

# Converting Colors

CIELCh(55, 0.925, 41.402)

Have a look what the booklet for  
CIELCh(55, 0.925, 41.402) contains.

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# Color

**CIELCh(55, 0.793, 18.979)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	858383
RGB	133, 131, 131
RGB Percent	52%, 51%, 51%
CMY	0.4777, 0.4855, 0.4855
CMYK	0.00, 0.02, 0.02, 0.48
HSL	0°, 1%, 52%
HSV	0°, 2%, 52%
XYZ	21.9547, 22.9298, 24.8092
YIQ	131.5980, 1.1920, 0.4240

# Conversions

## Conversions Part 2

<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	133, 131, 131
Decimal	8749955
CIE Lab	55.00, 0.75, 0.26
CIE LCh	55, 0.793, 18.979
Yxy	22.9298, 0.3150, 0.3290
Android (android.graphics.Color)	4286940035 (0xFF858383)
YUV	131.5980, -0.2948, 1.2296
Hunter-Lab	47.8851, -1.9589, 2.8015

# Details

The CIELCh color  $55, 0.793, 18.979$  is a dark color, and the websafe version is hex  $999999$ . A complement of this color would be  $55, 0.783, 199.947$ , and the grayscale version is  $55, 0.007, 296.813$ .

A 20% lighter version of the original color is  $75, 0.745, 18.770$ , and  $35, 0.862, 19.194$  is the 20% darker color. If you saturate the color by 10%, you get  $51, 6.293, 20.156$ , and if you desaturate by 10%, it is  $59, 4.308, 199.191$ .

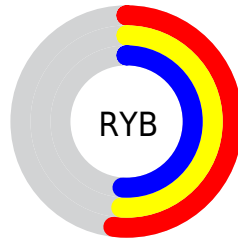
# Distribution



Red (52%)

Green (51%)

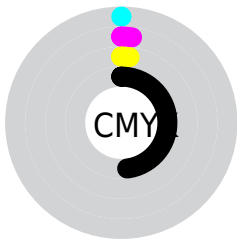
Blue (51%)



Red (52%)

Yellow (51%)

Blue (51%)

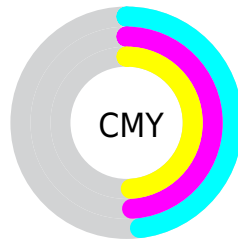


Cyan (0%)

Magenta (2%)

Yellow (2%)

Black (48%)



Cyan (48%)

Magenta (49%)

Yellow (49%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 55, 0.793, 18.979 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 55, 0.793, 18.979 by changing the saturation by 10% instead.



■ 55, 0.793, 18.979      ■ 55, 0.793, 18.979

100, 0.793, 18.979      ■ 45, 0.793, 18.979

■ 75, 0.793, 18.979      ■ 35, 0.793, 18.979

■ 85, 0.793, 18.979      ■ 25, 0.793, 18.979

■ 95, 0.793, 18.979      ■ 15, 0.793, 18.979

■ 5, 0.793, 18.979

■ 0, 0.793, 18.979

■ 55, 0.793, 18.979      ■ 55, 0.793, 18.979

■ 51, 6.293, 20.156      ■ 59, 4.308, 199.191

■ 47, 12.219, 20.993      ■ 63, 9.039, 198.746

43, 18.571, 22.042

67, 13.442,  
198.413

40, 25.316, 23.394

72, 17.551,  
198.147

36, 32.371, 25.144

33, 39.589, 27.389

76, 21.404,  
197.931

31, 46.759, 30.197

80, 25.031,  
197.753

29, 53.590, 33.501

28, 59.497, 36.812

84, 28.461,  
197.605

88, 31.717,  
197.480

92, 34.821,  
197.375

# Harmonies

# Complementary

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



55, 0.793, 18.979



55, 0.783, 199.947

# Rectangle

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



55, 0.793, 18.979



55, 0.793, 68.979



55, 0.793, 198.979



55, 0.793, 248.979

# Sweetspot

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



55, 0.792, 19.076



71, 0.009, 296.813



55, 1.407, 324.386



37, 0.005, 296.813



86, 0.010, 296.813

# Same Dimension

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



55, 0.792, 19.076



70, 1.310, 19.244



55, 0.687, 74.849



28, 0.593, 19.185



26, 62.102, 38.531



0, 0.706, 19.504





# Inverse Universe

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



55, 0.783, 199.947



71, 1.292, 199.779



55, 0.696, 255.985



28, 0.586, 199.837



49, 30.359, 196.563



1, 0.706, 199.521



# Previews

## White Background



This preview shows how the CIELCh color 55, 0.793, 18.979 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 CIELCh color 55, 0.793, 18.979 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

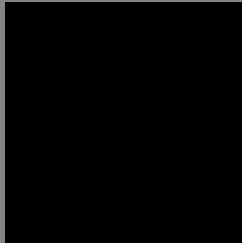
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

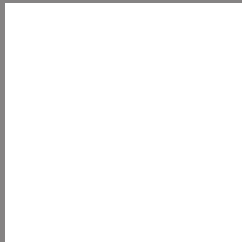
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 55, 0.793, 18.979**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 55, 0.793, 18.979.



This preview shows how white text looks on a background with the CIELCh color 55, 0.793, 18.979.

# 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


55, 0.793, 18.979

### Protanopia

55, 1.190, 19.191

### Deuteranopia

55, 7.397, 357.426



**Tritanopia**  
55, 6.093, 309.359

# Trichromacy



**Original Color**  
55, 0.793, 18.979

**Protanomaly**  
55, 1.190, 19.191

**Deuteranomaly**  
55, 4.723, 358.517

**Tritanomaly**  
55, 4.339, 311.705

# Monochromacy



**Original Color**  
55, 0.793, 18.979

**Achromatopsia**  
55, 0.007, 296.813

**Achromatomaly**  
55, 0.007, 296.813



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 55, 0.793, 18.979 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(133, 131, 131)` looks like.

```
.text, #text, p{  
    color:rgb(133, 131, 131)  
}
```

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(133, 131, 131) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 131, 131) }
```

## Border

The CSS property to change the border of an element to CIELCh 55, 0.793, 18.979 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(133, 131, 131) }
```

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

```
.border{ border-color:rgb(133, 131, 131) }
```

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

Here you see how a box with a 4 pixel `rgb(133, 131, 131)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 131, 131); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 131, 131);  
box-shadow:4px 4px 4px 4px rgb(133, 131,  
131) }
```

# Background

The CSS property to change the background color of an element to CIELCh 55, 0.793, 18.979 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 131, 131) }
```

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

```
.background{ background-color: rgb(133,  
131, 131) }
```

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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