

# Converting Colors

CIELCh(51, 2.053, 189.465)

Have a look what the booklet for  
CIELCh(51, 2.053, 189.465) contains.

<b>CIELCh(51, 2.456, 185.575)</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(51, 2.456, 185.575)**

# Conversions

## Conversions Part 1

Format	Color
Hex	757B7A
RGB	117, 123, 122
RGB Percent	46%, 48%, 48%
CMY	0.5421, 0.5186, 0.5225
CMYK	0.05, 0.00, 0.01, 0.52
HSL	170°, 3%, 47%
HSV	170°, 5%, 48%
XYZ	17.8531, 19.2686, 21.1105
YIQ	121.0920, -3.2550, -1.5830

# Conversions

## Conversions Part 2

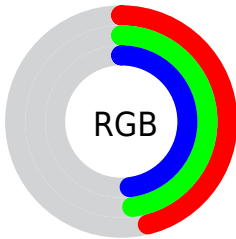
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	117, 120, 123
Decimal	7699322
CIE <sub>Lab</sub>	51.00, -2.44, -0.24
CIE <sub>LCh</sub>	51, 2.456, 185.575
Yxy	19.2686, 0.3066, 0.3309
Android (android.graphics.Color)	4285889402 (0xFF757B7A)
YUV	121.0920, 0.4476, -3.5887
Hunter-Lab	43.8960, -4.2196, 2.2134

# Details

The CIELCh color  $51, 2.456, 185.575$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $50, 2.510, 6.073$ , and the grayscale version is  $51, 0.007, 296.813$ .

A 20% lighter version of the original color is  $71, 2.306, 185.740$ , and  $31, 2.263, 182.826$  is the 20% darker color. If you saturate the color by 10%, you get  $50, 7.381, 184.617$ , and if you desaturate by 10%, it is  $52, 2.602, 6.073$ .

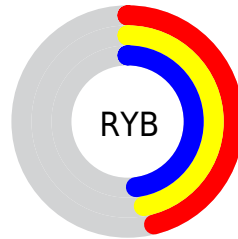
# Distribution



Red (46%)

Green (48%)

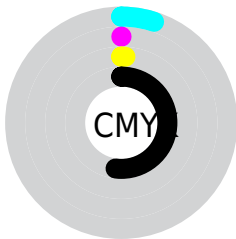
Blue (48%)



Red (46%)

Yellow (47%)

Blue (48%)

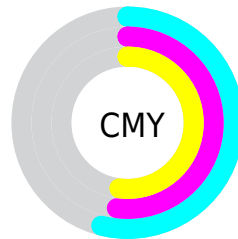


Cyan (5%)

Magenta (0%)

Yellow (1%)

Black (52%)



Cyan (54%)

Magenta (52%)

Yellow (52%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 51, 2.456, 185.575 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 51, 2.456, 185.575 by changing the saturation by 10% instead.



