

# Converting Colors

CIELCh(58, 22.819, 328.576)

Have a look what the booklet for  
CIELCh(58, 22.819, 328.576)  
contains.

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# Color

**CIELCh(58, 22.735, 328.866)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A480A0
RGB	164, 128, 160
RGB Percent	64%, 50%, 63%
CMY	0.3559, 0.4971, 0.3716
CMYK	0.00, 0.22, 0.02, 0.36
HSL	307°, 17%, 57%
HSV	307°, 22%, 64%
XYZ	29.4726, 25.9610, 36.8221
YIQ	142.4120, 11.1840, 17.5840

# Conversions

## Conversions Part 2

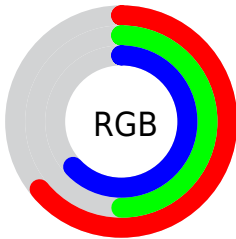
<b>Format</b>	<b>Color</b>
<b>RYB</b>	164, 128, 160
Decimal	10780832
CIELab	58.00, 19.46, -11.75
CIELCh	58, 22.735, 328.866
Yxy	25.9610, 0.3195, 0.2814
Android (android.graphics.Color)	4288970912 (0xFFA480A0)
YUV	142.4120, 8.6709, 18.9327
Hunter-Lab	50.9519, 14.0856, -7.1815

# Details

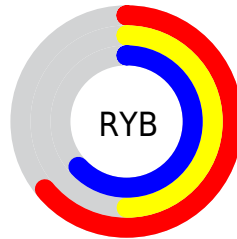
The CIELCh color  $58, 22.735, 328.866$  is a light color, and the websafe version is hex  $996699$ . A complement of this color would be  $64, 22.692, 146.162$ , and the grayscale version is  $59, 0.008, 296.813$ .

A 20% lighter version of the original color is  $78, 22.812, 328.431$ , and  $38, 22.889, 329.511$  is the 20% darker color. If you saturate the color by 10%, you get  $54, 33.043, 329.456$ , and if you desaturate by 10%, it is  $62, 12.322, 328.275$ .

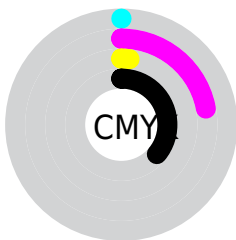
# Distribution



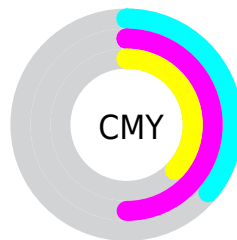
- Red (64%)
- Green (50%)
- Blue (63%)



- Red (64%)
- Yellow (50%)
- Blue (63%)



- Cyan (0%)
- Magenta (22%)
- Yellow (2%)
- Black (36%)



- Cyan (36%)
- Magenta (50%)
- Yellow (37%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 58, 22.735, 328.866 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 58, 22.735, 328.866 by changing the saturation by 10% instead.



 58, 22.735,  
328.866

 58, 22.735,  
328.866

 100, 22.735,  
328.866

 48, 22.735,  
328.866

 78, 22.735,  
328.866

 38, 22.735,  
328.866

 88, 22.735,  
328.866

 28, 22.735,  
328.866

 98, 22.735,  
328.866

 18, 22.735,  
328.866

 8, 22.735, 328.866

 0, 22.735, 328.866

58, 22.735,  
328.866

58, 22.735,  
328.866

54, 33.043,  
329.456

62, 12.322,  
328.275

50, 43.009,  
330.041

67, 1.980, 327.599

71, 8.186, 147.199

47, 52.309,  
330.615

76, 18.109,  
146.647

44, 60.548,  
331.171

80, 27.754,  
146.131

41, 67.301,  
331.709

85, 37.107,  
145.643

40, 72.201,  
332.231


89, 46.169,  
145.181

38, 75.049,  
332.748

93, 52.297,  
145.033

38, 76.264,

333.170

 93, 51.553,  
145.641

# Harmonies

# Complementary

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



58, 22.735, 328.866



64, 22.692, 146.162

# Rectangle

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



58, 22.735, 328.866



58, 22.735, 18.866



58, 22.735, 148.866



58, 22.735, 198.866

# Sweetspot

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



58, 22.733, 328.866



82, 8.954, 327.986



55, 20.784, 296.149



43, 5.810, 328.020



93, 0.011, 296.813



45, 0.006, 296.813





# Same Dimension

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



58, 22.733, 328.866



72, 33.463, 329.136



57, 16.422, 351.500



32, 5.807, 328.116



33, 69.789, 333.113



1, 8.789, 328.612



# Inverse Universe

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



58, 22.733, 328.866



72, 33.463, 329.136



65, 15.742, 167.410



32, 5.807, 328.116



33, 69.789, 333.113

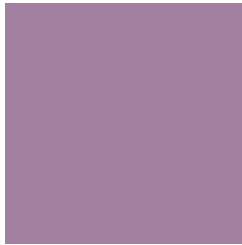


1, 8.789, 328.612



# Previews

## White Background



This preview shows how the CIELCh color 58, 22.735, 328.866 looks on a white background.

## Color Contrast Check

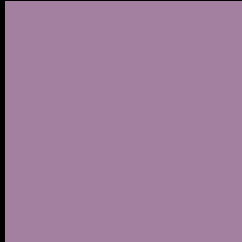
Large Text (above 18pt) WCAG AA ✓ Pass

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 58, 22.735, 328.866 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

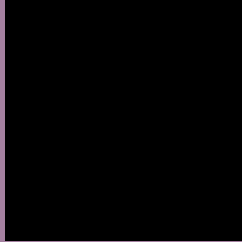
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**CIELCh 58, 22.735, 328.866**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 58, 22.735, 328.866.



This preview shows how white text looks on a background with the CIELCh color 58, 22.735, 328.866.

# 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

58, 22.735, 328.866

### Protanopia

58, 16.527, 287.131

### Deuteranopia

58, 13.479, 304.382





**Tritanopia**  
58, 13.184, 355.476

# Trichromacy



**Original Color**  
58, 22.735, 328.866

**Protanomaly**  
58, 18.192, 304.901

**Deuteranomaly**  
58, 16.347, 316.157

**Tritanomaly**  
58, 16.122, 341.992

# Monochromacy



**Original Color**  
58, 22.735, 328.866

**Achromatopsia**  
59, 0.008, 296.813

**Achromatomaly**  
59, 8.046, 329.440

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 58, 22.735, 328.866 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(164, 128, 160)` looks like.

```
.text, #text, p{  
    color:rgb(164, 128, 160)  
}
```

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(164, 128, 160) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(164, 128, 160) }
```

## Border

The CSS property to change the border of an element to CIELCh 58, 22.735, 328.866 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(164, 128, 160) }
```

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

```
.border{ border-color:rgb(164, 128, 160) }
```

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

Here you see how a box with a 4 pixel `rgb(164, 128, 160)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(164, 128, 160); -webkit-box-  
shadow:4px 4px 4px 4px rgb(164, 128, 160);  
box-shadow:4px 4px 4px 4px rgb(164, 128,  
160) }
```

# Background

The CSS property to change the background color of an element to CIELCh 58, 22.735, 328.866 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(164, 128, 160) }
```

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

```
.background{ background-color: rgb(164,  
128, 160) }
```

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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