

# Converting Colors

CIELCh(50, 10.849, 224.347)

Have a look what the booklet for  
CIELCh(50, 10.849, 224.347)  
contains.

<b>CIELCh(50, 10.804, 224.332)</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, 10.804, 224.332)**

# Conversions

## Conversions Part 1

Format	Color
Hex	607B83
RGB	96, 123, 131
RGB Percent	38%, 48%, 51%
CMY	0.6220, 0.5161, 0.4847
CMYK	0.27, 0.06, 0.00, 0.48
HSL	194°, 15%, 45%
HSV	194°, 27%, 52%
XYZ	16.1181, 18.4187, 24.3173
YIQ	115.8390, -18.6600, -3.2360

# Conversions

## Conversions Part 2

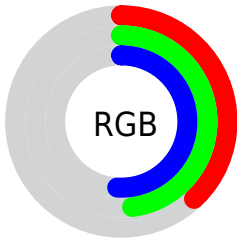
Format	Color
R <sub>Y</sub> B	96, 111, 131
Decimal	6323075
CIE Lab	50.00, -7.73, -7.55
CIE LCh	50, 10.804, 224.332
Yxy	18.4187, 0.2739, 0.3130
Android (android.graphics.Color)	4284513155 (0xFF607B83)
YUV	115.8390, 7.4744, -17.3988
Hunter-Lab	42.9170, -8.0665, -3.5526

# Details

The CIELCh color  $50, 10.804, 224.332$  is a dark color, and the websafe version is hex  $666666$ . A complement of this color would be  $47, 12.799, 42.167$ , and the grayscale version is  $49, 0.007, 296.813$ .

A 20% lighter version of the original color is  $70, 10.878, 225.810$ , and  $30, 10.891, 226.458$  is the 20% darker color. If you saturate the color by 10%, you get  $48, 14.355, 225.233$ , and if you desaturate by 10%, it is  $52, 6.948, 223.658$ .

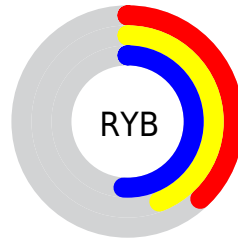
# Distribution



Red (38%)

Green (48%)

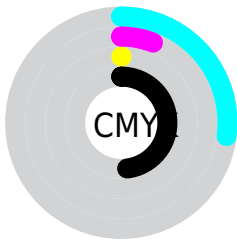
Blue (51%)



Red (38%)

Yellow (44%)

Blue (51%)

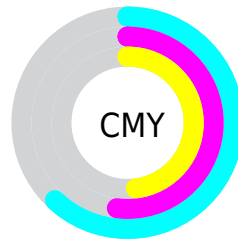


Cyan (27%)

Magenta (6%)

Yellow (0%)

Black (48%)



Cyan (62%)

Magenta (52%)


Yellow (48%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 50, 10.804, 224.332 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, 10.804, 224.332 by changing the saturation by 10% instead.





 50, 10.804,  
224.332


 50, 10.804,  
224.332


 100, 10.804,  
224.332


 40, 10.804,  
224.332


 70, 10.804,  
224.332


 30, 10.804,  
224.332


 80, 10.804,  
224.332


 20, 10.804,  
224.332

 90, 10.804,  
224.332

 10, 10.804,  
224.332

 0, 10.804, 224.332

 50, 10.804,  
224.332

 50, 10.804,  
224.332

48, 14.355,  
225.233

52, 6.948, 223.658

47, 17.543,  
226.429

54, 2.842, 223.231

56, 1.460, 42.458

45, 20.314,  
227.980

58, 5.916, 42.406

44, 22.628,  
229.962

60, 10.485, 42.267

62, 15.137, 42.178

42, 24.468,  
232.456

64, 19.846, 42.136

41, 25.853,  
235.536

66, 24.589, 42.131

68, 29.351, 42.156

40, 26.891,  
239.166

40, 27.241,  
240.375

# Harmonies

# Complementary

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



50, 10.804, 224.332



47, 12.799, 42.167

# Rectangle

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



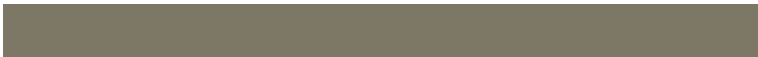
50, 10.804, 224.332



50, 10.804, 274.332



50, 10.804, 44.332



50, 10.804, 94.332

# Sweetspot

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



50, 10.804, 224.326



68, 4.226, 223.274



52, 21.294, 149.217



36, 3.017, 223.321



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, 10.804, 224.326



63, 15.758, 224.847



45, 15.292, 278.635



27, 2.416, 223.306



39, 27.035, 240.328



0, 0.591, 222.853





# Inverse Universe

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



45, 21.225, 333.230



56, 31.552, 333.646



51, 15.156, 91.729



26, 4.496, 332.075



29, 59.088, 339.525



0, 1.070, 331.544



# Previews

## White Background



This preview shows how the CIE LCh color 50, 10.804, 224.332 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, 10.804, 224.332 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

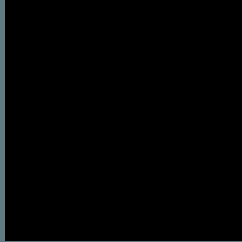
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

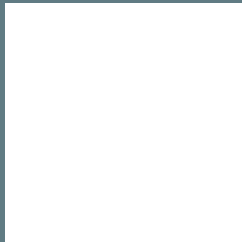
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 50, 10.804, 224.332**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 50, 10.804, 224.332.



This preview shows how white text looks on a background with the CIELCh color 50, 10.804, 224.332.

# 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, 10.804, 224.332

### Protanopia

50, 5.858, 290.945

### Deuteranopia

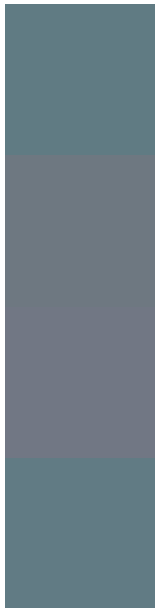
50, 10.365, 306.545



**Tritanopia**  
50, 10.970, 230.999



# Trichromacy



**Original Color**  
50, 10.804, 224.332

**Protanomaly**  
50, 6.427, 254.430

**Deuteranomaly**  
50, 7.892, 274.380

**Tritanomaly**  
50, 10.721, 228.144

# Monochromacy



**Original Color**  
50, 10.804, 224.332

**Achromatopsia**  
49, 0.007, 296.813

**Achromatomaly**  
49, 4.246, 223.635

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 50, 10.804, 224.332 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(96, 123, 131)` looks like.

```
.text, #text, p{  
    color:rgb(96, 123, 131)  
}
```

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(96, 123, 131) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(96, 123, 131) }
```

## Border

The CSS property to change the border of an element to CIELCh 50, 10.804, 224.332 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(96, 123, 131) }
```

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

```
.border{ border-color:rgb(96, 123, 131) }
```

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

Here you see how a box with a 4 pixel `rgb(96, 123, 131)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(96, 123, 131); -webkit-box-  
shadow:4px 4px 4px 4px rgb(96, 123, 131);  
box-shadow:4px 4px 4px 4px rgb(96, 123,  
131) }
```

# Background

The CSS property to change the background color of an element to CIELCh 50, 10.804, 224.332 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(96, 123, 131) }
```

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

```
.background{ background-color: rgb(96, 123,  
131) }
```

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