

# Converting Colors

CIELCh(48, 24.731, 129.551)

Have a look what the booklet for  
CIELCh(48, 24.731, 129.551)  
contains.

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# Color

**CIELCh(48, 25.053, 129.349)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	637951
RGB	99, 121, 81
RGB Percent	39%, 47%, 32%
CMY	0.6133, 0.5271, 0.6839
CMYK	0.18, 0.00, 0.33, 0.53
HSL	93°, 20%, 39%
HSV	93°, 33%, 47%
XYZ	13.3609, 16.7945, 10.2467
YIQ	109.8620, -0.2720, -17.1040

# Conversions

## Conversions Part 2

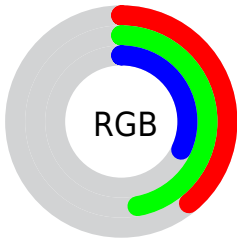
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	81, 121, 103
Decimal	6519121
CIE Lab	48.00, -15.88, 19.37
CIE LCh	48, 25.053, 129.349
Yxy	16.7945, 0.3307, 0.4157
Android (android.graphics.Color)	4284709201 (0xFF637951)
YUV	109.8620, -14.2290, -9.5260
Hunter-Lab	40.9810, -13.5212, 13.8621

# Details

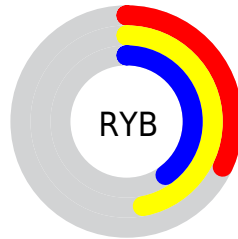
The CIELCh color  $48, 25.053, 129.349$  is a dark color, and the websafe version is hex  $666633$ . A complement of this color would be  $38, 26.055, 312.263$ , and the grayscale version is  $46, 0.006, 296.813$ .

A 20% lighter version of the original color is  $68, 24.678, 129.640$ , and  $28, 24.692, 129.848$  is the 20% darker color. If you saturate the color by 10%, you get  $47, 32.428, 128.891$ , and if you desaturate by 10%, it is  $49, 17.534, 129.815$ .

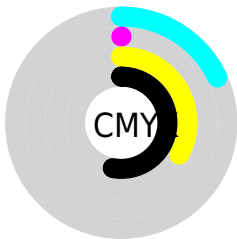
# Distribution



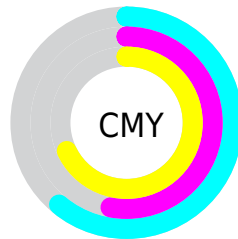
- Red (39%)
- Green (47%)
- Blue (32%)



- Red (32%)
- Yellow (47%)
- Blue (40%)



- Cyan (18%)
- Magenta (0%)
- Yellow (33%)
- Black (53%)



- Cyan (61%)
- Magenta (53%)
- Yellow (68%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 48, 25.053, 129.349 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 48, 25.053, 129.349 by changing the saturation by 10% instead.





 48, 25.053,  
129.349


 48, 25.053,  
129.349


 100, 25.053,  
129.349


 38, 25.053,  
129.349

 68, 25.053,  
129.349


 28, 25.053,  
129.349

 78, 25.053,  
129.349

 18, 25.053,  
129.349

 88, 25.053,  
129.349

 8, 25.053, 129.349

 98, 25.053,  
129.349

 0, 25.053, 129.349

 48, 25.053,

 48, 25.053,

129.349

129.349

■ 47, 32.428,  
128.891

■ 49, 17.534,  
129.815

■ 47, 39.533,  
128.471

■ 50, 9.953, 130.266

■ 46, 46.196,  
128.146

■ 50, 2.374, 130.715

■ 51, 5.160, 311.043

■ 46, 52.185,  
127.998

■ 52, 12.616,  
311.404

■ 45, 57.208,  
128.134

■ 53, 19.972,  
311.722

■ 45, 60.999,  
128.656

■ 54, 27.211,  
312.005

■ 45, 63.302,  
129.009

■ 55, 34.325,  
312.256

■ 57, 41.305,



# Harmonies

# Complementary

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



48, 25.053, 129.349



38, 26.055, 312.263

# Rectangle

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



48, 25.053, 129.349



48, 25.053, 179.349



48, 25.053, 309.349



48, 25.053, 359.349

# Sweetspot

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



48, 25.054, 129.350



63, 9.315, 130.394



45, 15.510, 76.529



33, 6.407, 130.344



83, 0.010, 296.813



34, 0.005, 296.813





# Same Dimension

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



48, 25.054, 129.350



60, 37.083, 128.990



47, 27.779, 143.531



25, 4.310, 130.444



46, 64.975, 129.068



89, 110.341, 129.911



# Inverse Universe

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



38, 26.055, 312.263



45, 38.956, 312.635



40, 27.777, 327.576



24, 4.360, 311.159



19, 72.547, 313.473



42, 122.736, 312.882



# Previews

## White Background



This preview shows how the CIELCh color 48, 25.053, 129.349 looks on a white 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

# Black Background



This preview shows how the CIE LCh color 48, 25.053, 129.349 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

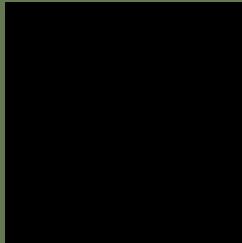
Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

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

**CIELCh 48, 25.053, 129.349**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 48, 25.053, 129.349.



This preview shows how white text looks on a background with the CIELCh color 48, 25.053, 129.349.

# 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

48, 25.053, 129.349

### Protanopia

48, 21.369, 96.289

### Deuteranopia

48, 19.501, 70.783





**Tritanopia**  
48, 6.470, 254.506

# Trichromacy



**Original Color**  
48, 25.053, 129.349

**Protanomaly**  
48, 21.492, 109.628

**Deuteranomaly**  
48, 18.579, 95.109

**Tritanomaly**  
48, 7.811, 155.871

# Monochromacy



**Original Color**  
48, 25.053, 129.349

**Achromatopsia**  
46, 0.006, 296.813

**Achromatomaly**  
47, 8.935, 131.031

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 48, 25.053, 129.349 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, 121, 81)` looks like.

```
.text, #text, p{  
    color:rgb(99, 121, 81)  
}
```

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, 121, 81) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(99, 121, 81) }
```

## Border

The CSS property to change the border of an element to CIELCh 48, 25.053, 129.349 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, 121, 81) }
```

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

```
.border{ border-color:rgb(99, 121, 81) }
```

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

Here you see how a box with a 4 pixel `rgb(99, 121, 81)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(99, 121, 81); -webkit-box-  
shadow:4px 4px 4px 4px rgb(99, 121, 81);  
box-shadow:4px 4px 4px 4px rgb(99, 121,  
81) }
```

# Background

The CSS property to change the background color of an element to CIELCh 48, 25.053, 129.349 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(99, 121, 81) }
```

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

```
.background{ background-color: rgb(99, 121,  
81) }
```

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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