

Converting Colors

CIELCh(68, 35.479, 196.811)

Have a look what the booklet for
CIELCh(68, 35.479, 196.811)
contains.

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Color

CIELCh(68, 35.557, 196.645)

Conversions

Conversions Part 1

Format	Color
Hex	33B7B7
RGB	51, 183, 183
RGB Percent	20%, 72%, 72%
CMY	0.8002, 0.2825, 0.2825
CMYK	0.72, 0.00, 0.00, 0.28
HSL	180°, 56%, 46%
HSV	180°, 72%, 72%
XYZ	26.8323, 37.9720, 50.6957
YIQ	143.5320, -78.6720, -27.9840

Conversions

Conversions Part 2

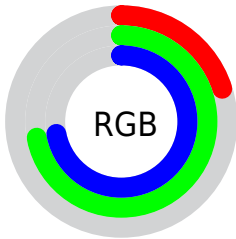
Format	Color
RYB	51, 117, 183
Decimal	3389367
CIELab	68.00, -34.07, -10.18
CIElCh	68, 35.557, 196.645
Yxy	37.9720, 0.2323, 0.3288
Android (android.graphics.Color)	4281579447 (0xFF33B7B7)
YUV	143.5320, 19.4577, -81.1506
Hunter-Lab	61.6215, -30.1120, -5.6426

Details

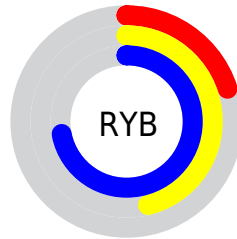
The CIELCh color **68, 35.557, 196.645** is a dark color, and the websafe version is hex **33CCCC**. A complement of this color would be **42, 61.338, 30.958**, and the grayscale version is **60, 0.008, 296.813**.

A 20% lighter version of the original color is **88, 35.427, 197.138**, and **49, 30.077, 197.546** is the 20% darker color. If you saturate the color by 10%, you get **68, 37.453, 196.503**, and if you desaturate by 10%, it is **68, 32.826, 196.848**.

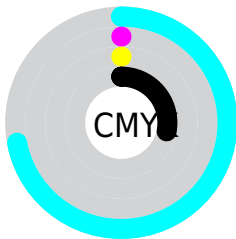
Distribution



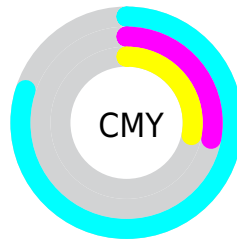
- Red (20%)
- Green (72%)
- Blue (72%)



- Red (20%)
- Yellow (46%)
- Blue (72%)



- Cyan (72%)
- Magenta (0%)
- Yellow (0%)
- Black (28%)




- Cyan (80%)
- Magenta (28%)
- Yellow (28%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 68, 35.557, 196.645 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, 35.557, 196.645 by changing the saturation by 10% instead.


