

# Converting Colors

CIELCh(50, 21.760, 265.723)

Have a look what the booklet for  
CIELCh(50, 21.760, 265.723)  
contains.

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# Color

**CIELCh(50, 21.783, 265.780)**

# Conversions

## Conversions Part 1

Format	Color
Hex	5B799B
RGB	91, 121, 155
RGB Percent	36%, 47%, 61%
CMY	0.6413, 0.5237, 0.3902
CMYK	0.41, 0.22, 0.00, 0.39
HSL	212°, 26%, 48%
HSV	212°, 41%, 61%
XYZ	17.2121, 18.4187, 33.8729
YIQ	115.9060, -28.7940, 4.2140

# Conversions

## Conversions Part 2

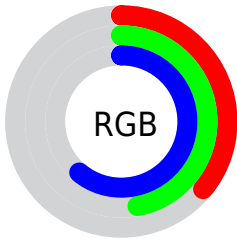
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	91, 111, 155
Decimal	5994907
CIE <sub>Lab</sub>	50.00, -1.60, -21.72
CIE <sub>LCh</sub>	50, 21.783, 265.780
Yxy	18.4187, 0.2476, 0.2650
Android (android.graphics.Color)	4284184987 (0xFF5B799B)
YUV	115.9060, 19.2733, -21.8426
Hunter-Lab	42.9170, -3.5161, -16.7537

# Details

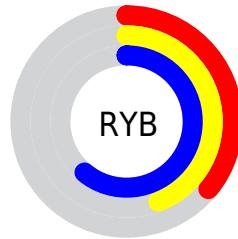
The CIELCh color  $50, 21.783, 265.780$  is a dark color, and the websafe version is hex  $336699$ . A complement of this color would be  $55, 23.882, 73.558$ , and the grayscale version is  $49, 0.007, 296.813$ .

A 20% lighter version of the original color is  $70, 22.023, 266.760$ , and  $30, 21.771, 265.501$  is the 20% darker color. If you saturate the color by 10%, you get  $47, 26.953, 268.324$ , and if you desaturate by 10%, it is  $53, 16.557, 263.620$ .

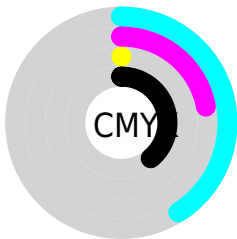
# Distribution



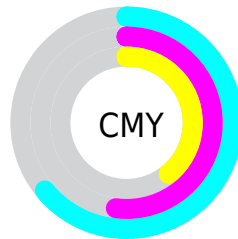
- Red (36%)
- Green (47%)
- Blue (61%)



- Red (36%)
- Yellow (44%)
- Blue (61%)



- Cyan (41%)
- Magenta (22%)
- Yellow (0%)
- Black (39%)




- Cyan (64%)
- Magenta (52%)
- Yellow (39%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 50, 21.783, 265.780 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, 21.783, 265.780 by changing the saturation by 10% instead.





 50, 21.783,  
265.780


 50, 21.783,  
265.780


 100, 21.783,  
265.780


 40, 21.783,  
265.780


 70, 21.783,  
265.780


 30, 21.783,  
265.780


 80, 21.783,  
265.780


 20, 21.783,  
265.780

 90, 21.783,  
265.780

 10, 21.783,  
265.780

 0, 21.783, 265.780

 50, 21.783,  
265.780

 50, 21.783,  
265.780

47, 26.953,  
268.324

53, 16.557,  
263.620

43, 32.081,  
271.298

57, 11.282,  
261.795

40, 37.197,  
274.723

60, 5.968, 260.262

37, 42.351,  
278.569

64, 0.631, 259.341

67, 4.714, 77.695

34, 47.607,  
282.740

71, 10.053, 76.749

32, 52.399,  
286.385

74, 15.373, 75.910

78, 20.663, 75.172

81, 25.915, 74.521

# Harmonies

# Complementary

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



50, 21.783, 265.780



55, 23.882, 73.558

# Rectangle

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



50, 21.783, 265.780



50, 21.783, 315.780



50, 21.783, 85.780



50, 21.783, 135.780

# Sweetspot

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



50, 21.782, 265.779



76, 7.916, 260.412



59, 29.552, 160.538



40, 5.291, 260.582



91, 0.011, 296.813



43, 0.006, 296.813



# Same Dimension

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



50, 21.782, 265.779



60, 31.892, 267.989



42, 38.743, 296.081



31, 2.982, 259.997



29, 48.151, 285.959



1, 3.252, 259.563





# Inverse Universe

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



47, 30.886, 349.564



56, 45.091, 350.817



63, 34.904, 107.075



30, 4.098, 346.105



29, 54.180, 3.896



1, 4.355, 345.823



# Previews

## White Background



This preview shows how the CIELCh color 50, 21.783, 265.780 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, 21.783, 265.780 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, 21.783, 265.780

## Background



This preview shows how black text looks on a background with the CIELCh color 50, 21.783, 265.780.



This preview shows how white text looks on a background with the CIELCh color 50, 21.783, 265.780.

# 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, 21.783, 265.780

### Protanopia

50, 20.575, 285.964

### Deuteranopia

50, 23.491, 286.462



**Tritanopia**  
50, 14.666, 221.829



# Trichromacy



**Original Color**  
50, 21.783, 265.780

**Protanomaly**  
50, 20.439, 277.151

**Deuteranomaly**  
50, 22.109, 278.738

**Tritanomaly**  
50, 15.884, 240.286

# Monochromacy



**Original Color**  
50, 21.783, 265.780

**Achromatopsia**  
49, 0.007, 296.813

**Achromatomaly**  
49, 8.079, 260.163

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 50, 21.783, 265.780 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(91, 121, 155)` looks like.

```
.text, #text, p{  
    color:rgb(91, 121, 155)  
}
```

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(91, 121, 155) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(91, 121, 155) }
```

## Border

The CSS property to change the border of an element to CIELCh 50, 21.783, 265.780 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(91, 121, 155) }
```

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

```
.border{ border-color:rgb(91, 121, 155) }
```

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

Here you see how a box with a 4 pixel rgb(91, 121, 155) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(91, 121, 155); -webkit-box-  
shadow:4px 4px 4px 4px rgb(91, 121, 155);  
box-shadow:4px 4px 4px 4px rgb(91, 121,  
155) }
```

# Background

The CSS property to change the background color of an element to CIELCh 50, 21.783, 265.780 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(91, 121, 155) }
```

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

```
.background{ background-color: rgb(91, 121,  
155) }
```

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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