

# Converting Colors

CIELCh(48, 30.629, 303.777)

Have a look what the booklet for  
CIELCh(48, 30.629, 303.777)  
contains.

<b>CIELCh(48, 30.674, 303.793)</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(48, 30.674, 303.793)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	796A9D
RGB	121, 106, 157
RGB Percent	47%, 42%, 62%
CMY	0.5256, 0.5845, 0.3845
CMYK	0.23, 0.32, 0.00, 0.38
HSL	258°, 21%, 52%
HSV	258°, 32%, 62%
XYZ	19.1112, 16.7945, 34.1130
YIQ	116.2990, -7.4310, 19.0410

# Conversions

## Conversions Part 2

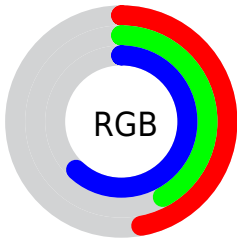
<b>Format</b>	<b>Color</b>
R <sub>YB</sub>	121, 106, 157
Decimal	7957149
CIE Lab	48.00, 17.06, -25.49
CIE LCh	48, 30.674, 303.793
Yxy	16.7945, 0.2729, 0.2399
Android (android.graphics.Color)	4286147229 (0xFF796A9D)
YUV	116.2990, 20.0656, 4.1228
Hunter-Lab	40.9810, 11.5253, -20.6668

# Details

The CIELCh color **48, 30.674, 303.793** is a dark color, and the websafe version is hex **666699**. A complement of this color would be **62, 28.747, 119.718**, and the grayscale version is **49, 0.007, 296.813**.

A 20% lighter version of the original color is **68, 31.022, 303.833**, and **28, 30.141, 303.575** is the 20% darker color. If you saturate the color by 10%, you get **43, 40.748, 304.647**, and if you desaturate by 10%, it is **53, 20.876, 303.017**.

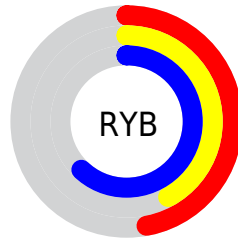
# Distribution



Red (47%)

Green (42%)

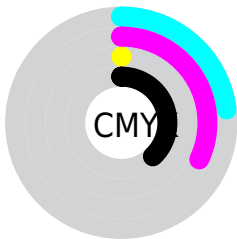
Blue (62%)



Red (47%)

Yellow (42%)

Blue (62%)

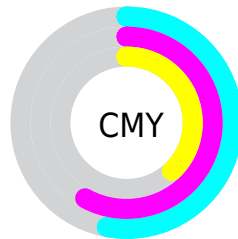


Cyan (23%)

Magenta (32%)

Yellow (0%)

Black (38%)



Cyan (53%)

Magenta (58%)


Yellow (38%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 48, 30.674, 303.793 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, 30.674, 303.793 by changing the saturation by 10% instead.





 48, 30.674,  
303.793


 48, 30.674,  
303.793


 100, 30.674,  
303.793


 38, 30.674,  
303.793

 68, 30.674,  
303.793


 28, 30.674,  
303.793

 78, 30.674,  
303.793

 18, 30.674,  
303.793

 88, 30.674,  
303.793

 8, 30.674, 303.793

 98, 30.674,  
303.793

 0, 30.674, 303.793

 48, 30.674,

 48, 30.674,

303.793

43, 40.748,  
304.647

38, 51.004,  
305.559

33, 61.231,  
306.484

29, 71.029,  
307.341

25, 79.725,  
307.996

22, 86.396,  
308.279

20, 90.320,  
308.363

303.793

53, 20.876,  
303.017

58, 11.395,  
302.324

63, 2.238, 301.702

69, 6.602, 121.193

74, 15.137,  
120.728

79, 23.386,  
120.327

84, 31.363,  
119.982

89, 39.087,  
119.684

■ 94, 46.572,  
119.428

# Harmonies

# Complementary

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



48, 30.674, 303.793



62, 28.747, 119.718

# Rectangle

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



48, 30.674, 303.793



48, 30.674, 353.793



48, 30.674, 123.793



48, 30.674, 173.793

# Sweetspot

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



48, 30.673, 303.793



76, 11.251, 302.177



57, 14.813, 232.462



39, 7.675, 302.260



91, 0.011, 296.813



43, 0.006, 296.813





# Same Dimension

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



48, 30.673, 303.793



57, 46.115, 304.406



50, 33.145, 319.702



31, 5.161, 302.117



18, 84.204, 308.438



1, 6.640, 301.006



# Inverse Universe

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



51, 28.578, 336.346



62, 42.282, 336.932



61, 32.626, 136.647



31, 4.968, 334.628



31, 60.404, 344.018



1, 6.289, 335.502



# Previews

## White Background



This preview shows how the CIELCh color 48, 30.674, 303.793 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, 30.674, 303.793 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

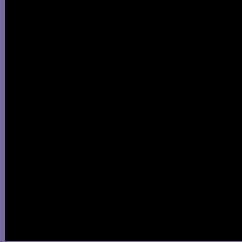
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 48, 30.674, 303.793

## Background



This preview shows how black text looks on a background with the CIELCh color 48, 30.674, 303.793.



This preview shows how white text looks on a background with the CIELCh color 48, 30.674, 303.793.

# 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, 30.674, 303.793


### Protanopia

48, 29.644, 285.236

### Deuteranopia

48, 26.081, 285.468





**Tritanopia**  
48, 5.382, 299.319

# Trichromacy



**Original Color**  
48, 30.674, 303.793

**Protanomaly**  
48, 29.498, 291.416

**Deuteranomaly**  
48, 27.149, 292.273

**Tritanomaly**  
48, 15.062, 302.213

# Monochromacy



**Original Color**  
48, 30.674, 303.793

**Achromatopsia**  
49, 0.007, 296.813

**Achromatomaly**  
48, 11.481, 303.222

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 48, 30.674, 303.793 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(121, 106, 157)` looks like.

```
.text, #text, p{  
    color:rgb(121, 106, 157)  
}
```

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(121, 106, 157) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(121, 106, 157) }
```

## Border

The CSS property to change the border of an element to CIELCh 48, 30.674, 303.793 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(121, 106, 157) }
```

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

```
.border{ border-color:rgb(121, 106, 157) }
```

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

Here you see how a box with a 4 pixel `rgb(121, 106, 157)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(121, 106, 157); -webkit-box-shadow:4px 4px 4px 4px rgb(121, 106, 157); box-shadow:4px 4px 4px 4px rgb(121, 106, 157) }
```

# Background

The CSS property to change the background color of an element to CIELCh 48, 30.674, 303.793 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(121, 106, 157) }
```

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

```
.background{ background-color: rgb(121,  
106, 157) }
```

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