

# Converting Colors

CIELCh(75, 48.823, 125.432)

Have a look what the booklet for  
CIELCh(75, 48.823, 125.432)  
contains.

<b>CIELCh(75, 48.715, 125.338)</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, 48.715, 125.338)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	9DC56D
RGB	157, 197, 109
RGB Percent	62%, 77%, 43%
CMY	0.3838, 0.2269, 0.5721
CMYK	0.20, 0.00, 0.45, 0.23
HSL	87°, 43%, 60%
HSV	87°, 45%, 77%
XYZ	36.6914, 48.2781, 21.8865
YIQ	175.0080, 4.4080, -35.8480

# Conversions

## Conversions Part 2

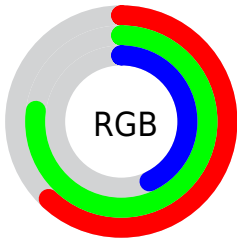
<b>Format</b>	<b>Color</b>
<b>RYB</b>	109, 197, 149
Decimal	10339693
CIELab	75.00, -28.18, 39.74
CIElCh	75, 48.715, 125.338
Yxy	48.2781, 0.3434, 0.4518
Android (android.graphics.Color)	4288529773 (0xFF9DC56D)
YUV	175.0080, -32.5419, -15.7930
Hunter-Lab	69.4824, -27.3343, 29.9618

# Details

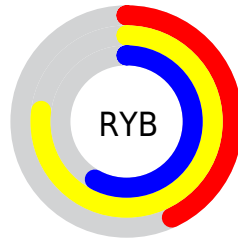
The CIELCh color **75, 48.715, 125.338** is a light color, and the websafe version is hex **99CC66**. A complement of this color would be **53, 52.370, 309.884**, and the grayscale version is **72, 0.009, 296.813**.

A 20% lighter version of the original color is **95, 48.777, 125.373**, and **55, 48.558, 125.226** is the 20% darker color. If you saturate the color by 10%, you get **74, 58.820, 124.949**, and if you desaturate by 10%, it is **76, 38.113, 125.805**.

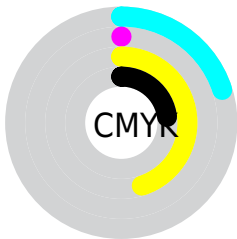
# Distribution



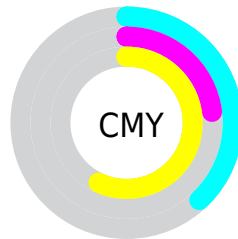
- Red (62%)
- Green (77%)
- Blue (43%)



- Red (43%)
- Yellow (77%)
- Blue (58%)



- Cyan (20%)
- Magenta (0%)
- Yellow (45%)
- Black (23%)




- Cyan (38%)
- Magenta (23%)
- Yellow (57%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 75, 48.715, 125.338 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, 48.715, 125.338 by changing the saturation by 10% instead.




 75, 48.715,  
125.338

 75, 48.715,  
125.338


 100, 48.715,  
125.338


 65, 48.715,  
125.338


 95, 48.715,  
125.338


 55, 48.715,  
125.338

 45, 48.715,  
125.338

 35, 48.715,  
125.338

 25, 48.715,  
125.338

 15, 48.715,  
125.338

 5, 48.715, 125.338

0, 48.715, 125.338

75, 48.715,  
125.338

75, 48.715,  
125.338

74, 58.820,  
124.949

76, 38.113,  
125.805

74, 68.117,  
124.706

77, 27.223,  
126.299

73, 76.191,  
124.713

78, 16.193,  
126.791

72, 82.567,  
125.096

79, 5.125, 127.276

72, 86.883,  
125.959

80, 5.911, 307.680

82, 16.865,  
308.100

72, 88.607,  
126.534

83, 27.699,

308.475

■ 84, 32.518,  
311.742

■ 85, 33.590,  
316.780

# Harmonies

# Complementary

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



75, 48.715, 125.338



53, 52.370, 309.884

# Rectangle

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



75, 48.715, 125.338



75, 48.715, 175.338



75, 48.715, 305.338



75, 48.715, 355.338

# Sweetspot

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



75, 48.716, 125.339



98, 17.713, 126.862



65, 30.907, 64.749



52, 12.396, 126.753



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, 48.716, 125.339



93, 71.610, 124.943



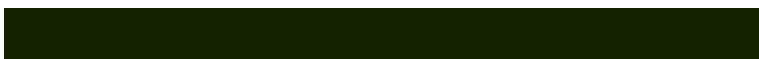
73, 56.326, 139.887



41, 6.312, 127.045



60, 76.861, 126.306



12, 22.496, 129.673



# Inverse Universe

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



53, 52.370, 309.884



61, 78.486, 310.480



58, 56.386, 325.299



39, 6.406, 307.894



24, 90.137, 311.018



2, 22.198, 304.319



# Previews

## White Background



This preview shows how the CIELCh color 75, 48.715, 125.338 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 75, 48.715, 125.338 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, 48.715, 125.338

## Background



This preview shows how black text looks on a background with the CIELCh color 75, 48.715, 125.338.



This preview shows how white text looks on a background with the CIELCh color 75, 48.715, 125.338.

# 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, 48.715, 125.338

**Protanopia**  
75, 42.919, 95.702

**Deuteranopia**  
75, 39.315, 75.954





**Tritanopia**  
75, 9.501, 252.043

# Trichromacy



**Original Color**  
75, 48.715, 125.338

**Protanomaly**  
75, 43.487, 107.677

**Deuteranomaly**  
75, 38.695, 96.990

**Tritanomaly**  
75, 15.845, 146.899

# Monochromacy



**Original Color**  
75, 48.715, 125.338

**Achromatopsia**  
71, 0.009, 296.813

**Achromatomaly**  
73, 18.130, 126.033

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 75, 48.715, 125.338 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(157, 197, 109)` looks like.

```
.text, #text, p{  
    color:rgb(157, 197, 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(157, 197, 109) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(157, 197, 109) }
```

## Border

The CSS property to change the border of an element to CIELCh 75, 48.715, 125.338 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(157, 197, 109) }
```

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

```
.border{ border-color:rgb(157, 197, 109) }
```

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

Here you see how a box with a 4 pixel `rgb(157, 197, 109)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(157, 197, 109); -webkit-box-  
shadow:4px 4px 4px 4px rgb(157, 197, 109);  
box-shadow:4px 4px 4px 4px rgb(157, 197,  
109) }
```

# Background

The CSS property to change the background color of an element to CIELCh 75, 48.715, 125.338 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(157, 197, 109) }
```

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

```
.background{ background-color: rgb(157,  
197, 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