

# Converting Colors

CIELCh(69, 23.769, 179.455)

Have a look what the booklet for  
CIELCh(69, 23.769, 179.455)  
contains.

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# Color

**CIELCh(69, 23.960, 178.666)**

# Conversions

## Conversions Part 1

Format	Color
Hex	74B5A7
RGB	116, 181, 167
RGB Percent	45%, 71%, 65%
CMY	0.5466, 0.2918, 0.3467
CMYK	0.36, 0.00, 0.08, 0.29
HSL	167°, 30%, 58%
HSV	167°, 36%, 71%
XYZ	30.5301, 39.3444, 42.3520
YIQ	159.9690, -34.2460, -18.1340

# Conversions

## Conversions Part 2

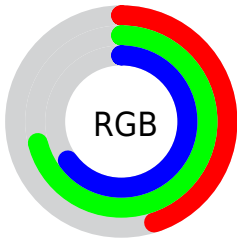
<b>Format</b>	<b>Color</b>
<b>RYB</b>	116, 152, 181
Decimal	7648679
CIELab	69.00, -23.95, 0.56
CIElCh	69, 23.960, 178.666
Yxy	39.3444, 0.2720, 0.3506
Android (android.graphics.Color)	4285838759 (0xFF74B5A7)
YUV	159.9690, 3.4663, -38.5608
Hunter-Lab	62.7251, -22.8880, 3.8749

# Details

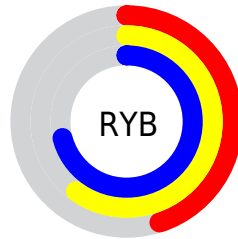
The CIELCh color **69, 23.960, 178.666** is a light color, and the websafe version is hex **669999**. A complement of this color would be **56, 27.653, 6.305**, and the grayscale version is **66, 0.008, 296.813**.

A 20% lighter version of the original color is **89, 24.019, 178.759**, and **49, 23.955, 178.242** is the 20% darker color. If you saturate the color by 10%, you get **68, 29.715, 177.548**, and if you desaturate by 10%, it is **70, 17.714, 179.703**.

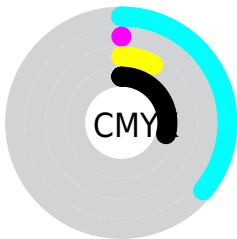
# Distribution



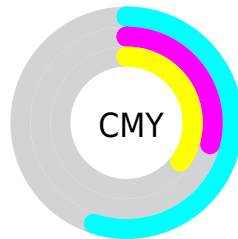
- Red (45%)
- Green (71%)
- Blue (65%)



- Red (45%)
- Yellow (60%)
- Blue (71%)



- Cyan (36%)
- Magenta (0%)
- Yellow (8%)
- Black (29%)



- Cyan (55%)
- Magenta (29%)
- Yellow (35%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 69, 23.960, 178.666 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 69, 23.960, 178.666 by changing the saturation by 10% instead.



 69, 23.960,  
178.666

 69, 23.960,  
178.666

 100, 23.960,  
178.666

 59, 23.960,  
178.666

 89, 23.960,  
178.666

 49, 23.960,  
178.666

 99, 23.960,  
178.666

 39, 23.960,  
178.666

 29, 23.960,  
178.666

 19, 23.960,  
178.666

 9, 23.960, 178.666

 0, 23.960, 178.666

69, 23.960,  
178.666

69, 23.960,  
178.666

68, 29.715,  
177.548

70, 17.714,  
179.703

67, 34.865,  
176.336

71, 11.092,  
180.687

67, 39.315,  
175.005

73, 4.205, 181.672

66, 43.004,  
173.531

74, 2.850, 2.268

76, 9.990, 3.221

66, 45.918,  
171.893

78, 17.146, 4.044

66, 48.118,  
170.086

79, 24.269, 4.826

81, 29.451, 4.274

66, 48.913,  
169.356

81, 29.930, 0.463

# Harmonies

# Complementary

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



69, 23.960, 178.666



56, 27.653, 6.305

# Rectangle

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



69, 23.960, 178.666



69, 23.960, 228.666



69, 23.960, 358.666



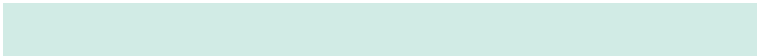
69, 23.960, 48.666

# Sweetspot

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



69, 23.961, 178.664



91, 9.504, 181.150



69, 40.457, 136.408



48, 6.370, 181.022



96, 0.011, 296.813



49, 0.007, 296.813



# Same Dimension

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



69, 23.961, 178.664



87, 34.623, 177.808



64, 18.163, 232.994



37, 3.927, 181.333



56, 43.128, 169.627



7, 10.046, 175.859





# Inverse Universe

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



56, 27.653, 6.305



67, 41.321, 7.654



60, 22.806, 47.765



35, 4.066, 2.888



32, 62.394, 27.385



2, 9.449, 5.853



# Previews

## White Background



This preview shows how the CIE LCh color 69, 23.960, 178.666 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 CIELCh color 69, 23.960, 178.666 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

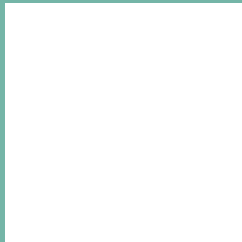
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 69, 23.960, 178.666**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 69, 23.960, 178.666.

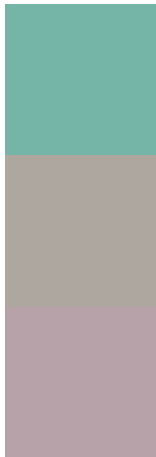


This preview shows how white text looks on a background with the CIELCh color 69, 23.960, 178.666.

# 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](#).

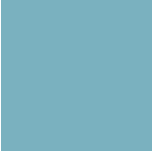
## Dichromacy



**Original Color**  
69, 23.960, 178.666

**Protanopia**  
69, 4.943, 81.677

**Deuteranopia**  
69, 9.154, 351.612



**Tritanopia**  
69, 19.320, 221.742



# Trichromacy



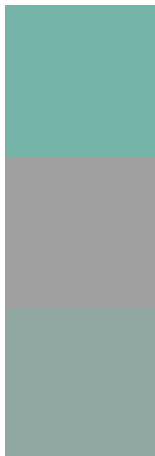
**Original Color**  
69, 23.960, 178.666

**Protanomaly**  
69, 9.359, 162.722

**Deuteranomaly**  
68, 4.085, 199.172

**Tritanomaly**  
69, 19.475, 204.415

# Monochromacy



**Original Color**  
69, 23.960, 178.666

**Achromatopsia**  
66, 0.008, 296.813

**Achromatomaly**  
67, 9.005, 180.751

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 69, 23.960, 178.666 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(116, 181, 167)` looks like.

```
.text, #text, p{  
    color:rgb(116, 181, 167)  
}
```

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(116, 181, 167) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(116, 181, 167) }
```

## Border

The CSS property to change the border of an element to CIELCh 69, 23.960, 178.666 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(116, 181, 167) }
```

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

```
.border{ border-color:rgb(116, 181, 167) }
```

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

Here you see how a box with a 4 pixel `rgb(116, 181, 167)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(116, 181, 167); -webkit-box-shadow:4px 4px 4px 4px rgb(116, 181, 167); box-shadow:4px 4px 4px 4px rgb(116, 181, 167) }
```

# Background

The CSS property to change the background color of an element to CIELCh 69, 23.960, 178.666 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(116, 181, 167) }
```

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

```
.background{ background-color: rgb(116,  
181, 167) }
```

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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