

# Converting Colors

CIELCh(70, 3.537, 7.610)

Have a look what the booklet for  
CIELCh(70, 3.537, 7.610) contains.

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# Color

**CIELCh(70, 3.468, 10.518)**

# Conversions

## Conversions Part 1

Format	Color
Hex	B2A9AA
RGB	178, 169, 170
RGB Percent	70%, 66%, 67%
CMY	0.3019, 0.3372, 0.3333
CMYK	0.00, 0.05, 0.04, 0.30
HSL	353°, 6%, 68%
HSV	353°, 5%, 70%
XYZ	39.8097, 40.7494, 43.8033
YIQ	171.8050, 5.0430, 2.2190

# Conversions

## Conversions Part 2

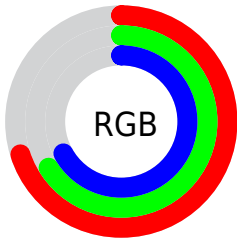
<b>Format</b>	<b>Color</b>
<b>RYB</b>	178, 169, 170
Decimal	11708842
CIELab	70.00, 3.41, 0.63
CIELCh	70, 3.468, 10.518
Yxy	40.7494, 0.3201, 0.3277
Android (android.graphics.Color)	4289898922 (0xFFB2A9AA)
YUV	171.8050, -0.8899, 5.4330
Hunter-Lab	63.8353, -0.3933, 4.0003

# Details

The CIELCh color **70, 3.468, 10.518** is a light color, and the websafe version is hex **999999**. A complement of this color would be **72, 3.379, 190.025**, and the grayscale version is **70, 0.009, 296.813**.

A 20% lighter version of the original color is **90, 3.645, 11.329**, and **50, 3.311, 9.536** is the 20% darker color. If you saturate the color by 10%, you get **65, 10.657, 11.561**, and if you desaturate by 10%, it is **75, 3.279, 190.060**.

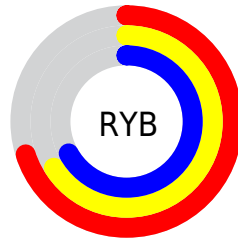
# Distribution



Red (70%)

Green (66%)

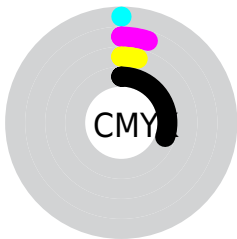
Blue (67%)



Red (70%)

Yellow (66%)

Blue (67%)

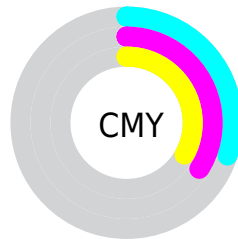


Cyan (0%)

Magenta (5%)

Yellow (4%)

Black (30%)



Cyan (30%)

Magenta (34%)

Yellow (33%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 70, 3.468, 10.518 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 70, 3.468, 10.518 by changing the saturation by 10% instead.



 70, 3.468, 10.518       70, 3.468, 10.518

 100, 3.468, 10.518       60, 3.468, 10.518

 90, 3.468, 10.518       50, 3.468, 10.518

 40, 3.468, 10.518

 30, 3.468, 10.518

 20, 3.468, 10.518

 10, 3.468, 10.518

 0, 3.468, 10.518

 70, 3.468, 10.518       70, 3.468, 10.518

 65, 10.657, 11.561       75, 3.279, 190.060

60, 18.286, 12.702

80, 9.599, 189.305

55, 26.305, 14.095

85, 15.524,  
188.720

51, 34.606, 15.836

91, 21.091,  
188.218

47, 43.005, 18.040

43, 51.245, 20.836

95, 25.102,  
190.935

41, 59.042, 24.334

95, 24.547,  
197.904

39, 66.149, 28.534

37, 72.332, 33.136

# Harmonies

# Complementary

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



70, 3.468, 10.518



72, 3.379, 190.025

# Rectangle

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



70, 3.468, 10.518



70, 3.468, 60.518



70, 3.468, 190.518



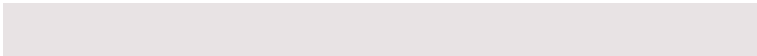
70, 3.468, 240.518

# Sweetspot

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



70, 3.466, 10.542



91, 1.687, 10.082



70, 5.783, 321.443



49, 0.967, 10.054



96, 0.011, 296.813



49, 0.007, 296.813



# Same Dimension

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



70, 3.466, 10.542



88, 5.122, 10.656



71, 2.810, 61.239



36, 2.738, 10.700



31, 66.742, 34.557



2, 9.242, 12.323





# Inverse Universe

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



70, 3.466, 10.542



88, 5.122, 10.656



71, 2.760, 242.526



36, 2.738, 10.700



31, 66.742, 34.557



2, 9.242, 12.323



# Previews

## White Background



This preview shows how the CIELCh color 70, 3.468, 10.518 looks on a white background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

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 70, 3.468, 10.518 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

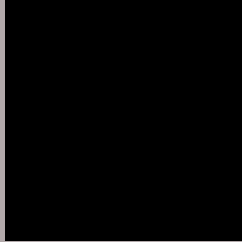
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

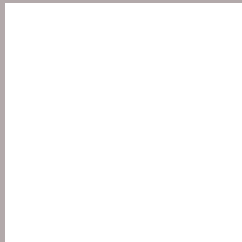
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 70, 3.468, 10.518**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 70, 3.468, 10.518.

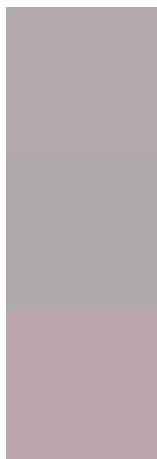


This preview shows how white text looks on a background with the CIELCh color 70, 3.468, 10.518.

# 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

70, 3.468, 10.518

### Protanopia

70, 1.615, 359.449

### Deuteranopia

70, 8.857, 2.259



**Tritanopia**  
70, 9.112, 322.870



# Trichromacy



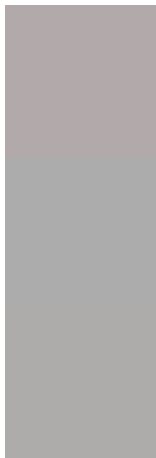
**Original Color**  
70, 3.468, 10.518

**Protanomaly**  
70, 1.975, 3.270

**Deuteranomaly**  
70, 6.852, 1.398

**Tritanomaly**  
70, 6.459, 330.228

# Monochromacy



**Original Color**  
70, 3.468, 10.518

**Achromatopsia**  
70, 0.009, 296.813

**Achromatomaly**  
70, 1.133, 19.070

# CSS Examples

## Text

The CSS property to change the color of the text to CIElCh 70, 3.468, 10.518 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(178, 169, 170)` looks like.

```
.text, #text, p{  
    color:rgb(178, 169, 170)  
}
```

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(178, 169, 170) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(178, 169, 170) }
```

## Border

The CSS property to change the border of an element to CIELCh 70, 3.468, 10.518 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(178, 169, 170) }
```

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

```
.border{ border-color:rgb(178, 169, 170) }
```

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

Here you see how a box with a 4 pixel `rgb(178, 169, 170)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(178, 169, 170); -webkit-box-  
shadow:4px 4px 4px 4px rgb(178, 169, 170);  
box-shadow:4px 4px 4px 4px rgb(178, 169,  
170) }
```

# Background

The CSS property to change the background color of an element to CIELCh 70, 3.468, 10.518 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(178, 169, 170) }
```

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

```
.background{ background-color: rgb(178,  
169, 170) }
```

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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