

# Converting Colors

CIELCh(50, 21.965, 295.026)

Have a look what the booklet for  
CIELCh(50, 21.965, 295.026)  
contains.

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# Color

**CIELCh(50, 22.310, 294.823)**

# Conversions

## Conversions Part 1

Format	Color
Hex	757399
RGB	117, 115, 153
RGB Percent	46%, 45%, 60%
CMY	0.5403, 0.5481, 0.3991
CMYK	0.23, 0.25, 0.00, 0.40
HSL	243°, 16%, 53%
HSV	243°, 25%, 60%
XYZ	19.2930, 18.4187, 32.7787
YIQ	119.9300, -11.0060, 12.2420

# Conversions

## Conversions Part 2

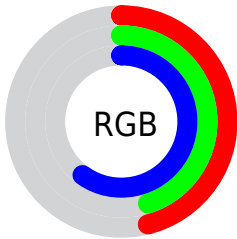
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	117, 115, 153
Decimal	7697305
CIE <sub>Lab</sub>	50.00, 9.37, -20.25
CIE <sub>LCh</sub>	50, 22.310, 294.823
Yxy	18.4187, 0.2737, 0.2613
Android (android.graphics.Color)	4285887385 (0xFF757399)
YUV	119.9300, 16.3035, -2.5696
Hunter-Lab	42.9170, 5.1388, -15.2420

# Details

The CIELCh color `50, 22.310, 294.823` is a dark color, and the websafe version is hex `666699`. A complement of this color would be `62, 21.075, 110.108`, and the grayscale version is `50, 0.007, 296.813`.

A 20% lighter version of the original color is `70, 21.994, 295.011`, and `30, 22.463, 295.124` is the 20% darker color. If you saturate the color by 10%, you get `45, 31.951, 296.167`, and if you desaturate by 10%, it is `55, 13.052, 293.667`.

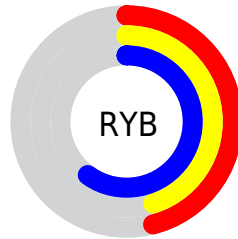
# Distribution



Red (46%)

Green (45%)

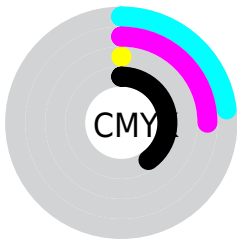
Blue (60%)



Red (46%)

Yellow (45%)

Blue (60%)

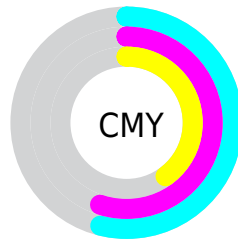


Cyan (23%)

Magenta (25%)

Yellow (0%)

Black (40%)



Cyan (54%)

Magenta (55%)


Yellow (40%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 50, 22.310, 294.823 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 50, 22.310, 294.823 by changing the saturation by 10% instead.




 50, 22.310,  
294.823


 50, 22.310,  
294.823

 100, 22.310,  
294.823


 40, 22.310,  
294.823


 70, 22.310,  
294.823

 30, 22.310,  
294.823


 80, 22.310,  
294.823


 20, 22.310,  
294.823

 90, 22.310,  
294.823

 10, 22.310,  
294.823

 0, 22.310, 294.823

 50, 22.310,  
294.823

 50, 22.310,  
294.823

45, 31.951,  
296.167

55, 13.052,  
293.667

39, 41.978,  
297.713

61, 4.159, 292.684

34, 52.339,  
299.449

66, 4.395, 111.821

29, 62.848,  
301.320

71, 12.633,  
111.103

25, 73.042,  
303.190

77, 20.577,  
110.484

21, 81.999,  
304.823

82, 28.249,  
109.952

18, 88.424,  
305.938

87, 35.666,  
109.492

17, 91.204,  
306.482

92, 42.845,  
109.093

97, 49.802,  
108.747



# Harmonies

# Complementary

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



50, 22.310, 294.823



62, 21.075, 110.108

# Rectangle

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



50, 22.310, 294.823



50, 22.310, 344.823



50, 22.310, 114.823



50, 22.310, 164.823

# Sweetspot

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



50, 22.309, 294.822



76, 7.522, 292.898



60, 12.969, 203.037



39, 4.880, 292.946



90, 0.011, 296.813



42, 0.006, 296.813





# Same Dimension

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



50, 22.309, 294.822



60, 33.767, 295.576



52, 23.536, 311.890



30, 4.923, 293.097



15, 85.462, 306.504



0, 5.235, 292.217



# Inverse Universe

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



53, 25.300, 327.240



65, 37.791, 327.557



61, 22.852, 129.708



30, 5.731, 326.366



32, 71.135, 330.394



1, 6.133, 326.066



# Previews

## White Background



This preview shows how the CIELCh color 50, 22.310, 294.823 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 50, 22.310, 294.823 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

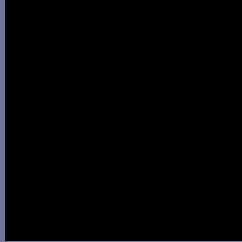
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

# CIELCh 50, 22.310, 294.823

## Background



This preview shows how black text looks on a background with the CIELCh color 50, 22.310, 294.823.



This preview shows how white text looks on a background with the CIELCh color 50, 22.310, 294.823.

# 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

50, 22.310, 294.823

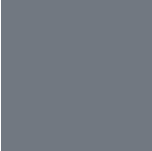
### Protanopia

50, 21.767, 284.720

### Deuteranopia

50, 21.101, 288.102





**Tritanopia**  
50, 5.856, 263.534

# Trichromacy



**Original Color**  
50, 22.310, 294.823

**Protanomaly**  
50, 21.681, 288.317

**Deuteranomaly**  
50, 21.675, 291.079

**Tritanomaly**  
50, 11.738, 286.217

# Monochromacy



**Original Color**  
50, 22.310, 294.823

**Achromatopsia**  
50, 0.007, 296.813

**Achromatomaly**  
50, 8.212, 293.922

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 50, 22.310, 294.823 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(117, 115, 153)` looks like.

```
.text, #text, p{  
    color:rgb(117, 115, 153)  
}
```

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(117, 115, 153) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(117, 115, 153) }
```

## Border

The CSS property to change the border of an element to CIELCh 50, 22.310, 294.823 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(117, 115, 153) }
```

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

```
.border{ border-color:rgb(117, 115, 153) }
```

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

Here you see how a box with a 4 pixel `rgb(117, 115, 153)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(117, 115, 153); -webkit-box-  
shadow:4px 4px 4px 4px rgb(117, 115, 153);  
box-shadow:4px 4px 4px 4px rgb(117, 115,  
153) }
```

# Background

The CSS property to change the background color of an element to CIELCh 50, 22.310, 294.823 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(117, 115, 153) }
```

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

```
.background{ background-color: rgb(117,  
115, 153) }
```

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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