 68, 35.557,
196.645

 68, 35.557,
196.645


 100, 35.557,
196.645


 58, 35.557,
196.645


 88, 35.557,
196.645

 48, 35.557,
196.645

 98, 35.557,
196.645

 38, 35.557,
196.645

 28, 35.557,
196.645

 18, 35.557,
196.645

 8, 35.557, 196.645

 0, 35.557, 196.645

■ 68, 35.557,
196.645

■ 68, 35.557,
196.645

■ 68, 37.453,
196.503

■ 68, 32.826,
196.848

■ 68, 38.567,
196.421

■ 69, 29.262,
197.117

■ 67, 39.057,
196.385

■ 70, 24.913,
197.450

■ 71, 19.856,
197.846

■ 72, 14.189,
198.300

■ 73, 8.019, 198.820

■ 74, 1.453, 199.642

■ 76, 5.412, 19.754

Harmonies

Complementary

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



68, 35.557, 196.645



42, 61.338, 30.958

Rectangle

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



68, 35.557, 196.645



68, 35.557, 246.645



68, 35.557, 16.645



68, 35.557, 66.645

Sweetspot

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



68, 35.557, 196.644



90, 17.388, 198.290



66, 80.435, 137.728



48, 11.670, 198.162



97, 0.011, 296.813



50, 0.007, 296.813

Same Dimension

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



68, 35.557, 196.644



86, 46.445, 196.445



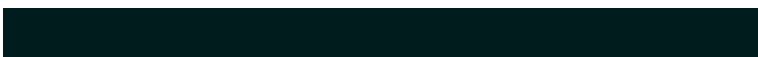
49, 39.876, 270.243



38, 3.777, 198.984



58, 34.644, 196.385



8, 10.518, 197.738

Inverse Universe

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



42, 61.338, 30.958



51, 90.771, 36.646



55, 49.962, 64.715



36, 4.004, 19.915



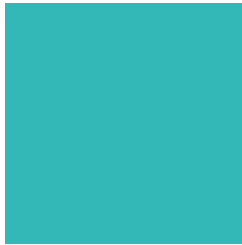
32, 71.870, 39.599



2, 10.638, 19.404

Previews

White Background



This preview shows how the CIELCh color 68, 35.557, 196.645 looks on a white background.

Color Contrast Check

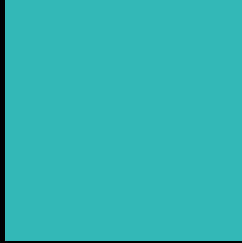
Large Text (above 18pt) WCAG AA × Fail

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, 35.557, 196.645 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

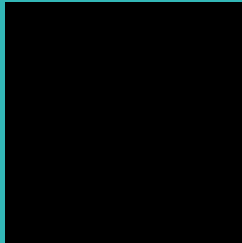
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

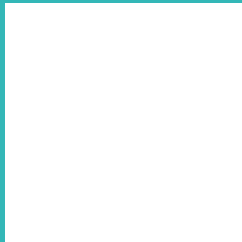
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 68, 35.557, 196.645

Background



This preview shows how black text looks on a background with the CIELCh color 68, 35.557, 196.645.

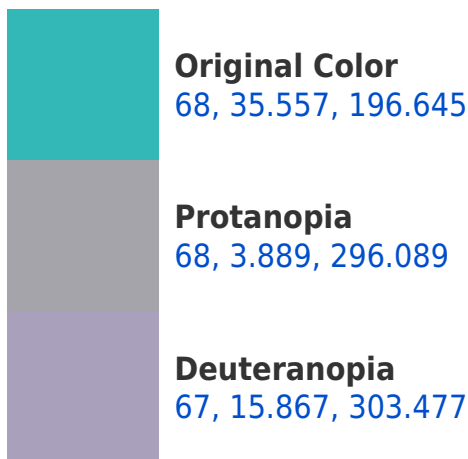


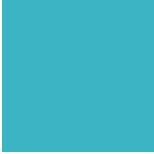
This preview shows how white text looks on a background with the CIELCh color 68, 35.557, 196.645.

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





Tritanopia
68, 33.117, 211.628

Trichromacy



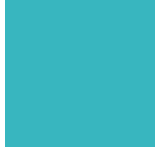
Original Color
68, 35.557, 196.645



Protanomaly
67, 16.256, 205.980



Deuteranomaly
67, 16.903, 234.814



Tritanomaly
68, 33.859, 205.376

Monochromacy



Original Color
68, 35.557, 196.645



Achromatopsia
59, 0.008, 296.813



Achromatomaly
62, 16.786, 197.937

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 68, 35.557, 196.645 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(51, 183, 183)` looks like.

```
.text, #text, p{  
    color:rgb(51, 183, 183)  
}
```

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(51, 183, 183) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(51, 183, 183) }
```

Border

The CSS property to change the border of an element to CIELCh 68, 35.557, 196.645 is called "border". The border property can be set on classes, ids or directly on the HTML element.

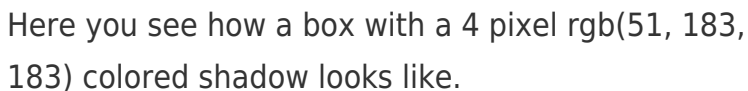
This example shows the color as border, it can be applied via the CSS property "border" or "border-color".

```
.border, #border, table{ border:4px solid rgb(51, 183, 183) }
```

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

```
.border{ border-color:rgb(51, 183, 183) }
```

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



Here you see how a box with a 4 pixel `rgb(51, 183, 183)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px 4px rgb(51, 183, 183); -webkit-box-shadow:4px 4px 4px 4px rgb(51, 183, 183); box-shadow:4px 4px 4px 4px rgb(51, 183, 183) }
```

Background

The CSS property to change the background color of an element to CIELCh 68, 35.557, 196.645 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(51, 183, 183) }
```

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

```
.background{ background-color: rgb(51, 183,  
183) }
```

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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