■ 51, 2.456, 185.575

■ 51, 2.456, 185.575

■ 100, 2.456,  
185.575

■ 41, 2.456, 185.575

■ 71, 2.456, 185.575

■ 31, 2.456, 185.575

■ 81, 2.456, 185.575

■ 21, 2.456, 185.575

■ 91, 2.456, 185.575

■ 11, 2.456, 185.575

■ 1, 2.456, 185.575

■ 0, 2.456, 185.575

■ 51, 2.456, 185.575

■ 51, 2.456, 185.575

■ 50, 7.381, 184.617

■ 52, 2.602, 6.073

■ 49, 12.103,

■ 53, 7.740, 6.949

183.728

55, 12.910, 7.730

48, 16.549,  
182.808

56, 18.075, 8.478

48, 20.642,  
181.840

57, 23.208, 9.204

47, 24.306,  
180.809

59, 28.287, 9.909

47, 27.474,  
179.696

62, 38.232, 11.258

46, 30.100,  
178.483

64, 43.082, 11.903

46, 32.168,  
177.150

46, 33.721,  
175.693

# Harmonies

# Complementary

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



51, 2.456, 185.575



50, 2.510, 6.073

# Rectangle

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



51, 2.456, 185.575



51, 2.456, 235.575



51, 2.456, 5.575



51, 2.456, 55.575

# Sweetspot

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



51, 2.457, 185.552



66, 0.627, 186.424



51, 4.026, 139.132



35, 0.359, 186.485



84, 0.010, 296.813



35, 0.005, 296.813



# Same Dimension

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



51, 2.457, 185.552



65, 3.754, 185.418



50, 1.950, 234.165



25, 1.974, 185.398



47, 34.916, 174.932



89, 59.415, 173.979





# Inverse Universe

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



50, 2.510, 6.073



63, 3.853, 6.214



50, 1.992, 53.113



24, 2.028, 6.235



25, 54.998, 29.888



53, 95.279, 32.891



# Previews

## White Background



This preview shows how the CIELCh color 51, 2.456, 185.575 looks on a white background.

## Color Contrast Check

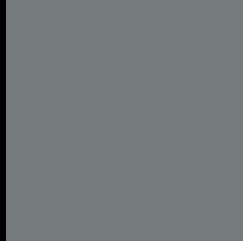
Large Text (above 18pt) WCAG AA ✓ Pass

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 51, 2.456, 185.575 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

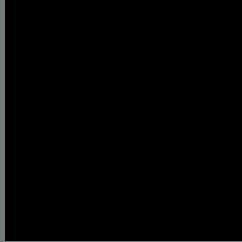
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

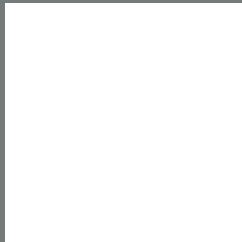
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 51, 2.456, 185.575

## Background



This preview shows how black text looks on a background with the CIELCh color 51, 2.456, 185.575.



This preview shows how white text looks on a background with the CIELCh color 51, 2.456, 185.575.

# 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

51, 2.456, 185.575

### Protanopia

51, 1.208, 19.223

### Deuteranopia

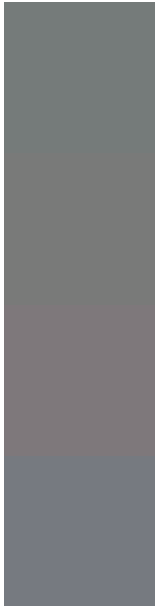
51, 6.380, 353.029



**Tritanopia**  
51, 5.925, 279.682



# Trichromacy



## Original Color

51, 2.456, 185.575

## Protanomaly

51, 0.705, 144.653

## Deuteranomaly

51, 2.992, 343.928

## Tritanomaly

51, 3.802, 266.459

# Monochromacy



## Original Color

51, 2.456, 185.575

## Achromatopsia

51, 0.007, 296.813

## Achromatomaly

51, 1.335, 173.723

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 51, 2.456, 185.575 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(117, 123, 122)` looks like.

```
.text, #text, p{  
    color:rgb(117, 123, 122)  
}
```

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(117, 123, 122) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(117, 123, 122) }
```

## Border

The CSS property to change the border of an element to CIELCh 51, 2.456, 185.575 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(117, 123, 122) }
```

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

```
.border{ border-color:rgb(117, 123, 122) }
```

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

Here you see how a box with a 4 pixel `rgb(117, 123, 122)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(117, 123, 122); -webkit-box-  
shadow:4px 4px 4px 4px rgb(117, 123, 122);  
box-shadow:4px 4px 4px 4px rgb(117, 123,  
122) }
```

# Background

The CSS property to change the background color of an element to CIELCh 51, 2.456, 185.575 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(117, 123, 122) }
```

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

```
.background{ background-color: rgb(117,  
123, 122) }
```

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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