

# Converting Colors

CIELCh(53, 3.486, 199.160)

Have a look what the booklet for  
CIELCh(53, 3.486, 199.160) contains.

<b>CIELCh(53, 3.513, 199.148)</b> .....	3
<i><b>Conversions</b></i> .....	4
<i><b>Details</b></i> .....	6
<i><b>Harmonies</b></i> .....	11
<i><b>Previews</b></i> .....	20
<i><b>Color Blindness Simulation</b></i> .....	23
<i><b>CSS Examples</b></i> .....	26

# Color

**CIELCh(53, 3.513, 199.148)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	778080
RGB	119, 128, 128
RGB Percent	47%, 50%, 50%
CMY	0.5319, 0.4966, 0.4966
CMYK	0.07, 0.00, 0.00, 0.50
HSL	180°, 4%, 49%
HSV	180°, 7%, 50%
XYZ	19.3416, 21.0462, 23.5881
YIQ	125.3090, -5.3640, -1.9080

# Conversions

## Conversions Part 2

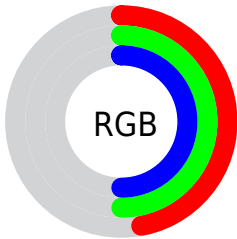
<b>Format</b>	<b>Color</b>
<b>RYB</b>	119, 124, 128
Decimal	7831680
CIELab	53.00, -3.32, -1.15
CIElCh	53, 3.513, 199.148
Yxy	21.0462, 0.3023, 0.3290
Android (android.graphics.Color)	4286021760 (0xFF778080)
YUV	125.3090, 1.3267, -5.5330
Hunter-Lab	45.8761, -5.0268, 1.6282

# Details

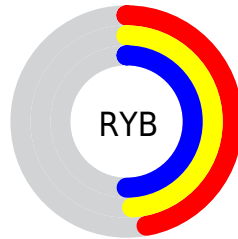
The CIELCh color **53, 3.513, 199.148** is a dark color, and the websafe version is hex **666666**. A complement of this color would be **51, 3.665, 19.694**, and the grayscale version is **53, 0.007, 296.813**.

A 20% lighter version of the original color is **73, 3.674, 199.243**, and **33, 3.378, 198.990** is the 20% darker color. If you saturate the color by 10%, you get **52, 8.305, 198.563**, and if you desaturate by 10%, it is **54, 1.527, 19.287**.

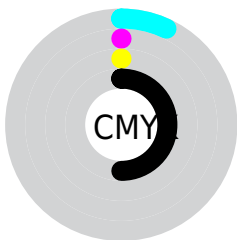
# Distribution



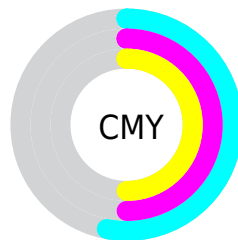
- Red (47%)
- Green (50%)
- Blue (50%)



- Red (47%)
- Yellow (49%)
- Blue (50%)



- Cyan (7%)
- Magenta (0%)
- Yellow (0%)
- Black (50%)



- Cyan (53%)
- Magenta (50%)
- Yellow (50%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 53, 3.513, 199.148 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 53, 3.513, 199.148 by changing the saturation by 10% instead.



