

# Converting Colors

CIELCh(47, 22.502, 293.157)

Have a look what the booklet for  
CIELCh(47, 22.502, 293.157)  
contains.

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# Color

**CIELCh(47, 22.532, 293.170)**

# Conversions

## Conversions Part 1

Format	Color
Hex	6C6C92
RGB	108, 108, 146
RGB Percent	42%, 42%, 57%
CMY	0.5761, 0.5761, 0.4270
CMYK	0.26, 0.26, 0.00, 0.43
HSL	240°, 15%, 50%
HSV	240°, 26%, 57%
XYZ	16.7665, 16.0195, 29.4457
YIQ	112.3320, -12.1980, 11.8180

# Conversions

## Conversions Part 2

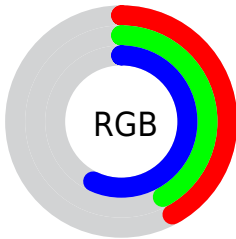
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	108, 108, 146
Decimal	7105682
CIE Lab	47.00, 8.87, -20.71
CIE LCh	47, 22.532, 293.170
Yxy	16.0195, 0.2694, 0.2574
Android (android.graphics.Color)	4285295762 (0xFF6C6C92)
YUV	112.3320, 16.5983, -3.7992
Hunter-Lab	40.0243, 4.7325, -15.6023

# Details

The CIELCh color  $[47, 22.532, 293.170]$  is a dark color, and the websafe version is hex  $666699$ . A complement of this color would be  $[60, 21.221, 107.734]$ , and the grayscale version is  $[47, 0.006, 296.813]$ .

A 20% lighter version of the original color is  $[67, 22.711, 293.351]$ , and  $[27, 22.144, 292.559]$  is the 20% darker color. If you saturate the color by 10%, you get  $[42, 31.848, 294.687]$ , and if you desaturate by 10%, it is  $[52, 13.592, 291.872]$ .

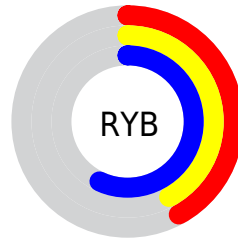
# Distribution



Red (42%)

Green (42%)

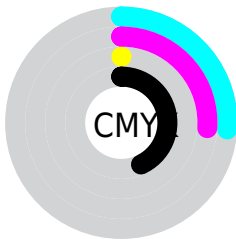
Blue (57%)



Red (42%)

Yellow (42%)

Blue (57%)

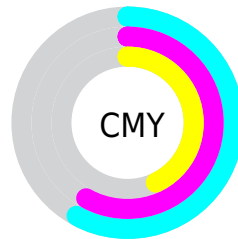


Cyan (26%)

Magenta (26%)

Yellow (0%)

Black (43%)



Cyan (58%)

Magenta (58%)


Yellow (43%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 47, 22.532, 293.170 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 47, 22.532, 293.170 by changing the saturation by 10% instead.




 47, 22.532,  
293.170


 47, 22.532,  
293.170


 100, 22.532,  
293.170


 37, 22.532,  
293.170

 67, 22.532,  
293.170


 27, 22.532,  
293.170

 77, 22.532,  
293.170

 17, 22.532,  
293.170

 87, 22.532,  
293.170

 7, 22.532, 293.170

 97, 22.532,  
293.170

 0, 22.532, 293.170

 47, 22.532,

 47, 22.532,

293.170

42, 31.848,  
294.687

37, 41.551,  
296.441

32, 51.590,  
298.420

27, 61.776,  
300.555

22, 71.617,  
302.683

19, 80.132,  
304.531

17, 86.141,  
305.818

16, 88.360,  
306.287

293.170

52, 13.592,  
291.872

57, 5.008, 290.773

63, 3.247, 109.807


68, 11.198,  
109.015

73, 18.867,  
108.330

78, 26.272,  
107.741

83, 33.432,  
107.231

88, 40.363,  
106.790

 93, 47.078,  
106.405

# Harmonies

# Complementary

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



47, 22.532, 293.170



60, 21.221, 107.734

# Rectangle

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



47, 22.532, 293.170



47, 22.532, 343.170



47, 22.532, 113.170



47, 22.532, 163.170

# Sweetspot

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



47, 22.531, 293.169



71, 8.242, 290.994



58, 13.708, 198.140



36, 5.854, 291.140



88, 0.010, 296.813



40, 0.006, 296.813





# Same Dimension

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



47, 22.531, 293.169



57, 33.469, 293.993



49, 23.558, 310.277



28, 4.780, 291.105



15, 84.629, 306.287



0, 4.113, 290.180



# Inverse Universe

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



51, 26.436, 325.815



62, 38.744, 326.105



58, 22.750, 127.903



29, 5.775, 324.912



32, 73.085, 328.234



1, 5.023, 324.440



# Previews

## White Background



This preview shows how the CIE LCh color 47, 22.532, 293.170 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 47, 22.532, 293.170 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA × Fail

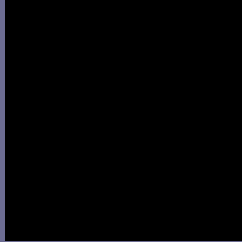
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 47, 22.532, 293.170**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 47, 22.532, 293.170.



This preview shows how white text looks on a background with the CIELCh color 47, 22.532, 293.170.

# 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

47, 22.532, 293.170


### Protanopia

47, 22.609, 285.290

### Deuteranopia

47, 21.350, 287.363





**Tritanopia**  
47, 6.488, 254.538

# Trichromacy



**Original Color**  
47, 22.532, 293.170

**Protanomaly**  
47, 22.533, 288.742

**Deuteranomaly**  
47, 21.929, 289.429

**Tritanomaly**  
47, 11.996, 281.026

# Monochromacy



**Original Color**  
47, 22.532, 293.170

**Achromatopsia**  
47, 0.006, 296.813

**Achromatomaly**  
47, 7.696, 291.222

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 47, 22.532, 293.170 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(108, 108, 146)` looks like.

```
.text, #text, p{  
    color:rgb(108, 108, 146)  
}
```

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(108, 108, 146) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(108, 108, 146) }
```

## Border

The CSS property to change the border of an element to CIELCh 47, 22.532, 293.170 is called "border". The border property can be set on classes, ids or directly on the HTML element.

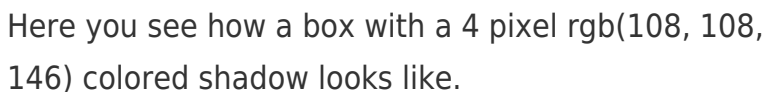
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(108, 108, 146) }
```

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

```
.border{ border-color:rgb(108, 108, 146) }
```

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



Here you see how a box with a 4 pixel `rgb(108, 108, 146)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(108, 108, 146); -webkit-box-  
shadow:4px 4px 4px 4px rgb(108, 108, 146);  
box-shadow:4px 4px 4px 4px rgb(108, 108,  
146) }
```

# Background

The CSS property to change the background color of an element to CIELCh 47, 22.532, 293.170 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(108, 108, 146) }
```

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

```
.background{ background-color: rgb(108,  
108, 146) }
```

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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