

# Converting Colors

CIELCh(48, 22.388, 324.802)

Have a look what the booklet for  
CIELCh(48, 22.388, 324.802)  
contains.

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**Color**

**CIELCh(48, 22.358, 324.794)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	876888
RGB	135, 104, 136
RGB Percent	53%, 41%, 53%
CMY	0.4710, 0.5926, 0.4671
CMYK	0.01, 0.24, 0.00, 0.47
HSL	298°, 13%, 47%
HSV	298°, 24%, 53%
XYZ	19.3485, 16.7945, 25.4723
YIQ	116.9170, 8.2040, 16.5240

# Conversions

## Conversions Part 2

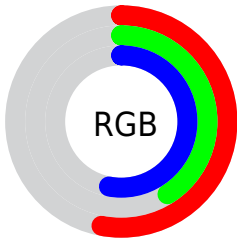
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	135, 104, 136
Decimal	8874120
CIE <sub>Lab</sub>	48.00, 18.27, -12.89
CIE <sub>LCh</sub>	48, 22.358, 324.794
Yxy	16.7945, 0.3140, 0.2726
Android (android.graphics.Color)	4287064200 (0xFF876888)
YUV	116.9170, 9.4079, 15.8588
Hunter-Lab	40.9810, 12.5591, -8.1657

# Details

The CIELCh color  $48, 22.358, 324.794$  is a dark color, and the websafe version is hex  $996699$ . A complement of this color would be  $54, 22.316, 142.181$ , and the grayscale version is  $49, 0.007, 296.813$ .

A 20% lighter version of the original color is  $68, 22.547, 325.408$ , and  $28, 21.923, 325.120$  is the 20% darker color. If you saturate the color by 10%, you get  $45, 31.783, 325.288$ , and if you desaturate by 10%, it is  $52, 12.824, 324.281$ .

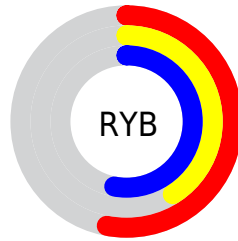
# Distribution



Red (53%)

Green (41%)

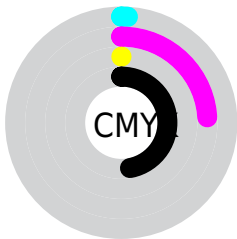
Blue (53%)



Red (53%)

Yellow (41%)

Blue (53%)

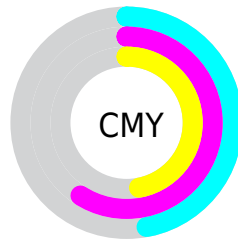


Cyan (1%)

Magenta (24%)

Yellow (0%)

Black (47%)



Cyan (47%)

Magenta (59%)

Yellow (47%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 48, 22.358, 324.794 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, 22.358, 324.794 by changing the saturation by 10% instead.



 48, 22.358,  
324.794


 48, 22.358,  
324.794

 100, 22.358,  
324.794

 38, 22.358,  
324.794

 68, 22.358,  
324.794


 28, 22.358,  
324.794

 78, 22.358,  
324.794

 18, 22.358,  
324.794

 88, 22.358,  
324.794

 8, 22.358, 324.794

 98, 22.358,  
324.794

 0, 22.358, 324.794

 48, 22.358,

 48, 22.358,

324.794

45, 31.783,  
325.288

41, 40.892,  
325.752

39, 49.404,  
326.168

36, 56.986,  
326.517

34, 63.286,  
326.784

32, 68.005,  
326.952

31, 70.996,  
327.015

31, 72.492,  
327.031

324.794

52, 12.824,  
324.281

55, 3.337, 323.731

59, 6.002, 143.317


63, 15.131,  
142.811

67, 24.014,  
142.340

71, 32.634,  
141.893

75, 40.987,  
141.473

79, 49.078,  
141.080

 83, 56.914,  
140.712

# Harmonies

# Complementary

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



48, 22.358, 324.794



54, 22.316, 142.181

# Rectangle

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



48, 22.358, 324.794



48, 22.358, 14.794



48, 22.358, 144.794



48, 22.358, 194.794

# Sweetspot

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



48, 22.356, 324.794



69, 8.155, 323.942



45, 18.448, 291.506



36, 5.342, 323.968



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, 22.356, 324.794



59, 32.821, 325.047



48, 16.386, 343.844



27, 5.388, 324.051



30, 71.217, 327.034



0, 2.486, 323.604



# Inverse Universe

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



47, 13.683, 18.666



58, 20.450, 19.230



54, 15.997, 159.926



27, 3.149, 17.347



27, 62.158, 37.418

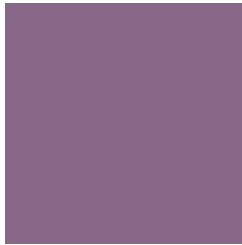


0, 1.416, 16.802



# Previews

## White Background



This preview shows how the CIELCh color 48, 22.358, 324.794 looks on a white background.

## Color Contrast Check

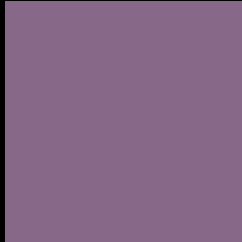
Large Text (above 18pt) WCAG AA ✓ Pass

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, 22.358, 324.794 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

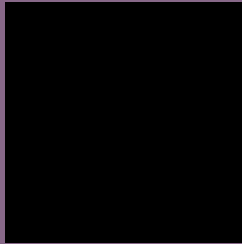
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 48, 22.358, 324.794**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 48, 22.358, 324.794.



This preview shows how white text looks on a background with the CIELCh color 48, 22.358, 324.794.

# 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, 22.358, 324.794

### Protanopia

48, 17.178, 285.217

### Deuteranopia

48, 13.704, 298.295





**Tritanopia**  
48, 10.937, 355.403

# Trichromacy



**Original Color**  
48, 22.358, 324.794

**Protanomaly**  
48, 17.965, 300.783

**Deuteranomaly**  
48, 16.906, 310.594

**Tritanomaly**  
48, 14.087, 339.357

# Monochromacy



**Original Color**  
48, 22.358, 324.794

**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, 22.358, 324.794 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(135, 104, 136)` looks like.

```
.text, #text, p{  
    color:rgb(135, 104, 136)  
}
```

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(135, 104, 136) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(135, 104, 136) }
```

## Border

The CSS property to change the border of an element to CIELCh 48, 22.358, 324.794 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(135, 104, 136) }
```

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

```
.border{ border-color:rgb(135, 104, 136) }
```

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

Here you see how a box with a 4 pixel `rgb(135, 104, 136)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(135, 104, 136); -webkit-box-  
shadow:4px 4px 4px 4px rgb(135, 104, 136);  
box-shadow:4px 4px 4px 4px rgb(135, 104,  
136) }
```

# Background

The CSS property to change the background color of an element to CIELCh 48, 22.358, 324.794 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(135, 104, 136) }
```

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

```
.background{ background-color: rgb(135,  
104, 136) }
```

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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