

# Converting Colors

CIELCh(70, 55.003, 143.605)

Have a look what the booklet for  
CIELCh(70, 55.003, 143.605)  
contains.

<b>CIELCh(70, 55.039, 143.578)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	21
<b><i>Color Blindness Simulation</i></b> .....	24
<b><i>CSS Examples</i></b> .....	27

**Color**

**CIELCh(70, 55.039, 143.578)**

# Conversions

## Conversions Part 1

Format	Color
Hex	63BE6D
RGB	99, 190, 109
RGB Percent	39%, 75%, 43%
CMY	0.6105, 0.2536, 0.5714
CMYK	0.48, 0.00, 0.43, 0.25
HSL	127°, 41%, 57%
HSV	127°, 48%, 75%
XYZ	26.4415, 40.7494, 21.0241
YIQ	153.5570, -28.2350, -44.4830

# Conversions

## Conversions Part 2

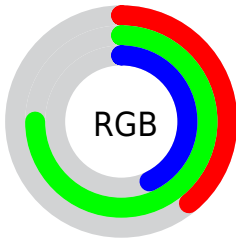
<b>Format</b>	<b>Color</b>
<b>RYB</b>	99, 181, 190
Decimal	6536813
CIELab	70.00, -44.29, 32.68
CIELCh	70, 55.039, 143.578
Yxy	40.7494, 0.2997, 0.4619
Android (android.graphics.Color)	4284726893 (0xFF63BE6D)
YUV	153.5570, -21.9666, -47.8465
Hunter-Lab	63.8353, -37.7745, 25.1576

# Details

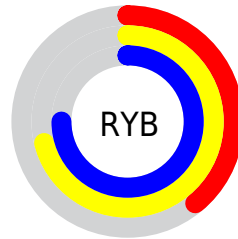
The CIELCh color **70, 55.039, 143.578** is a dark color, and the websafe version is hex **66CC66**. A complement of this color would be **55, 54.796, 330.357**, and the grayscale version is **64, 0.008, 296.813**.

A 20% lighter version of the original color is **90, 54.812, 143.690**, and **50, 54.969, 143.599** is the 20% darker color. If you saturate the color by 10%, you get **69, 65.369, 142.360**, and if you desaturate by 10%, it is **71, 43.990, 144.660**.

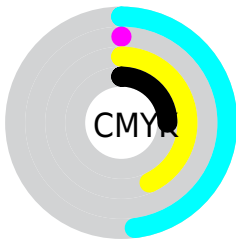
# Distribution



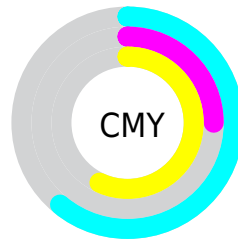
- Red (39%)
- Green (75%)
- Blue (43%)



- Red (39%)
- Yellow (71%)
- Blue (75%)



- Cyan (48%)
- Magenta (0%)
- Yellow (43%)
- Black (25%)




- Cyan (61%)
- Magenta (25%)
- Yellow (57%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 70, 55.039, 143.578 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 70, 55.039, 143.578 by changing the saturation by 10% instead.





 70, 55.039,  
143.578


 70, 55.039,  
143.578


 100, 55.039,  
143.578


 60, 55.039,  
143.578


 90, 55.039,  
143.578

 50, 55.039,  
143.578

 40, 55.039,  
143.578

 30, 55.039,  
143.578

 20, 55.039,  
143.578

 10, 55.039,  
143.578

 0, 55.039, 143.578

70, 55.039,  
143.578

70, 55.039,  
143.578

69, 65.369,  
142.360

71, 43.990,  
144.660

68, 74.665,  
141.030

72, 32.497,  
145.602

68, 82.595,  
139.648

74, 20.796,  
146.415

68, 88.829,  
138.314

76, 9.073, 147.125

78, 2.528, 327.579

67, 93.135,  
137.181

80, 13.907,  
328.175

67, 93.849,  
137.005

82, 24.996,  
328.620

84, 35.752,  
329.000

■ 85, 40.551,  
325.831

# Harmonies

# Complementary

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



70, 55.039, 143.578



55, 54.796, 330.357

# Rectangle

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



70, 55.039, 143.578



70, 55.039, 193.578



70, 55.039, 323.578



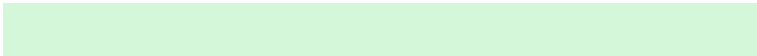
70, 55.039, 13.578

# Sweetspot

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



70, 55.040, 143.578



94, 20.191, 146.680



75, 47.493, 110.307



50, 14.066, 146.520



99, 0.012, 296.813



52, 0.007, 296.813





# Same Dimension

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



70, 55.040, 143.578



88, 79.717, 142.347



71, 37.242, 164.315



39, 6.542, 147.021



57, 81.488, 137.168



9, 20.557, 146.501



# Inverse Universe

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



55, 54.796, 330.357



67, 78.738, 330.930



54, 40.798, 355.101



37, 6.556, 328.078



36, 74.265, 333.075



3, 19.286, 329.699



# Previews

## White Background



This preview shows how the CIELCh color 70, 55.039, 143.578 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 70, 55.039, 143.578 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

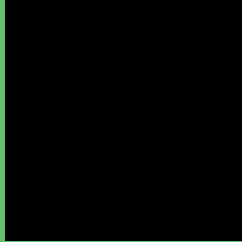
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**CIELCh 70, 55.039, 143.578**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 70, 55.039, 143.578.



This preview shows how white text looks on a background with the CIELCh color 70, 55.039, 143.578.

# 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**  
70, 55.039, 143.578

**Protanopia**  
70, 37.217, 95.705

**Deuteranopia**  
70, 31.173, 74.085





**Tritanopia**  
70, 21.238, 220.942

# Trichromacy



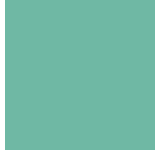
**Original Color**  
70, 55.039, 143.578



**Protanomaly**  
69, 39.613, 120.280



**Deuteranomaly**  
69, 31.946, 112.924



**Tritanomaly**  
70, 27.682, 173.786

# Monochromacy



**Original Color**  
70, 55.039, 143.578



**Achromatopsia**  
64, 0.008, 296.813



**Achromatomaly**  
65, 20.577, 146.633

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 70, 55.039, 143.578 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(99, 190, 109)` looks like.

```
.text, #text, p{  
    color:rgb(99, 190, 109)  
}
```

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(99, 190, 109) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(99, 190, 109) }
```

## Border

The CSS property to change the border of an element to CIELCh 70, 55.039, 143.578 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(99, 190, 109) }
```

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

```
.border{ border-color:rgb(99, 190, 109) }
```

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

Here you see how a box with a 4 pixel `rgb(99, 190, 109)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(99, 190, 109); -webkit-box-  
shadow:4px 4px 4px 4px rgb(99, 190, 109);  
box-shadow:4px 4px 4px 4px rgb(99, 190,  
109) }
```

# Background

The CSS property to change the background color of an element to CIELCh 70, 55.039, 143.578 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(99, 190, 109) }
```

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

```
.background{ background-color: rgb(99, 190,  
109) }
```

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