

# Converting Colors

CIELCh(48, 13.099, 292.535)

Have a look what the booklet for  
CIELCh(48, 13.099, 292.535)  
contains.

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# Color

**CIELCh(48, 12.992, 291.904)**

# Conversions

## Conversions Part 1

Format	Color
Hex	707086
RGB	112, 112, 134
RGB Percent	44%, 44%, 53%
CMY	0.5603, 0.5603, 0.4740
CMYK	0.16, 0.16, 0.00, 0.47
HSL	240°, 9%, 48%
HSV	240°, 16%, 53%
XYZ	16.8189, 16.7945, 24.9576
YIQ	114.5080, -7.0620, 6.8420

# Conversions

## Conversions Part 2

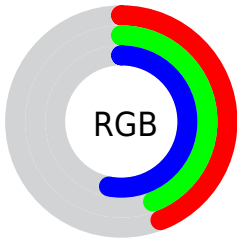
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	112, 112, 134
Decimal	7368838
CIE Lab	48.00, 4.85, -12.05
CIE LCh	48, 12.992, 291.904
Yxy	16.7945, 0.2872, 0.2867
Android (android.graphics.Color)	4285558918 (0xFF707086)
YUV	114.5080, 9.6096, -2.1995
Hunter-Lab	40.9810, 1.5406, -7.4211

# Details

The CIELCh color  $48, 12.992, 291.904$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $55, 12.530, 108.648$ , and the grayscale version is  $48, 0.006, 296.813$ .

A 20% lighter version of the original color is  $68, 12.683, 291.468$ , and  $28, 12.983, 292.670$  is the 20% darker color. If you saturate the color by 10%, you get  $43, 21.334, 293.193$ , and if you desaturate by 10%, it is  $53, 4.977, 290.805$ .

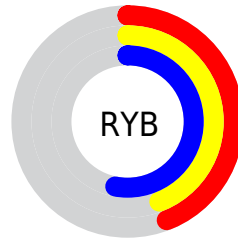
# Distribution



Red (44%)

Green (44%)

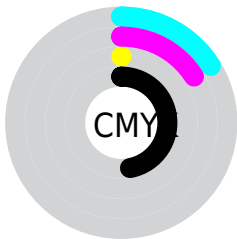
Blue (53%)



Red (44%)

Yellow (44%)

Blue (53%)

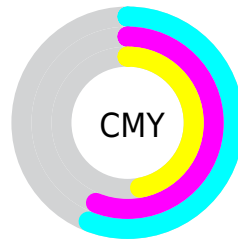


Cyan (16%)

Magenta (16%)

Yellow (0%)

Black (47%)



Cyan (56%)

Magenta (56%)


Yellow (47%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 48, 12.992, 291.904 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, 12.992, 291.904 by changing the saturation by 10% instead.





 48, 12.992,  
291.904


 48, 12.992,  
291.904


 100, 12.992,  
291.904


 38, 12.992,  
291.904

 68, 12.992,  
291.904

 28, 12.992,  
291.904

 78, 12.992,  
291.904

 18, 12.992,  
291.904


 88, 12.992,  
291.904

 8, 12.992, 291.904

 98, 12.992,  
291.904

 0, 12.992, 291.904

 48, 12.992,

 48, 12.992,

291.904

43, 21.334,  
293.193

38, 30.027,  
294.703

33, 39.076,  
296.445

29, 48.436,  
298.409

24, 57.935,  
300.527

20, 67.123,  
302.641

17, 75.106,  
304.486

15, 80.953,  
305.819

291.904

53, 4.977, 290.805

58, 2.731, 109.839

63, 10.157,  
109.049

67, 17.321,  
108.364

72, 24.240,  
107.774

77, 30.932,  
107.263

81, 37.410,  
106.820

86, 43.688,  
106.434

■ 14, 83.032,  
306.287

■ 90, 49.778,  
106.096

# Harmonies

# Complementary

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



48, 12.992, 291.904



55, 12.530, 108.648

# Rectangle

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



48, 12.992, 291.904



48, 12.992, 341.904



48, 12.992, 111.904



48, 12.992, 161.904

# Sweetspot

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



48, 12.991, 291.902



68, 4.783, 290.678



54, 8.331, 197.148



35, 3.252, 290.736



86, 0.010, 296.813



37, 0.005, 296.813





# Same Dimension

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



48, 12.991, 291.902



59, 19.692, 292.398



49, 13.637, 309.221



25, 4.363, 291.084



13, 81.197, 306.287



0, 1.028, 290.177



# Inverse Universe

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



49, 9.208, 20.453



61, 14.059, 20.804



55, 13.335, 127.768



26, 3.050, 19.878



26, 62.118, 38.507



0, 0.707, 19.403



# Previews

## White Background



This preview shows how the CIELCh color 48, 12.992, 291.904 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, 12.992, 291.904 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

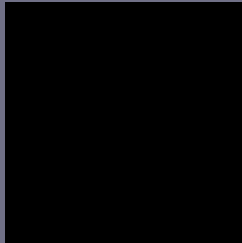
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

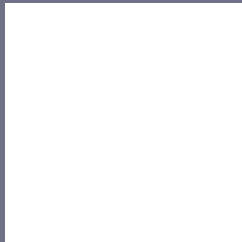
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 48, 12.992, 291.904

## Background



This preview shows how black text looks on a background with the CIELCh color 48, 12.992, 291.904.



This preview shows how white text looks on a background with the CIELCh color 48, 12.992, 291.904.

# 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, 12.992, 291.904

### Protanopia

48, 13.028, 285.357

### Deuteranopia

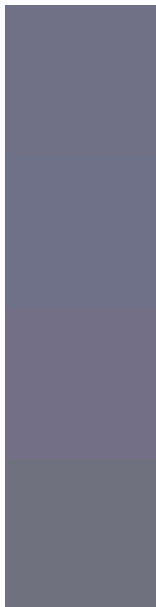
48, 13.704, 298.295





**Tritanopia**  
48, 5.501, 274.457

# Trichromacy



**Original Color**  
48, 12.992, 291.904

**Protanomaly**  
48, 12.999, 286.973

**Deuteranomaly**  
48, 13.664, 296.720

**Tritanomaly**  
48, 8.283, 285.964

# Monochromacy



**Original Color**  
48, 12.992, 291.904

**Achromatopsia**  
48, 0.006, 296.813

**Achromatomaly**  
48, 4.716, 290.815

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 48, 12.992, 291.904 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(112, 112, 134)` looks like.

```
.text, #text, p{  
    color:rgb(112, 112, 134)  
}
```

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(112, 112, 134) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(112, 112, 134) }
```

## Border

The CSS property to change the border of an element to CIELCh 48, 12.992, 291.904 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(112, 112, 134) }
```

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

```
.border{ border-color:rgb(112, 112, 134) }
```

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

Here you see how a box with a 4 pixel `rgb(112, 112, 134)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(112, 112, 134); -webkit-box-  
shadow:4px 4px 4px 4px rgb(112, 112, 134);  
box-shadow:4px 4px 4px 4px rgb(112, 112,  
134) }
```

# Background

The CSS property to change the background color of an element to CIELCh 48, 12.992, 291.904 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(112, 112, 134) }
```

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

```
.background{ background-color: rgb(112,  
112, 134) }
```

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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