

# Converting Colors

CIELCh(48, 24.431, 326.334)

Have a look what the booklet for  
CIELCh(48, 24.431, 326.334)  
contains.

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**Color**

**CIELCh(48, 24.136, 326.563)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	8A6789
RGB	138, 103, 137
RGB Percent	54%, 40%, 54%
CMY	0.4603, 0.5975, 0.4642
CMYK	0.00, 0.25, 0.01, 0.46
HSL	302°, 15%, 47%
HSV	302°, 25%, 54%
XYZ	19.7205, 16.7945, 25.7272
YIQ	117.3410, 9.9460, 17.9940

# Conversions

## Conversions Part 2

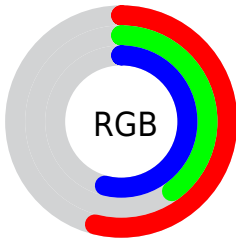
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	138, 103, 137
Decimal	9070473
CIE <sub>Lab</sub>	48.00, 20.14, -13.30
CIE <sub>LCh</sub>	48, 24.136, 326.563
Yxy	16.7945, 0.3168, 0.2698
Android (android.graphics.Color)	4287260553 (0xFF8A6789)
YUV	117.3410, 9.6919, 18.1179
Hunter-Lab	40.9810, 14.1793, -8.5345

# Details

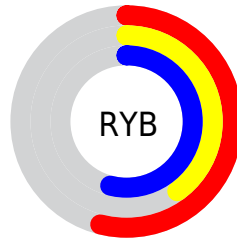
The CIELCh color  $48, 24.136, 326.563$  is a dark color, and the websafe version is hex  $996699$ . A complement of this color would be  $54, 24.121, 143.557$ , and the grayscale version is  $49, 0.007, 296.813$ .

A 20% lighter version of the original color is  $68, 24.255, 326.978$ , and  $28, 24.316, 326.260$  is the 20% darker color. If you saturate the color by 10%, you get  $45, 33.491, 327.088$ , and if you desaturate by 10%, it is  $52, 14.617, 326.022$ .

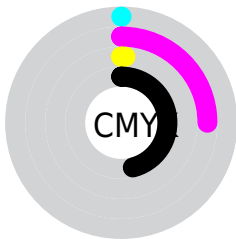
# Distribution



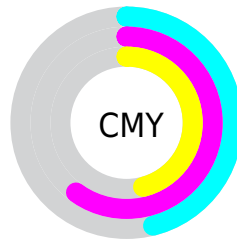
- Red (54%)
- Green (40%)
- Blue (54%)



- Red (54%)
- Yellow (40%)
- Blue (54%)



- Cyan (0%)
- Magenta (25%)
- Yellow (1%)
- Black (46%)



- Cyan (46%)
- Magenta (60%)
- Yellow (46%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 48, 24.136, 326.563 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, 24.136, 326.563 by changing the saturation by 10% instead.



 48, 24.136,  
326.563

 48, 24.136,  
326.563


 100, 24.136,  
326.563

 38, 24.136,  
326.563

 68, 24.136,  
326.563

 28, 24.136,  
326.563

 78, 24.136,  
326.563

 18, 24.136,  
326.563

 88, 24.136,  
326.563

 8, 24.136, 326.563

 98, 24.136,  
326.563

 0, 24.136, 326.563

 48, 24.136,

 48, 24.136,

326.563

45, 33.491,  
327.088

42, 42.453,  
327.587

39, 50.724,  
328.046

36, 57.956,  
328.453

34, 63.808,  
328.797

33, 68.008,  
329.071

32, 70.524,  
329.280

32, 71.483,  
329.368

326.563

52, 14.617,  
326.022

55, 5.110, 325.459

59, 4.273, 145.015

63, 13.456,  
144.466

67, 22.397,  
143.962

71, 31.076,  
143.484

75, 39.485,  
143.032

79, 47.629,  
142.606

■ 83, 55.514,  
142.206

# Harmonies

# Complementary

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



48, 24.136, 326.563



54, 24.121, 143.557

# Rectangle

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



48, 24.136, 326.563



48, 24.136, 16.563



48, 24.136, 146.563



48, 24.136, 196.563

# Sweetspot

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



48, 24.134, 326.563



69, 9.347, 325.620



45, 20.936, 293.634



35, 6.622, 325.696



87, 0.010, 296.813



38, 0.005, 296.813





# Same Dimension

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



48, 24.134, 326.563



59, 35.179, 326.841



47, 17.343, 346.808



27, 5.337, 325.676



31, 69.590, 329.364



0, 2.463, 325.205



# Inverse Universe

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



48, 24.134, 326.563



59, 35.179, 326.841



54, 16.777, 162.327



27, 5.337, 325.676



31, 69.590, 329.364

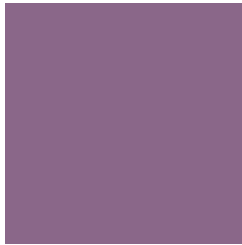


0, 2.463, 325.205



# Previews

## White Background



This preview shows how the CIELCh color 48, 24.136, 326.563 looks on a white background.

## Color Contrast Check

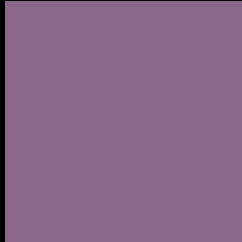
Large Text (above 18pt) WCAG AA ✓ Pass

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, 24.136, 326.563 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, 24.136, 326.563

## Background



This preview shows how black text looks on a background with the CIELCh color 48, 24.136, 326.563.



This preview shows how white text looks on a background with the CIELCh color 48, 24.136, 326.563.

# 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, 24.136, 326.563

### Protanopia

48, 18.341, 285.878

### Deuteranopia

48, 14.289, 298.088





**Tritanopia**  
48, 12.490, 358.992

# Trichromacy



**Original Color**  
48, 24.136, 326.563

**Protanomaly**  
48, 19.272, 302.567

**Deuteranomaly**  
48, 17.579, 311.201

**Tritanomaly**  
48, 16.369, 341.325

# Monochromacy



**Original Color**  
48, 24.136, 326.563

**Achromatopsia**  
49, 0.007, 296.813

**Achromatomaly**  
49, 8.565, 324.928

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 48, 24.136, 326.563 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(138, 103, 137)` looks like.

```
.text, #text, p{  
    color:rgb(138, 103, 137)  
}
```

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(138, 103, 137) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(138, 103, 137) }
```

## Border

The CSS property to change the border of an element to CIELCh 48, 24.136, 326.563 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(138, 103, 137) }
```

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

```
.border{ border-color:rgb(138, 103, 137) }
```

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

Here you see how a box with a 4 pixel `rgb(138, 103, 137)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(138, 103, 137); -webkit-box-  
shadow:4px 4px 4px 4px rgb(138, 103, 137);  
box-shadow:4px 4px 4px 4px rgb(138, 103,  
137) }
```

# Background

The CSS property to change the background color of an element to CIELCh 48, 24.136, 326.563 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(138, 103, 137) }
```

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

```
.background{ background-color: rgb(138,  
103, 137) }
```

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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