

# Converting Colors

CIELCh(58, 20.931, 336.319)

Have a look what the booklet for  
CIELCh(58, 20.931, 336.319)  
contains.

<b>CIELCh(58, 20.768, 336.542)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	12
<b><i>Previews</i></b> .....	21
<b><i>Color Blindness Simulation</i></b> .....	24
<b><i>CSS Examples</i></b> .....	27

# Color

**CIELCh(58, 20.768, 336.542)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	A6809A
RGB	166, 128, 154
RGB Percent	65%, 50%, 60%
CMY	0.3482, 0.4972, 0.3953
CMYK	0.00, 0.23, 0.07, 0.35
HSL	319°, 18%, 58%
HSV	319°, 23%, 65%
XYZ	29.3660, 25.9610, 34.1258
YIQ	142.3260, 14.3020, 16.1420

# Conversions

## Conversions Part 2

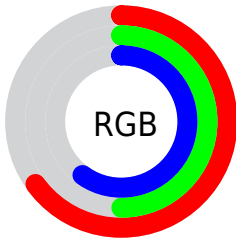
Format	Color
<a href="#">RYB</a>	<a href="#">166, 128, 154</a>
Decimal	<a href="#">10911898</a>
CIELab	<a href="#">58.00, 19.05, -8.27</a>
CIELCh	<a href="#">58, 20.768, 336.542</a>
Yxy	<a href="#">25.9610, 0.3283, 0.2902</a>
Android (android.graphics.Color)	<a href="#">4289101978 (0xFFA6809A)</a>
YUV	<a href="#">142.3260, 5.7553, 20.7621</a>
Hunter-Lab	<a href="#">50.9519, 13.7120, -4.0439</a>

# Details

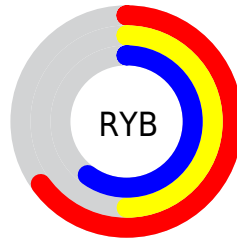
The CIELCh color  $58, 20.768, 336.542$  is a light color, and the websafe version is hex  $996699$ . A complement of this color would be  $65, 20.561, 153.198$ , and the grayscale version is  $59, 0.008, 296.813$ .

A 20% lighter version of the original color is  $78, 20.557, 336.601$ , and  $38, 21.221, 336.694$  is the 20% darker color. If you saturate the color by 10%, you get  $54, 29.844, 337.339$ , and if you desaturate by 10%, it is  $62, 11.625, 335.793$ .

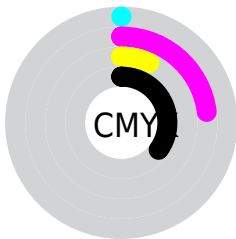
# Distribution



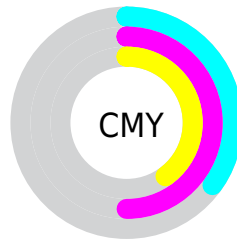
- Red (65%)
- Green (50%)
- Blue (60%)



- Red (65%)
- Yellow (50%)
- Blue (60%)



- Cyan (0%)
- Magenta (23%)
- Yellow (7%)
- Black (35%)




- Cyan (35%)
- Magenta (50%)
- Yellow (40%)


# Brightness & Saturation Gradients

These gradients show how the CIELCh color 58, 20.768, 336.542 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, 20.768, 336.542 by changing the saturation by 10% instead.




