

# Converting Colors

CIELCh(68, 28.223, 180.025)

Have a look what the booklet for  
CIELCh(68, 28.223, 180.025)  
contains.

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**Color**

**CIElCh(68, 28.230, 180.000)**

# Conversions

## Conversions Part 1

Format	Color
Hex	64B4A5
RGB	100, 180, 165
RGB Percent	39%, 71%, 65%
CMY	0.6086, 0.2949, 0.3537
CMYK	0.44, 0.00, 0.08, 0.29
HSL	169°, 35%, 55%
HSV	169°, 44%, 71%
XYZ	28.2904, 37.9720, 41.3451
YIQ	154.3700, -42.8650, -21.6250

# Conversions

## Conversions Part 2

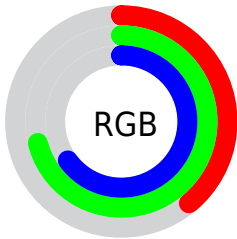
<b>Format</b>	<b>Color</b>
<b>RYB</b>	100, 144, 180
Decimal	6599845
CIELab	68.00, -28.23, 0.00
CIELCh	68, 28.230, 180.000
Yxy	37.9720, 0.2629, 0.3529
Android (android.graphics.Color)	4284789925 (0xFF64B4A5)
YUV	154.3700, 5.2406, -47.6825
Hunter-Lab	61.6215, -25.8882, 3.3542

# Details

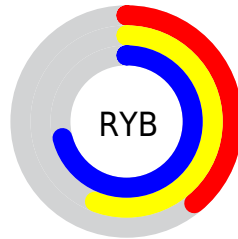
The CIELCh color **68, 28.230, 180.000** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **52, 34.384, 9.906**, and the grayscale version is **64, 0.008, 296.813**.

A 20% lighter version of the original color is **88, 28.164, 180.192**, and **48, 28.399, 179.457** is the 20% darker color. If you saturate the color by 10%, you get **67, 33.281, 178.867**, and if you desaturate by 10%, it is **69, 22.577, 181.049**.

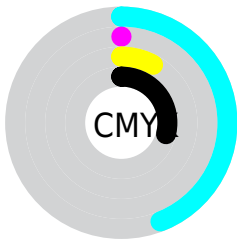
# Distribution



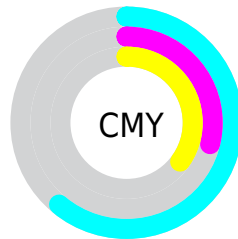
- Red (39%)
- Green (71%)
- Blue (65%)



- Red (39%)
- Yellow (56%)
- Blue (71%)



- Cyan (44%)
- Magenta (0%)
- Yellow (8%)
- Black (29%)




- Cyan (61%)
- Magenta (29%)
- Yellow (35%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 68, 28.230, 180.000 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 68, 28.230, 180.000 by changing the saturation by 10% instead.




