

# Converting Colors

CIELCh(75, 87.947, 122.496)

Have a look what the booklet for  
CIELCh(75, 87.947, 122.496)  
contains.

<b>CIELCh(75, 87.819, 122.469)</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(75, 87.819, 122.469)**

# Conversions

## Conversions Part 1

Format	Color
Hex	84CC02
RGB	132, 204, 2
RGB Percent	52%, 80%, 1%
CMY	0.4810, 0.1987, 0.9923
CMYK	0.35, 0.00, 0.99, 0.20
HSL	81°, 98%, 40%
HSV	81°, 99%, 80%
XYZ	31.2500, 48.2781, 7.7276
YIQ	159.4440, 21.9300, -78.0860

# Conversions

## Conversions Part 2

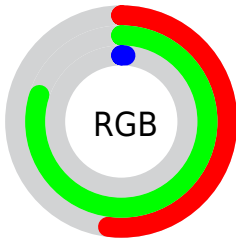
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	2, 204, 74
Decimal	8702978
CIE Lab	75.00, -47.15, 74.09
CIE LCh	75, 87.819, 122.469
Yxy	48.2781, 0.3581, 0.5533
Android (android.graphics.Color)	4286893058 (0xFF84CC02)
YUV	159.4440, -77.6199, -24.0684
Hunter-Lab	69.4824, -41.3133, 42.0437

# Details

The CIELCh color **75, 87.819, 122.469** is a dark color, and the websafe version is hex **99CC00**. The color can be described as dark washed chartreuse. A complement of this color would be **29, 108.392, 309.077**, and the grayscale version is **66, 0.008, 296.813**.

A 20% lighter version of the original color is **93, 84.766, 121.468**, and **55, 73.110, 128.096** is the 20% darker color. If you saturate the color by 10%, you get **75, 88.101, 122.569**, and if you desaturate by 10%, it is **75, 84.546, 121.480**.

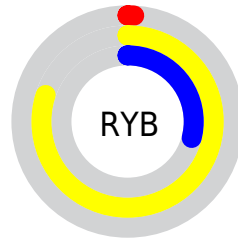
# Distribution



Red (52%)

Green (80%)

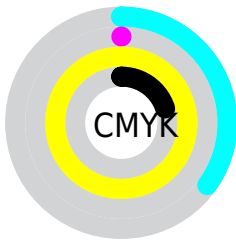
Blue (1%)



Red (1%)

Yellow (80%)

Blue (29%)

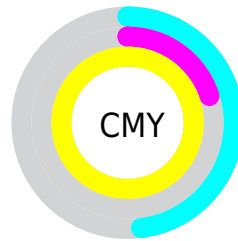


Cyan (35%)

Magenta (0%)

Yellow (99%)

Black (20%)



Cyan (48%)

Magenta (20%)


Yellow (99%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 75, 87.819, 122.469 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 75, 87.819, 122.469 by changing the saturation by 10% instead.




 75, 87.819,  
122.469

 75, 87.819,  
122.469

 100, 87.819,  
122.469

 65, 87.819,  
122.469

 95, 87.819,  
122.469

 55, 87.819,  
122.469

 45, 87.819,  
122.469

 35, 87.819,  
122.469

 25, 87.819,  
122.469

 15, 87.819,  
122.469

 5, 87.819, 122.469

■ 0, 87.819, 122.469

■ 75, 87.819,  
122.469

■ 75, 87.819,  
122.469

■ 75, 88.101,  
122.569

■ 75, 84.546,  
121.480

■ 76, 79.265,  
120.928

■ 76, 72.019,  
120.796

■ 77, 63.276,  
120.966

■ 78, 53.510,  
121.329

■ 78, 43.087,  
121.803

■ 79, 32.267,  
122.331

■ 80, 21.225,  
122.876

■ 81, 10.079,  
123.418

# Harmonies

# Complementary

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



75, 87.819, 122.469



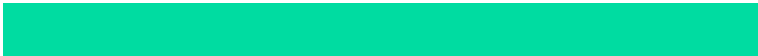
29, 108.392, 309.077

# Rectangle

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



75, 87.819, 122.469



75, 87.819, 172.469



75, 87.819, 302.469



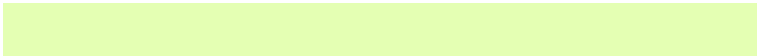
75, 87.819, 352.469

# Sweetspot

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



75, 87.819, 122.470



96, 39.880, 122.257



49, 77.407, 49.918



51, 27.137, 122.029



0, 0.000, 0.000



53, 0.007, 296.813





# Same Dimension

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



75, 87.819, 122.470



91, 104.265, 122.773



72, 100.003, 135.219



43, 6.321, 123.398



62, 75.282, 122.336



13, 23.366, 124.520



# Inverse Universe

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



29, 108.392, 309.077



37, 128.862, 308.929



43, 98.777, 322.493



40, 6.432, 304.380



23, 93.025, 309.207



2, 24.018, 301.763



# Previews

## White Background



This preview shows how the CIELCh color 75, 87.819, 122.469 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 CIE LCh color 75, 87.819, 122.469 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

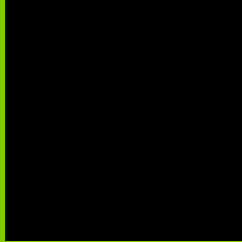
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

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

**CIELCh 75, 87.819, 122.469**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 75, 87.819, 122.469.



This preview shows how white text looks on a background with the CIELCh color 75, 87.819, 122.469.

# 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

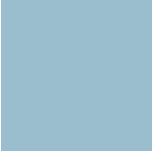


**Original Color**  
75, 87.726, 122.497

**Protanopia**  
75, 76.596, 95.087

**Deuteranopia**  
74, 70.782, 82.212





**Tritanopia**  
75, 14.400, 233.072

# Trichromacy



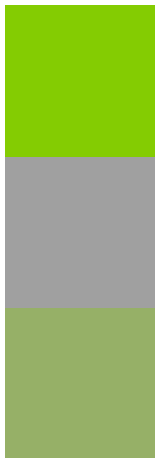
**Original Color**  
75, 87.726, 122.497

**Protanomaly**  
74, 78.073, 106.423

**Deuteranomaly**  
74, 72.709, 99.655

**Tritanomaly**  
74, 39.109, 136.091

# Monochromacy



**Original Color**  
75, 87.726, 122.497

**Achromatopsia**  
66, 0.008, 296.813

**Achromatomaly**  
68, 40.475, 121.717

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 75, 87.819, 122.469 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(132, 204, 2)` looks like.

```
.text, #text, p{  
    color:rgb(132, 204, 2)  
}
```

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(132, 204, 2) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(132, 204, 2) }
```

## Border

The CSS property to change the border of an element to CIELCh 75, 87.819, 122.469 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(132, 204, 2) }
```

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

```
.border{ border-color:rgb(132, 204, 2) }
```

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

Here you see how a box with a 4 pixel `rgb(132, 204, 2)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(132, 204, 2); -webkit-box-  
shadow:4px 4px 4px 4px rgb(132, 204, 2);  
box-shadow:4px 4px 4px 4px rgb(132, 204,  
2) }
```

# Background

The CSS property to change the background color of an element to CIELCh 75, 87.819, 122.469 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(132, 204, 2) }
```

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

```
.background{ background-color: rgb(132,  
204, 2) }
```

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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