 58, 20.768,  
336.542


 58, 20.768,  
336.542


 100, 20.768,  
336.542

 48, 20.768,  
336.542


 78, 20.768,  
336.542

 38, 20.768,  
336.542

 88, 20.768,  
336.542

 28, 20.768,  
336.542

 98, 20.768,  
336.542

 18, 20.768,  
336.542

 8, 20.768, 336.542

 0, 20.768, 336.542

58, 20.768,  
336.542

58, 20.768,  
336.542

54, 29.844,  
337.339

62, 11.625,  
335.793

50, 38.637,  
338.197

67, 2.572, 335.010

71, 6.302, 154.524

46, 46.836,  
339.136

76, 14.945,  
153.884

43, 54.050,  
340.184

81, 23.332,  
153.301

41, 59.849,  
341.387

86, 31.457,  
152.756

39, 63.846,  
342.804

90, 39.324,  
152.244

37, 65.837,  
344.515

93, 43.391,  
152.817

37, 66.443,

345.884

 93, 41.413,  
155.328

# Harmonies

# Complementary

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



58, 20.768, 336.542



65, 20.561, 153.198

# Rectangle

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



58, 20.768, 336.542



58, 20.768, 26.542



58, 20.768, 156.542



58, 20.768, 206.542

# Sweetspot

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



58, 20.766, 336.543



83, 7.816, 335.370



56, 22.275, 303.258



44, 5.121, 335.412



94, 0.011, 296.813



46, 0.006, 296.813





# Same Dimension

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



58, 20.766, 336.543



72, 30.454, 336.905



57, 15.930, 5.571



33, 5.152, 335.531



32, 61.098, 345.658



2, 8.832, 338.251



# Inverse Universe

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



58, 20.766, 336.543



72, 30.454, 336.905



65, 14.538, 181.219



33, 5.152, 335.531



32, 61.098, 345.658

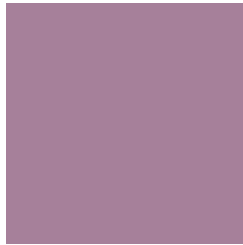


2, 8.832, 338.251



# Previews

## White Background



This preview shows how the CIELCh color 58, 20.768, 336.542 looks on a white background.

## Color Contrast Check

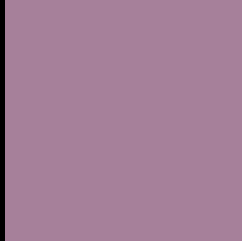
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✗ Fail

Large Text (above 18pt) WCAG AAA ✗ Fail

Any Text WCAG AAA ✗ Fail

# Black Background



This preview shows how the CIE LCh color 58, 20.768, 336.542 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

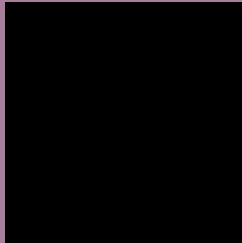
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

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

**CIELCh 58, 20.768, 336.542**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 58, 20.768, 336.542.



This preview shows how white text looks on a background with the CIELCh color 58, 20.768, 336.542.

# 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, 20.768, 336.542


### Protanopia

58, 12.530, 286.615

### Deuteranopia

58, 10.588, 314.473





**Tritanopia**  
58, 14.305, 357.743

# Trichromacy



**Original Color**  
58, 20.768, 336.542

**Protanomaly**  
58, 14.445, 309.740

**Deuteranomaly**  
58, 13.981, 326.471

**Tritanomaly**  
58, 16.471, 347.935

# Monochromacy



**Original Color**  
58, 20.768, 336.542

**Achromatopsia**  
59, 0.008, 296.813

**Achromatomaly**  
59, 7.211, 335.136

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 58, 20.768, 336.542 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(166, 128, 154)` looks like.

```
.text, #text, p{  
    color:rgb(166, 128, 154)  
}
```

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(166, 128, 154) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(166, 128, 154) }
```

## Border

The CSS property to change the border of an element to CIELCh 58, 20.768, 336.542 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(166, 128, 154) }
```

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

```
.border{ border-color:rgb(166, 128, 154) }
```

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

Here you see how a box with a 4 pixel `rgb(166, 128, 154)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(166, 128, 154); -webkit-box-  
shadow:4px 4px 4px 4px rgb(166, 128, 154);  
box-shadow:4px 4px 4px 4px rgb(166, 128,  
154) }
```

# Background

The CSS property to change the background color of an element to CIELCh 58, 20.768, 336.542 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(166, 128, 154) }
```

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

```
.background{ background-color: rgb(166,  
128, 154) }
```

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