

# Converting Colors

CIELCh(50, 24.096, 276.400)

Have a look what the booklet for  
CIELCh(50, 24.096, 276.400)  
contains.

<b>CIELCh(50, 24.128, 276.469)</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, 24.128, 276.469)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	62779F
RGB	98, 119, 159
RGB Percent	38%, 47%, 62%
CMY	0.6142, 0.5318, 0.3749
CMYK	0.38, 0.25, 0.00, 0.37
HSL	219°, 24%, 51%
HSV	219°, 38%, 63%
XYZ	18.0130, 18.4187, 35.5885
YIQ	117.2810, -25.3560, 7.9880

# Conversions

## Conversions Part 2

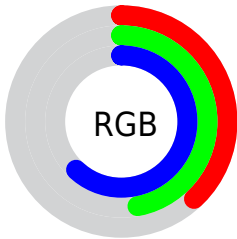
<b>Format</b>	<b>Color</b>
R <sub>Y</sub> B	98, 114, 159
Decimal	6453151
CIE Lab	50.00, 2.72, -23.97
CIE LCh	50, 24.128, 276.469
Yxy	18.4187, 0.2501, 0.2557
Android (android.graphics.Color)	4284643231 (0xFF62779F)
YUV	117.2810, 20.5675, -16.9094
Hunter-Lab	42.9170, -0.1849, -19.1239

# Details

The CIELCh color  $50, 24.128, 276.469$  is a dark color, and the websafe version is hex  $666699$ . A complement of this color would be  $59, 24.431, 85.355$ , and the grayscale version is  $49, 0.007, 296.813$ .

A 20% lighter version of the original color is  $70, 24.220, 276.865$ , and  $30, 23.795, 276.307$  is the 20% darker color. If you saturate the color by 10%, you get  $46, 30.665, 278.780$ , and if you desaturate by 10%, it is  $54, 17.696, 274.485$ .

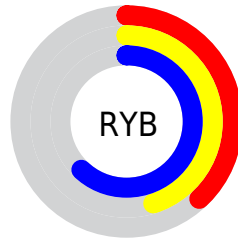
# Distribution



Red (38%)

Green (47%)

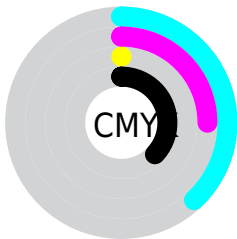
Blue (62%)



Red (38%)

Yellow (45%)

Blue (62%)

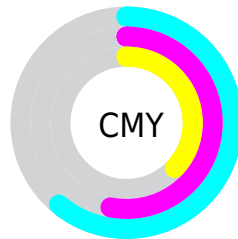


Cyan (38%)

Magenta (25%)

Yellow (0%)

Black (37%)



Cyan (61%)

Magenta (53%)

Yellow (37%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 50, 24.128, 276.469 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, 24.128, 276.469 by changing the saturation by 10% instead.





 50, 24.128,  
276.469


 50, 24.128,  
276.469


 100, 24.128,  
276.469


 40, 24.128,  
276.469


 70, 24.128,  
276.469

 30, 24.128,  
276.469

 80, 24.128,  
276.469

 20, 24.128,  
276.469

 90, 24.128,  
276.469

 10, 24.128,  
276.469

 0, 24.128, 276.469

 50, 24.128,  
276.469

 50, 24.128,  
276.469

46, 30.665,  
278.780

54, 17.696,  
274.485

42, 37.331,  
281.451

58, 11.359,  
272.790

38, 44.154,  
284.490

62, 5.111, 271.352

66, 1.048, 89.852

35, 51.161,  
287.858

70, 7.117, 88.934

31, 58.343,  
291.447

75, 13.093, 87.999

28, 65.614,  
295.007

79, 18.976, 87.171

83, 24.762, 86.439

27, 66.871,  
295.564

87, 30.452, 85.788

# Harmonies

# Complementary

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



50, 24.128, 276.469



59, 24.431, 85.355

# Rectangle

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



50, 24.128, 276.469



50, 24.128, 326.469



50, 24.128, 96.469



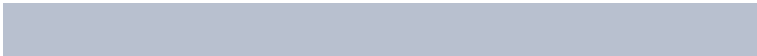
50, 24.128, 146.469

# Sweetspot

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



50, 24.127, 276.468



77, 8.404, 271.746



61, 25.284, 168.747



40, 5.696, 271.924



92, 0.011, 296.813



44, 0.006, 296.813



# Same Dimension

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



50, 24.127, 276.468



60, 36.043, 278.432



45, 36.644, 299.705



31, 3.470, 271.479



24, 61.085, 295.201



1, 4.601, 271.685





# Inverse Universe

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



49, 27.652, 357.302



59, 41.118, 358.707



64, 33.464, 113.267



31, 3.905, 353.767



30, 55.653, 15.774

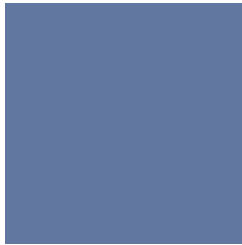


1, 4.977, 354.158



# Previews

## White Background



This preview shows how the CIELCh color 50, 24.128, 276.469 looks on a white background.

## Color Contrast Check

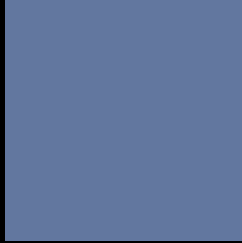
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

# Black Background



This preview shows how the CIE LCh color 50, 24.128, 276.469 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

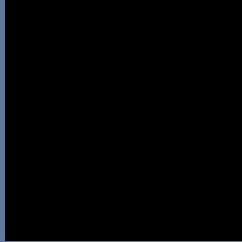
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

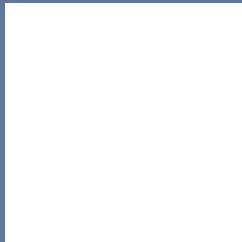
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 50, 24.128, 276.469**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 50, 24.128, 276.469.



This preview shows how white text looks on a background with the CIELCh color 50, 24.128, 276.469.

# 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, 24.128, 276.469

### Protanopia

50, 24.133, 285.156

### Deuteranopia

50, 25.281, 285.724



**Tritanopia**  
50, 12.682, 226.023



# Trichromacy



**Original Color**  
50, 24.128, 276.469

**Protanomaly**  
50, 24.275, 282.074

**Deuteranomaly**  
50, 24.842, 282.445

**Tritanomaly**  
50, 15.365, 252.327

# Monochromacy



**Original Color**  
50, 24.128, 276.469

**Achromatopsia**  
50, 0.007, 296.813

**Achromatomaly**  
50, 8.662, 270.869

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 50, 24.128, 276.469 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(98, 119, 159)` looks like.

```
.text, #text, p{  
    color:rgb(98, 119, 159)  
}
```

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(98, 119, 159) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(98, 119, 159) }
```

## Border

The CSS property to change the border of an element to CIELCh 50, 24.128, 276.469 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(98, 119, 159) }
```

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

```
.border{ border-color:rgb(98, 119, 159) }
```

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

Here you see how a box with a 4 pixel `rgb(98, 119, 159)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(98, 119, 159); -webkit-box-  
shadow:4px 4px 4px 4px rgb(98, 119, 159);  
box-shadow:4px 4px 4px 4px rgb(98, 119,  
159) }
```

# Background

The CSS property to change the background color of an element to CIELCh 50, 24.128, 276.469 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(98, 119, 159) }
```

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

```
.background{ background-color: rgb(98, 119,  
159) }
```

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