

# Converting Colors

CIELCh(50, 23.159, 300.572)

Have a look what the booklet for  
CIELCh(50, 23.159, 300.572)  
contains.

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# Color

**CIELCh(50, 23.104, 300.162)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	7A7299
RGB	122, 114, 153
RGB Percent	48%, 45%, 60%
CMY	0.5222, 0.5536, 0.4007
CMYK	0.20, 0.26, 0.00, 0.40
HSL	252°, 16%, 52%
HSV	252°, 26%, 60%
XYZ	19.7381, 18.4187, 32.5789
YIQ	120.8380, -7.7510, 13.8250

# Conversions

## Conversions Part 2

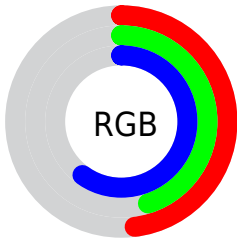
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	122, 114, 153
Decimal	8024729
CIE <sub>Lab</sub>	50.00, 11.61, -19.98
CIE <sub>LCh</sub>	50, 23.104, 300.162
Yxy	18.4187, 0.2790, 0.2604
Android (android.graphics.Color)	4286214809 (0xFF7A7299)
YUV	120.8380, 15.8559, 1.0191
Hunter-Lab	42.9170, 6.9899, -14.9661

# Details

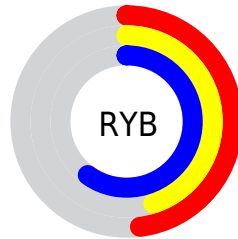
The CIELCh color **50, 23.104, 300.162** is a dark color, and the websafe version is hex **666699**. A complement of this color would be **62, 21.884, 116.498**, and the grayscale version is **51, 0.007, 296.813**.

A 20% lighter version of the original color is **70, 22.770, 300.210**, and **30, 23.282, 300.620** is the 20% darker color. If you saturate the color by 10%, you get **45, 32.757, 301.136**, and if you desaturate by 10%, it is **55, 13.788, 299.303**.

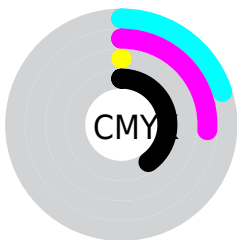
# Distribution



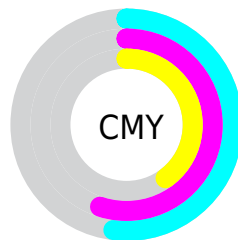
- Red (48%)
- Green (45%)
- Blue (60%)



- Red (48%)
- Yellow (45%)
- Blue (60%)



- Cyan (20%)
- Magenta (26%)
- Yellow (0%)
- Black (40%)




- Cyan (52%)
- Magenta (55%)
- Yellow (40%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 50, 23.104, 300.162 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, 23.104, 300.162 by changing the saturation by 10% instead.





 50, 23.104,  
300.162


 50, 23.104,  
300.162


 100, 23.104,  
300.162


 40, 23.104,  
300.162


 70, 23.104,  
300.162

 30, 23.104,  
300.162


 80, 23.104,  
300.162


 20, 23.104,  
300.162

 90, 23.104,  
300.162

 10, 23.104,  
300.162

 0, 23.104, 300.162

 50, 23.104,  
300.162

 50, 23.104,  
300.162

45, 32.757,  
301.136

55, 13.788,  
299.303

40, 42.721,  
302.224

60, 4.813, 298.555

35, 52.899,  
303.405

65, 3.835, 117.912

30, 63.064,  
304.624

71, 12.173,  
117.351

26, 72.753,  
305.775

76, 20.220,  
116.868

22, 81.159,  
306.686

81, 27.996,  
116.452

19, 87.289,  
307.170

86, 35.516,  
116.093

18, 89.751,  
307.404

91, 42.798,  
115.785

95, 49.858,  
115.519



# Harmonies

# Complementary

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



50, 23.104, 300.162



62, 21.884, 116.498

# Rectangle

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



50, 23.104, 300.162



50, 23.104, 350.162



50, 23.104, 120.162



50, 23.104, 170.162

# Sweetspot

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



50, 23.103, 300.161



75, 8.698, 298.743



58, 11.866, 220.526



39, 6.181, 298.846



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, 23.103, 300.161



60, 35.193, 300.742



52, 24.923, 316.794



30, 4.971, 298.821



16, 84.228, 307.459



0, 5.289, 298.055



# Inverse Universe

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



53, 23.375, 332.295



65, 35.167, 332.702



60, 24.463, 134.574



30, 5.151, 331.237



31, 63.400, 338.191



1, 5.480, 331.176



# Previews

## White Background



This preview shows how the CIELCh color 50, 23.104, 300.162 looks on a white background.

## Color Contrast Check

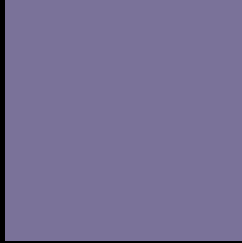
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

# Black Background



This preview shows how the CIELCh color 50, 23.104, 300.162 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

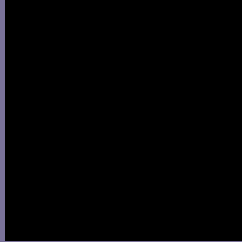
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**CIELCh 50, 23.104, 300.162**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 50, 23.104, 300.162.



This preview shows how white text looks on a background with the CIELCh color 50, 23.104, 300.162.

# 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, 23.104, 300.162


### Protanopia

50, 22.341, 285.034

### Deuteranopia

50, 20.502, 288.845





**Tritanopia**  
50, 5.864, 287.151

# Trichromacy



**Original Color**  
50, 23.104, 300.162

**Protanomaly**  
50, 22.839, 291.327

**Deuteranomaly**  
50, 21.092, 292.858

**Tritanomaly**  
50, 12.393, 297.007

# Monochromacy



**Original Color**  
50, 23.104, 300.162

**Achromatopsia**  
51, 0.007, 296.813

**Achromatomaly**  
50, 8.873, 298.776

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 50, 23.104, 300.162 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(122, 114, 153)` looks like.

```
.text, #text, p{  
    color:rgb(122, 114, 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(122, 114, 153) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(122, 114, 153) }
```

## Border

The CSS property to change the border of an element to CIELCh 50, 23.104, 300.162 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(122, 114, 153) }
```

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

```
.border{ border-color:rgb(122, 114, 153) }
```

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

Here you see how a box with a 4 pixel `rgb(122, 114, 153)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(122, 114, 153); -webkit-box-  
shadow:4px 4px 4px 4px rgb(122, 114, 153);  
box-shadow:4px 4px 4px 4px rgb(122, 114,  
153) }
```

# Background

The CSS property to change the background color of an element to CIELCh 50, 23.104, 300.162 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(122, 114, 153) }
```

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

```
.background{ background-color: rgb(122,  
114, 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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