

# Converting Colors

CIELCh(48, 23.698, 314.938)

Have a look what the booklet for  
CIELCh(48, 23.698, 314.938)  
contains.

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**Color**

**CIELCh(48, 23.713, 315.167)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	81698E
RGB	129, 105, 142
RGB Percent	51%, 41%, 56%
CMY	0.4932, 0.5873, 0.4422
CMYK	0.09, 0.26, 0.00, 0.44
HSL	279°, 15%, 49%
HSV	279°, 26%, 56%
XYZ	19.0634, 16.7945, 27.9211
YIQ	116.3940, 2.4270, 16.5950

# Conversions

## Conversions Part 2

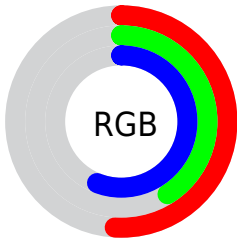
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	129, 105, 142
Decimal	8481166
CIE <sub>Lab</sub>	48.00, 16.82, -16.72
CIE <sub>LCh</sub>	48, 23.713, 315.167
Yxy	16.7945, 0.2989, 0.2633
Android (android.graphics.Color)	4286671246 (0xFF81698E)
YUV	116.3940, 12.6238, 11.0555
Hunter-Lab	40.9810, 11.3172, -11.7086

# Details

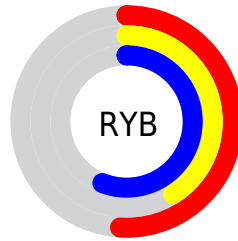
The CIELCh color  $48, 23.713, 315.167$  is a dark color, and the websafe version is hex  $666699$ . A complement of this color would be  $56, 23.175, 132.941$ , and the grayscale version is  $49, 0.007, 296.813$ .

A 20% lighter version of the original color is  $68, 24.055, 314.988$ , and  $28, 23.555, 314.571$  is the 20% darker color. If you saturate the color by 10%, you get  $44, 33.038, 315.599$ , and if you desaturate by 10%, it is  $52, 14.462, 314.733$ .

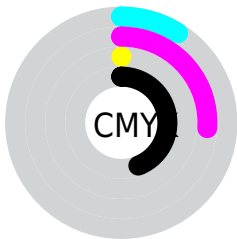
# Distribution



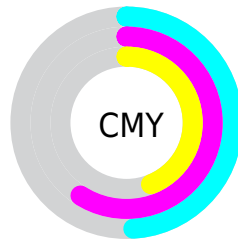
- Red (51%)
- Green (41%)
- Blue (56%)



- Red (51%)
- Yellow (41%)
- Blue (56%)



- Cyan (9%)
- Magenta (26%)
- Yellow (0%)
- Black (44%)




- Cyan (49%)
- Magenta (59%)
- Yellow (44%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 48, 23.713, 315.167 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, 23.713, 315.167 by changing the saturation by 10% instead.





 48, 23.713,  
315.167


 48, 23.713,  
315.167


 100, 23.713,  
315.167


 38, 23.713,  
315.167

 68, 23.713,  
315.167


 28, 23.713,  
315.167


 78, 23.713,  
315.167

 18, 23.713,  
315.167

 88, 23.713,  
315.167

 8, 23.713, 315.167

 98, 23.713,  
315.167

 0, 23.713, 315.167

 48, 23.713,

 48, 23.713,

315.167

44, 33.038,  
315.599

40, 42.299,  
316.010

36, 51.272,  
316.366

33, 59.635,  
316.621

30, 66.957,  
316.717

27, 72.752,  
316.581

25, 76.730,  
316.172

24, 78.195,  
316.010

315.167

52, 14.462,  
314.733

57, 5.376, 314.303

61, 3.498, 133.972


65, 12.136,  
133.583

69, 20.529,  
133.247

74, 28.678,  
132.945

78, 36.589,  
132.673

82, 44.270,  
132.431

 87, 51.733,  
132.216

# Harmonies

# Complementary

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



48, 23.713, 315.167



56, 23.175, 132.941

# Rectangle

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



48, 23.713, 315.167



48, 23.713, 5.167



48, 23.713, 135.167



48, 23.713, 185.167

# Sweetspot

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



48, 23.711, 315.167



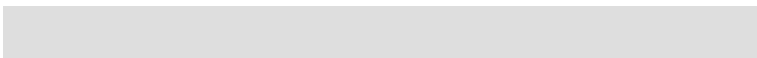
71, 8.919, 314.397



50, 14.420, 272.181



37, 6.399, 314.456



88, 0.010, 296.813



40, 0.006, 296.813





# Same Dimension

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



48, 23.711, 315.167



59, 35.330, 315.412



49, 23.626, 329.811



28, 5.076, 314.440



23, 75.321, 316.058



0, 3.395, 314.084



# Inverse Universe

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



49, 16.980, 355.111



60, 25.355, 355.825



56, 23.576, 146.528



28, 3.602, 353.272



28, 53.306, 14.786

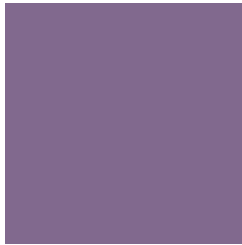


0, 2.395, 352.499



# Previews

## White Background



This preview shows how the CIELCh color 48, 23.713, 315.167 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 CIELCh color 48, 23.713, 315.167 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, 23.713, 315.167**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 48, 23.713, 315.167.



This preview shows how white text looks on a background with the CIELCh color 48, 23.713, 315.167.

# 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, 23.713, 315.167

### Protanopia

48, 20.733, 285.134

### Deuteranopia

48, 17.110, 291.212





**Tritanopia**  
48, 8.051, 344.647

# Trichromacy



**Original Color**  
48, 23.713, 315.167

**Protanomaly**  
48, 21.350, 296.811

**Deuteranomaly**  
48, 18.602, 301.700

**Tritanomaly**  
48, 13.537, 325.214

# Monochromacy



**Original Color**  
48, 23.713, 315.167

**Achromatopsia**  
49, 0.007, 296.813

**Achromatomaly**  
49, 8.315, 313.394

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 48, 23.713, 315.167 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(129, 105, 142)` looks like.

```
.text, #text, p{  
    color:rgb(129, 105, 142)  
}
```

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(129, 105, 142) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(129, 105, 142) }
```

## Border

The CSS property to change the border of an element to CIELCh 48, 23.713, 315.167 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(129, 105, 142) }
```

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

```
.border{ border-color:rgb(129, 105, 142) }
```

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

Here you see how a box with a 4 pixel `rgb(129, 105, 142)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(129, 105, 142); -webkit-box-  
shadow:4px 4px 4px 4px rgb(129, 105, 142);  
box-shadow:4px 4px 4px 4px rgb(129, 105,  
142) }
```

# Background

The CSS property to change the background color of an element to CIELCh 48, 23.713, 315.167 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(129, 105, 142) }
```

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

```
.background{ background-color: rgb(129,  
105, 142) }
```

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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