118, 116)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(122, 118, 116); -webkit-box-  
shadow:4px 4px 4px 4px rgb(122, 118, 116);  
box-shadow:4px 4px 4px 4px rgb(122, 118,  
116) }
```

# Background

The CSS property to change the background color of an element to CIELCh 50, 1.993, 55.156 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(122, 118, 116) }
```

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

```
.background{ background-color: rgb(122,  
118, 116) }
```

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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