

# Converting Colors

CIELCh(68, 24.790, 199.910)

Have a look what the booklet for  
CIELCh(68, 24.790, 199.910)  
contains.

<b>CIELCh(68, 24.715, 200.023)</b> .....	3
<b><i>Conversions</i></b> .....	4
<b><i>Details</i></b> .....	6
<b><i>Harmonies</i></b> .....	11
<b><i>Previews</i></b> .....	20
<b><i>Color Blindness Simulation</i></b> .....	23
<b><i>CSS Examples</i></b> .....	26

**Color**

**CIELCh(68, 24.715, 200.023)**

# Conversions

## Conversions Part 1

Format	Color
Hex	65B2B4
RGB	101, 178, 180
RGB Percent	40%, 70%, 71%
CMY	0.6034, 0.3014, 0.2936
CMYK	0.44, 0.01, 0.00, 0.29
HSL	182°, 35%, 55%
HSV	182°, 44%, 71%
XYZ	29.5830, 37.9720, 49.0243
YIQ	155.2050, -46.5340, -15.7020

# Conversions

## Conversions Part 2

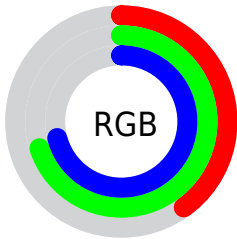
<b>Format</b>	<b>Color</b>
<b>RYB</b>	101, 140, 180
Decimal	6664884
CIELab	68.00, -23.22, -8.46
CIElCh	68, 24.715, 200.023
Yxy	37.9720, 0.2538, 0.3257
Android (android.graphics.Color)	4284854964 (0xFF65B2B4)
YUV	155.2050, 12.2239, -47.5378
Hunter-Lab	61.6215, -22.1438, -4.0344

# Details

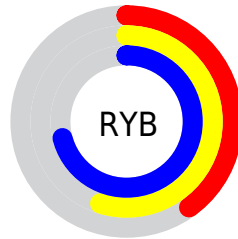
The CIELCh color **68, 24.715, 200.023** is a light color, and the websafe version is hex **66CCCC**. A complement of this color would be **52, 33.911, 25.559**, and the grayscale version is **64, 0.008, 296.813**.

A 20% lighter version of the original color is **88, 24.846, 200.224**, and **48, 24.736, 199.647** is the 20% darker color. If you saturate the color by 10%, you get **67, 28.759, 199.857**, and if you desaturate by 10%, it is **69, 19.969, 200.272**.

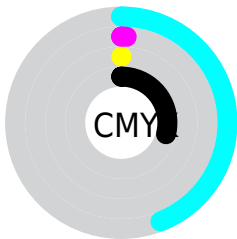
# Distribution



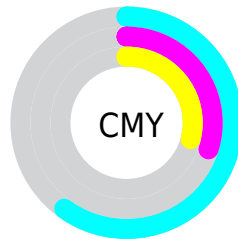
- Red (40%)
- Green (70%)
- Blue (71%)



- Red (40%)
- Yellow (55%)
- Blue (71%)



- Cyan (44%)
- Magenta (1%)
- Yellow (0%)
- Black (29%)



- Cyan (60%)
- Magenta (30%)
- Yellow (29%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 68, 24.715, 200.023 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, 24.715, 200.023 by changing the saturation by 10% instead.




