

Converting Colors

CIELCh(68, 37.286, 196.411)

Have a look what the booklet for
CIELCh(68, 37.286, 196.411)
contains.

CIELCh(68, 37.347, 196.523)	3
<i>Conversions</i>	4
<i>Details</i>	6
<i>Harmonies</i>	12
<i>Previews</i>	21
<i>Color Blindness Simulation</i>	24
<i>CSS Examples</i>	27

Color

CIELCh(68, 37.347, 196.523)

Conversions

Conversions Part 1

Format	Color
Hex	23B8B8
RGB	35, 184, 184
RGB Percent	14%, 72%, 72%
CMY	0.8611, 0.2796, 0.2796
CMYK	0.81, 0.00, 0.00, 0.28
HSL	180°, 68%, 43%
HSV	180°, 81%, 72%
XYZ	26.4081, 37.9720, 51.1251
YIQ	139.4490, -88.8040, -31.5880

Conversions

Conversions Part 2

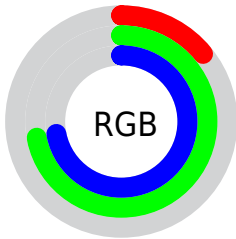
Format	Color
RYB	35, 110, 184
Decimal	2341048
CIELab	68.00, -35.80, -10.62
CIELCh	68, 37.347, 196.523
Yxy	37.9720, 0.2286, 0.3287
Android (android.graphics.Color)	4280531128 (0xFF23B8B8)
YUV	139.4490, 21.9636, -91.6018
Hunter-Lab	61.6215, -31.3408, -6.0558

Details

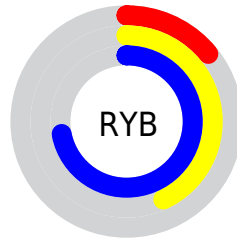
The CIELCh color **68, 37.347, 196.523** is a dark color, and the websafe version is hex **33CCCC**. A complement of this color would be **40, 69.017, 33.947**, and the grayscale version is **58, 0.007, 296.813**.

A 20% lighter version of the original color is **88, 37.578, 196.209**, and **49, 30.246, 197.538** is the 20% darker color. If you saturate the color by 10%, you get **68, 38.569, 196.432**, and if you desaturate by 10%, it is **68, 35.327, 196.671**.

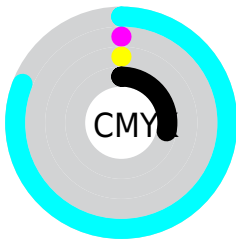
Distribution



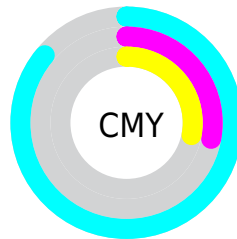
- Red (14%)
- Green (72%)
- Blue (72%)



- Red (14%)
- Yellow (43%)
- Blue (72%)



- Cyan (81%)
- Magenta (0%)
- Yellow (0%)
- Black (28%)





- Cyan (86%)
- Magenta (28%)
- Yellow (28%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 68, 37.347, 196.523 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, 37.347, 196.523 by changing the saturation by 10% instead.


