

# Converting Colors

CIELCh(66, 56.306, 122.430)

Have a look what the booklet for  
CIELCh(66, 56.306, 122.430)  
contains.

<b>CIELCh(66, 56.189, 122.280)</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(66, 56.189, 122.280)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	85AD46
RGB	133, 173, 70
RGB Percent	52%, 68%, 27%
CMY	0.4784, 0.3215, 0.7254
CMYK	0.23, 0.00, 0.60, 0.32
HSL	83°, 42%, 48%
HSV	83°, 60%, 68%
XYZ	25.7282, 35.3238, 11.2593
YIQ	149.2980, 9.2230, -40.5130

# Conversions

## Conversions Part 2

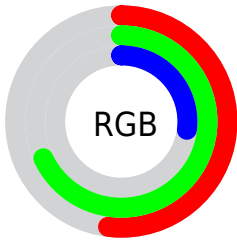
Format	Color
<a href="#">RYB</a>	<a href="#">70, 173, 110</a>
Decimal	<a href="#">8760646</a>
CIELab	<a href="#">66.00, -30.01, 47.50</a>
CIElCh	<a href="#">66, 56.189, 122.280</a>
Yxy	<a href="#">35.3238, 0.3558, 0.4885</a>
Android (android.graphics.Color)	<a href="#">4286950726 (0xFF85AD46)</a>
YUV	<a href="#">149.2980, -39.0939, -14.2933</a>
Hunter-Lab	<a href="#">59.4338, -26.7386, 30.3716</a>

# Details

The CIELCh color **66, 56.189, 122.280** is a dark color, and the websafe version is hex **669933**. A complement of this color would be **39, 63.081, 308.826**, and the grayscale version is **62, 0.008, 296.813**.

A 20% lighter version of the original color is **86, 56.434, 122.504**, and **46, 55.893, 122.182** is the 20% darker color. If you saturate the color by 10%, you get **65, 63.942, 122.123**, and if you desaturate by 10%, it is **67, 47.565, 122.628**.

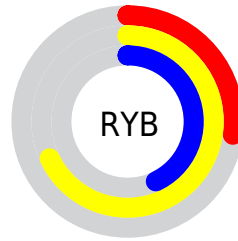
# Distribution



Red (52%)

Green (68%)

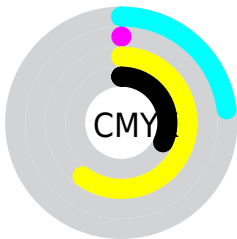
Blue (27%)



Red (27%)

Yellow (68%)

Blue (43%)

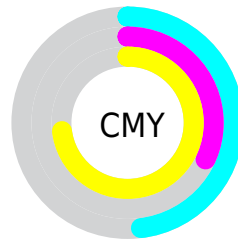


Cyan (23%)

Magenta (0%)

Yellow (60%)

Black (32%)



Cyan (48%)

Magenta (32%)


Yellow (73%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 66, 56.189, 122.280 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 66, 56.189, 122.280 by changing the saturation by 10% instead.





 66, 56.189,  
122.280


 66, 56.189,  
122.280


 100, 56.189,  
122.280


 56, 56.189,  
122.280


 86, 56.189,  
122.280

 46, 56.189,  
122.280

 96, 56.189,  
122.280

 36, 56.189,  
122.280

 26, 56.189,  
122.280

 16, 56.189,  
122.280

 6, 56.189, 122.280

 0, 56.189, 122.280

66, 56.189,  
122.280

66, 56.189,  
122.280

65, 63.942,  
122.123

67, 47.565,  
122.628

65, 70.421,  
122.260

67, 38.380,  
123.080

65, 75.222,  
122.809

68, 28.856,  
123.584

64, 78.424,  
123.746

69, 19.143,  
124.104

64, 78.568,  
123.788

70, 9.344, 124.618

71, 0.468, 304.947

72, 10.245,  
305.555

73, 19.949,  
305.987

■ 74, 29.554,  
306.383

# Harmonies

# Complementary

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



66, 56.189, 122.280



39, 63.081, 308.826

# Rectangle

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



66, 56.189, 122.280



66, 56.189, 172.280



66, 56.189, 302.280



66, 56.189, 352.280

# Sweetspot

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



66, 56.190, 122.281



87, 21.801, 124.167



52, 38.653, 56.685



46, 15.123, 124.020



95, 0.011, 296.813



47, 0.006, 296.813





# Same Dimension

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



66, 56.190, 122.281



83, 79.951, 122.126



63, 64.614, 137.173



36, 5.560, 124.630



56, 70.786, 123.607



6, 12.005, 128.514



# Inverse Universe

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



39, 63.081, 308.826



44, 92.477, 309.576



46, 64.947, 323.772



34, 5.651, 305.542



21, 86.003, 309.832



1, 11.646, 302.429



# Previews

## White Background



This preview shows how the CIELCh color 66, 56.189, 122.280 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 66, 56.189, 122.280 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 66, 56.189, 122.280**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 66, 56.189, 122.280.



This preview shows how white text looks on a background with the CIELCh color 66, 56.189, 122.280.

# 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

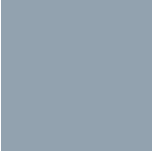


**Original Color**  
66, 56.189, 122.280

**Protanopia**  
66, 50.264, 95.526

**Deuteranopia**  
66, 46.457, 79.554





**Tritanopia**  
66, 9.090, 251.793

# Trichromacy



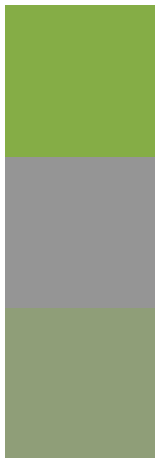
**Original Color**  
66, 56.189, 122.280

**Protanomaly**  
66, 51.221, 106.244

**Deuteranomaly**  
65, 46.261, 97.443

**Tritanomaly**  
66, 18.818, 139.746

# Monochromacy



**Original Color**  
66, 56.189, 122.280

**Achromatopsia**  
62, 0.008, 296.813

**Achromatomaly**  
63, 21.897, 124.118

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 66, 56.189, 122.280 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, 173, 70)` looks like.

```
.text, #text, p{  
    color:rgb(133, 173, 70)  
}
```

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, 173, 70) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(133, 173, 70) }
```

## Border

The CSS property to change the border of an element to CIELCh 66, 56.189, 122.280 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, 173, 70) }
```

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

```
.border{ border-color:rgb(133, 173, 70) }
```

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

Here you see how a box with a 4 pixel `rgb(133, 173, 70)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(133, 173, 70); -webkit-box-  
shadow:4px 4px 4px 4px rgb(133, 173, 70);  
box-shadow:4px 4px 4px 4px rgb(133, 173,  
70) }
```

# Background

The CSS property to change the background color of an element to CIELCh 66, 56.189, 122.280 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(133, 173, 70) }
```

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

```
.background{ background-color: rgb(133,  
173, 70) }
```

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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