 68, 24.715,  
200.023


 68, 24.715,  
200.023


 100, 24.715,  
200.023


 58, 24.715,  
200.023


 88, 24.715,  
200.023


 48, 24.715,  
200.023


 98, 24.715,  
200.023

 38, 24.715,  
200.023

 28, 24.715,  
200.023

 18, 24.715,  
200.023

 8, 24.715, 200.023

 0, 24.715, 200.023

68, 24.715,  
200.023

68, 24.715,  
200.023

67, 28.759,  
199.857

69, 19.969,  
200.272

66, 32.026,  
199.789

70, 14.615,  
200.602

66, 34.473,  
199.826

71, 8.757, 201.009

66, 36.103,  
199.971

73, 2.498, 201.592

74, 4.068, 21.740

65, 36.972,  
200.226

76, 10.856, 22.329

65, 37.272,  
200.417

78, 17.794, 22.881

80, 24.822, 23.438

81, 28.572, 23.955

# Harmonies

# Complementary

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



68, 24.715, 200.023



52, 33.911, 25.559

# Rectangle

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



68, 24.715, 200.023



68, 24.715, 250.023



68, 24.715, 20.023



68, 24.715, 70.023

# Sweetspot

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



68, 24.715, 200.021



91, 10.204, 201.038



67, 51.680, 141.488



48, 7.091, 200.940



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, 24.715, 200.021



85, 35.071, 199.856



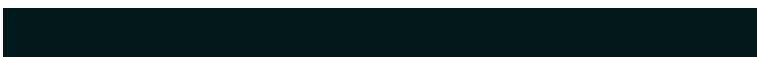
57, 25.660, 264.974



37, 3.597, 201.229



56, 33.057, 200.364



7, 8.790, 202.477





# Inverse Universe

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



54, 51.225, 327.465



65, 75.132, 327.936



62, 28.683, 71.674



35, 6.636, 325.608



36, 77.402, 329.247



3, 15.839, 325.488



# Previews

## White Background



This preview shows how the CIE LCh color 68, 24.715, 200.023 looks on a white background.

## Color Contrast Check

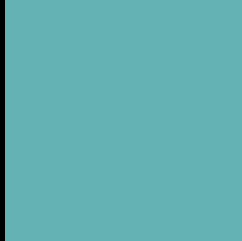
Large Text (above 18pt) WCAG AA × Fail

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, 24.715, 200.023 looks on a black background.

## Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

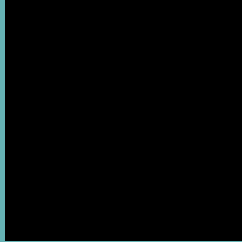
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

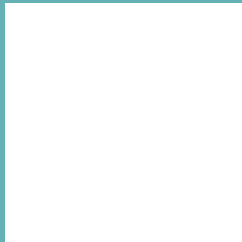
If you want to check with other color combinations, try the [Color Contrast Checker](#).

**CIELCh 68, 24.715, 200.023**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 68, 24.715, 200.023.

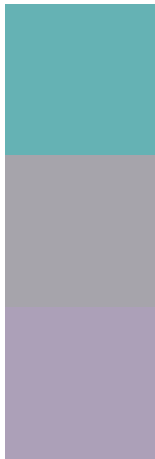


This preview shows how white text looks on a background with the CIELCh color 68, 24.715, 200.023.

# 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, 24.715, 200.023

**Protanopia**  
68, 3.948, 301.490

**Deuteranopia**  
68, 14.024, 309.648



**Tritanopia**  
68, 23.664, 218.385



# Trichromacy



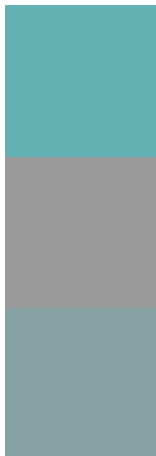
**Original Color**  
68, 24.715, 200.023

**Protanomaly**  
67, 9.964, 214.818

**Deuteranomaly**  
67, 11.332, 250.444

**Tritanomaly**  
68, 23.810, 211.129

# Monochromacy



**Original Color**  
68, 24.715, 200.023

**Achromatopsia**  
64, 0.008, 296.813

**Achromatomaly**  
65, 10.150, 201.722

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 68, 24.715, 200.023 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(101, 178, 180)` looks like.

```
.text, #text, p{  
    color:rgb(101, 178, 180)  
}
```

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(101, 178, 180) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(101, 178, 180) }
```

## Border

The CSS property to change the border of an element to CIELCh 68, 24.715, 200.023 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(101, 178, 180) }
```

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

```
.border{ border-color:rgb(101, 178, 180) }
```

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

Here you see how a box with a 4 pixel `rgb(101, 178, 180)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(101, 178, 180); -webkit-box-  
shadow:4px 4px 4px 4px rgb(101, 178, 180);  
box-shadow:4px 4px 4px 4px rgb(101, 178,  
180) }
```

# Background

The CSS property to change the background color of an element to CIELCh 68, 24.715, 200.023 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(101, 178, 180) }
```

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

```
.background{ background-color: rgb(101,  
178, 180) }
```

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