 68, 37.347,
196.523


 68, 37.347,
196.523


 100, 37.347,
196.523


 58, 37.347,
196.523


 88, 37.347,
196.523

 48, 37.347,
196.523

 98, 37.347,
196.523

 38, 37.347,
196.523

 28, 37.347,
196.523

 18, 37.347,
196.523

 8, 37.347, 196.523

 0, 37.347, 196.523

■ 68, 37.347,
196.523

■ 68, 37.347,
196.523

■ 68, 38.569,
196.432

■ 68, 35.327,
196.671

■ 68, 39.174,
196.388

■ 69, 32.467,
196.884

■ 69, 28.777,
197.162

■ 70, 24.307,
197.505

■ 71, 19.140,
197.909

■ 72, 13.375,
198.372

■ 73, 7.122, 198.903

■ 75, 0.485, 200.436

Harmonies

Complementary

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



68, 37.347, 196.523



40, 69.017, 33.947

Rectangle

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



68, 37.347, 196.523



68, 37.347, 246.523



68, 37.347, 16.523



68, 37.347, 66.523

Sweetspot

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



68, 37.347, 196.522



91, 19.001, 198.194



65, 86.710, 137.114



48, 12.881, 198.031



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, 37.347, 196.522



86, 47.663, 196.398



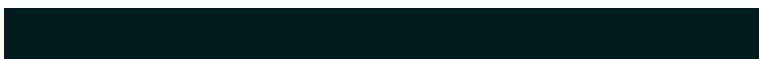
45, 45.697, 275.576



38, 3.777, 198.986



58, 34.643, 196.388



8, 10.518, 197.740

Inverse Universe

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



45, 84.520, 328.011



57, 109.764, 328.217



53, 56.212, 64.887



36, 6.910, 324.927



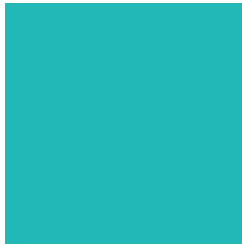
37, 79.889, 328.233



3, 18.823, 324.744

Previews

White Background



This preview shows how the CIELCh color 68, 37.347, 196.523 looks on a white background.

Color Contrast Check

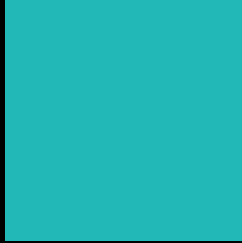
Large Text (above 18pt) WCAG AA × Fail

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, 37.347, 196.523 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

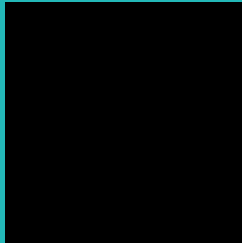
Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

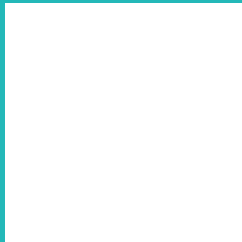
If you want to check with other color combinations, try the [Color Contrast Checker](#).

CIELCh 68, 37.347, 196.523

Background



This preview shows how black text looks on a background with the CIELCh color 68, 37.347, 196.523.

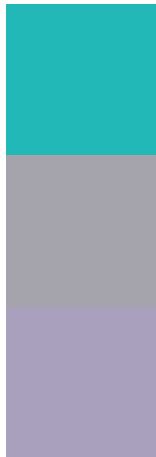


This preview shows how white text looks on a background with the CIELCh color 68, 37.347, 196.523.

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](#).

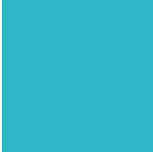
Dichromacy



Original Color
68, 37.435, 196.517

Protanopia
67, 4.495, 300.193

Deuteranopia
67, 16.407, 303.111

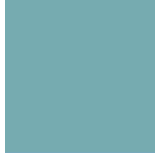


Tritanopia
68, 34.746, 210.812

Trichromacy



Original Color
68, 37.435, 196.517



Protanomaly
67, 18.062, 206.848



Deuteranomaly
66, 18.603, 230.903



Tritanomaly
68, 35.564, 204.847

Monochromacy



Original Color
68, 37.435, 196.517



Achromatopsia
58, 0.007, 296.813



Achromatomaly
60, 18.623, 197.752

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 68, 37.347, 196.523 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(35, 184, 184)` looks like.

```
.text, #text, p{  
    color:rgb(35, 184, 184)  
}
```

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(35, 184, 184) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(35, 184, 184) }
```

Border

The CSS property to change the border of an element to CIELCh 68, 37.347, 196.523 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(35, 184, 184) }
```

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

```
.border{ border-color:rgb(35, 184, 184) }
```

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

Here you see how a box with a 4 pixel `rgb(35, 184, 184)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(35, 184, 184); -webkit-box-  
shadow:4px 4px 4px 4px rgb(35, 184, 184);  
box-shadow:4px 4px 4px 4px rgb(35, 184,  
184) }
```

Background

The CSS property to change the background color of an element to CIELCh 68, 37.347, 196.523 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(35, 184, 184) }
```

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

```
.background{ background-color: rgb(35, 184,  
184) }
```

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