

# Converting Colors

CIELCh(50, 12.773, 222.795)

Have a look what the booklet for  
CIELCh(50, 12.773, 222.795)  
contains.

<b>CIELCh(50, 12.781, 222.812)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	11
<b><i>Previews</i></b> .....	20
<b><i>Color Blindness Simulation</i></b> .....	23
<b><i>CSS Examples</i></b> .....	26

# Color

**CIELCh(50, 12.781, 222.812)**

# Conversions

## Conversions Part 1

Format	Color
Hex	5B7C85
RGB	91, 124, 133
RGB Percent	36%, 49%, 52%
CMY	0.6421, 0.5127, 0.4774
CMYK	0.32, 0.07, 0.00, 0.48
HSL	193°, 19%, 44%
HSV	193°, 32%, 52%
XYZ	15.8319, 18.4187, 25.0066
YIQ	115.1590, -22.5570, -4.1970

# Conversions

## Conversions Part 2

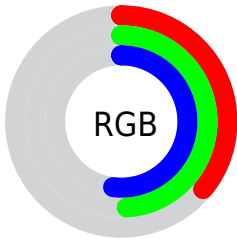
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	91, 109, 133
Decimal	5995653
CIE Lab	50.00, -9.38, -8.69
CIE LCh	50, 12.781, 222.812
Yxy	18.4187, 0.2672, 0.3108
Android (android.graphics.Color)	4284185733 (0xFF5B7C85)
YUV	115.1590, 8.7956, -21.1874
Hunter-Lab	42.9170, -9.2568, -4.5049

# Details

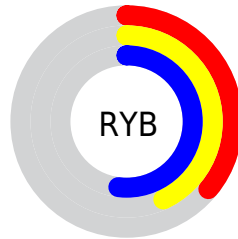
The CIELCh color **50, 12.781, 222.812** is a dark color, and the websafe version is hex **669999**. A complement of this color would be **46, 15.740, 40.668**, and the grayscale version is **49, 0.006, 296.813**.

A 20% lighter version of the original color is **70, 12.950, 221.024**, and **30, 12.742, 225.058** is the 20% darker color. If you saturate the color by 10%, you get **48, 16.200, 223.751**, and if you desaturate by 10%, it is **52, 9.013, 222.112**.

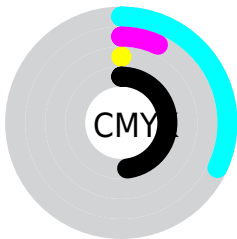
# Distribution



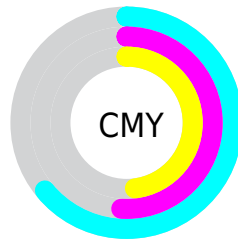
- Red (36%)
- Green (49%)
- Blue (52%)



- Red (36%)
- Yellow (43%)
- Blue (52%)



- Cyan (32%)
- Magenta (7%)
- Yellow (0%)
- Black (48%)




- Cyan (64%)
- Magenta (51%)
- Yellow (48%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 50, 12.781, 222.812 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, 12.781, 222.812 by changing the saturation by 10% instead.





 50, 12.781,  
222.812


 50, 12.781,  
222.812


 100, 12.781,  
222.812


 40, 12.781,  
222.812


 70, 12.781,  
222.812

 30, 12.781,  
222.812


 80, 12.781,  
222.812


 20, 12.781,  
222.812

 90, 12.781,  
222.812

 10, 12.781,  
222.812

 0, 12.781, 222.812

 50, 12.781,  
222.812

 50, 12.781,  
222.812

48, 16.200,  
223.751

52, 9.013, 222.112

47, 19.212,  
224.999

53, 4.958, 221.632

55, 0.671, 221.783

45, 21.764,  
226.619

57, 3.797, 40.836

44, 23.824,  
228.689

59, 8.402, 40.741

61, 13.107, 40.677

43, 25.388,  
231.288

63, 17.884, 40.660

42, 26.493,  
234.480

65, 22.706, 40.681

68, 27.556, 40.733

41, 27.263,  
237.436

# Harmonies

# Complementary

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



50, 12.781, 222.812



46, 15.740, 40.668

# Rectangle

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



50, 12.781, 222.812



50, 12.781, 272.812



50, 12.781, 42.812



50, 12.781, 92.812

# Sweetspot

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



50, 12.781, 222.808



69, 4.829, 221.556



52, 25.775, 148.210



35, 3.331, 221.595



86, 0.010, 296.813



37, 0.005, 296.813



# Same Dimension

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



50, 12.781, 222.808



63, 18.585, 223.472



44, 18.023, 278.323



27, 2.431, 221.553



40, 26.778, 237.330



0, 0.595, 221.160





# Inverse Universe

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



44, 25.632, 333.017



54, 38.147, 333.518



51, 17.925, 89.853



26, 4.542, 331.554



29, 59.690, 338.654



0, 1.081, 331.029



# Previews

## White Background



This preview shows how the CIELCh color 50, 12.781, 222.812 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, 12.781, 222.812 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

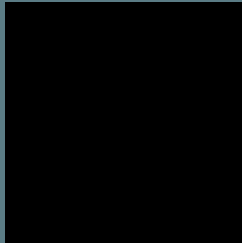
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

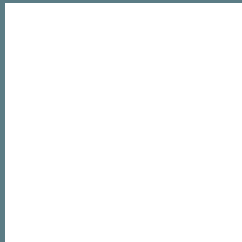
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 50, 12.781, 222.812**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 50, 12.781, 222.812.



This preview shows how white text looks on a background with the CIELCh color 50, 12.781, 222.812.

# 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, 12.781, 222.812

**Protanopia**  
50, 6.443, 291.020

**Deuteranopia**  
50, 11.411, 303.198



**Tritanopia**  
50, 12.969, 225.338



# Trichromacy



**Original Color**  
50, 12.781, 222.812

**Protanomaly**  
50, 7.770, 255.366

**Deuteranomaly**  
50, 9.208, 272.272

**Tritanomaly**  
50, 12.969, 225.338

# Monochromacy



**Original Color**  
50, 12.781, 222.812

**Achromatopsia**  
48, 0.006, 296.813

**Achromatomaly**  
49, 5.163, 226.177

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 50, 12.781, 222.812 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, 124, 133)` looks like.

```
.text, #text, p{  
    color:rgb(91, 124, 133)  
}
```

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, 124, 133) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(91, 124, 133) }
```

## Border

The CSS property to change the border of an element to CIELCh 50, 12.781, 222.812 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, 124, 133) }
```

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

```
.border{ border-color:rgb(91, 124, 133) }
```

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

Here you see how a box with a 4 pixel `rgb(91, 124, 133)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(91, 124, 133); -webkit-box-  
shadow:4px 4px 4px 4px rgb(91, 124, 133);  
box-shadow:4px 4px 4px 4px rgb(91, 124,  
133) }
```

# Background

The CSS property to change the background color of an element to CIELCh 50, 12.781, 222.812 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(91, 124, 133) }
```

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

```
.background{ background-color: rgb(91, 124,  
133) }
```

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