■ 53, 3.513, 199.148

■ 53, 3.513, 199.148

■ 100, 3.513,  
199.148

■ 43, 3.513, 199.148

■ 73, 3.513, 199.148

■ 33, 3.513, 199.148

■ 83, 3.513, 199.148

■ 23, 3.513, 199.148

■ 93, 3.513, 199.148

■ 13, 3.513, 199.148

■ 3, 3.513, 199.148

■ 0, 3.513, 199.148

■ 53, 3.513, 199.148

■ 53, 3.513, 199.148

■ 52, 8.305, 198.563

■ 54, 1.527, 19.287

■ 51, 12.776,

■ 55, 6.750, 20.049

198.087

56, 12.100, 20.654

51, 16.849,  
197.667

58, 17.529, 21.258

50, 20.451,  
197.304

59, 22.997, 21.864

49, 23.516,  
196.999

61, 28.474, 22.470

49, 25.997,  
196.755

64, 39.369, 23.672

49, 27.869,  
196.573

66, 44.757, 24.261

49, 29.141,  
196.449

48, 29.917,  
196.372

# Harmonies

# Complementary

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



53, 3.513, 199.148



51, 3.665, 19.694

# Rectangle

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



53, 3.513, 199.148



53, 3.513, 249.148



53, 3.513, 19.148



53, 3.513, 69.148

# Sweetspot

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



53, 3.514, 199.128



68, 1.247, 199.661



53, 6.332, 143.649



36, 0.715, 199.698



85, 0.010, 296.813



36, 0.005, 296.813



# Same Dimension

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



53, 3.514, 199.128



67, 4.924, 199.052



52, 3.088, 254.523



26, 2.793, 198.996



48, 29.983, 196.351



0, 0.000, 0.000





# Inverse Universe

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



51, 3.665, 19.694



64, 5.173, 19.786



52, 3.137, 72.702



25, 2.951, 19.855



25, 61.094, 38.337



0, 0.000, 0.000



# Previews

## White Background



This preview shows how the CIELCh color 53, 3.513, 199.148 looks on a white background.

## Color Contrast Check

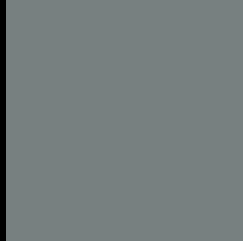
Large Text (above 18pt) WCAG AA ✓ Pass

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 53, 3.513, 199.148 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

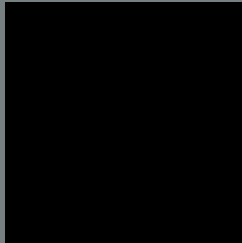
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA × Fail

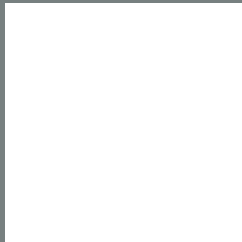
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 53, 3.513, 199.148

## Background



This preview shows how black text looks on a background with the CIELCh color 53, 3.513, 199.148.



This preview shows how white text looks on a background with the CIELCh color 53, 3.513, 199.148.

# 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

53, 3.513, 199.148

### Protanopia

53, 0.993, 343.479

### Deuteranopia

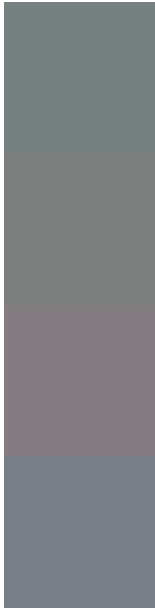
53, 7.589, 342.720



**Tritanopia**  
53, 6.175, 269.202



# Trichromacy



## Original Color

53, 3.513, 199.148

## Protanomaly

53, 0.790, 199.821

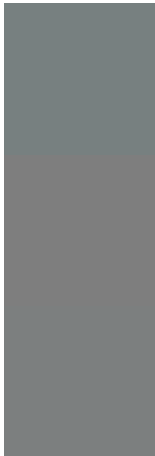
## Deuteranomaly

53, 4.038, 333.998

## Tritanomaly

53, 4.814, 256.793

# Monochromacy



## Original Color

53, 3.513, 199.148

## Achromatopsia

53, 0.007, 296.813

## Achromatomaly

53, 1.184, 199.613

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 53, 3.513, 199.148 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(119, 128, 128)` looks like.

```
.text, #text, p{  
    color:rgb(119, 128, 128)  
}
```

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(119, 128, 128) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(119, 128, 128) }
```

## Border

The CSS property to change the border of an element to CIELCh 53, 3.513, 199.148 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(119, 128, 128) }
```

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

```
.border{ border-color:rgb(119, 128, 128) }
```

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

Here you see how a box with a 4 pixel `rgb(119, 128, 128)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(119, 128, 128); -webkit-box-  
shadow:4px 4px 4px 4px rgb(119, 128, 128);  
box-shadow:4px 4px 4px 4px rgb(119, 128,  
128) }
```

# Background

The CSS property to change the background color of an element to CIELCh 53, 3.513, 199.148 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(119, 128, 128) }
```

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

```
.background{ background-color: rgb(119,  
128, 128) }
```

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