 68, 28.230,  
180.000

 68, 28.230,  
180.000

 100, 28.230,  
180.000


 58, 28.230,  
180.000


 88, 28.230,  
180.000

 48, 28.230,  
180.000

 98, 28.230,  
180.000

 38, 28.230,  
180.000

 28, 28.230,  
180.000

 18, 28.230,  
180.000

 8, 28.230, 180.000

 0, 28.230, 180.000

68, 28.230,  
180.000

68, 28.230,  
180.000

67, 33.281,  
178.867

69, 22.577,  
181.049

67, 37.631,  
177.634

70, 16.430,  
182.038

66, 41.218,  
176.277

71, 9.905, 182.986

73, 3.110, 183.976

66, 44.023,  
174.774

74, 3.858, 4.551

66, 46.089,  
173.112

76, 10.920, 5.450

65, 47.053,  
172.172

77, 18.008, 6.259

79, 25.071, 7.035

81, 29.596, 6.262

# Harmonies

# Complementary

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



68, 28.230, 180.000



52, 34.384, 9.906

# Rectangle

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



68, 28.230, 180.000



68, 28.230, 230.000



68, 28.230, 0.000



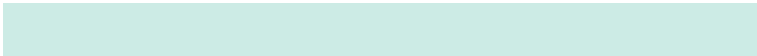
68, 28.230, 50.000

# Sweetspot

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



68, 28.231, 179.998



91, 11.052, 183.105



67, 49.797, 136.305



48, 7.701, 182.900



96, 0.011, 296.813



49, 0.007, 296.813



# Same Dimension

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



68, 28.231, 179.998



86, 40.279, 178.935



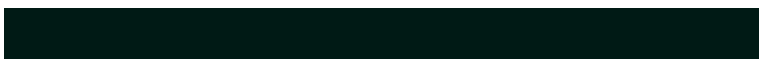
61, 21.773, 236.818



37, 3.877, 183.475



56, 41.646, 172.417



7, 9.861, 178.363





# Inverse Universe

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



52, 34.384, 9.906



62, 51.309, 11.940



57, 28.878, 49.225



35, 4.026, 4.995



31, 63.501, 29.513

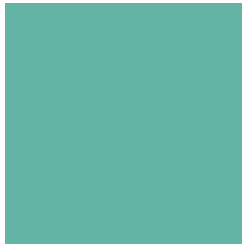


2, 9.382, 7.548



# Previews

## White Background



This preview shows how the CIE LCh color 68, 28.230, 180.000 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 68, 28.230, 180.000 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

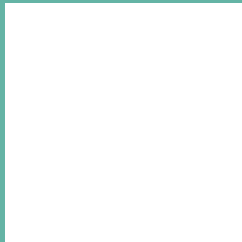
If you want to check with other color combinations, try the [Color Contrast Checker](#).

# CIELCh 68, 28.230, 180.000

## Background



This preview shows how black text looks on a background with the CIELCh color 68, 28.230, 180.000.

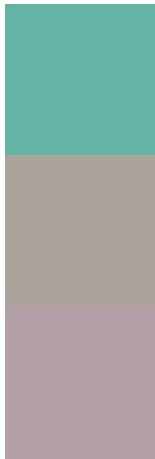


This preview shows how white text looks on a background with the CIELCh color 68, 28.230, 180.000.

# 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**  
68, 28.230, 180.000

**Protanopia**  
68, 4.960, 81.661

**Deuteranopia**  
68, 8.795, 345.953



**Tritanopia**  
68, 22.851, 217.697



# Trichromacy



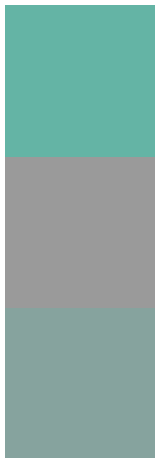
**Original Color**  
68, 28.230, 180.000

**Protanomaly**  
67, 11.528, 166.687

**Deuteranomaly**  
67, 6.270, 198.938

**Tritanomaly**  
68, 23.580, 202.962

# Monochromacy



**Original Color**  
68, 28.230, 180.000

**Achromatopsia**  
64, 0.008, 296.813

**Achromatomaly**  
65, 11.086, 183.881

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 68, 28.230, 180.000 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(100, 180, 165)` looks like.

```
.text, #text, p{  
    color:rgb(100, 180, 165)  
}
```

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(100, 180, 165) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(100, 180, 165) }
```

## Border

The CSS property to change the border of an element to CIELCh 68, 28.230, 180.000 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(100, 180, 165) }
```

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

```
.border{ border-color:rgb(100, 180, 165) }
```

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

Here you see how a box with a 4 pixel `rgb(100, 180, 165)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(100, 180, 165); -webkit-box-  
shadow:4px 4px 4px 4px rgb(100, 180, 165);  
box-shadow:4px 4px 4px 4px rgb(100, 180,  
165) }
```

# Background

The CSS property to change the background color of an element to CIELCh 68, 28.230, 180.000 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(100, 180, 165) }
```

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

```
.background{ background-color: rgb(100,  
180, 165) }
```

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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