

Converting Colors

CIELCh(68, 63.976, 149.777)

Have a look what the booklet for
CIELCh(68, 63.976, 149.777)
contains.

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Color

CIELCh(68, 63.961, 149.861)

Conversions

Conversions Part 1

Format	Color
Hex	31BD69
RGB	49, 189, 105
RGB Percent	19%, 74%, 41%
CMY	0.8090, 0.2596, 0.5889
CMYK	0.74, 0.00, 0.44, 0.26
HSL	144°, 59%, 47%
HSV	144°, 74%, 74%
XYZ	21.9484, 37.9720, 19.4890
YIQ	137.5640, -56.4760, -55.8040

Conversions

Conversions Part 2

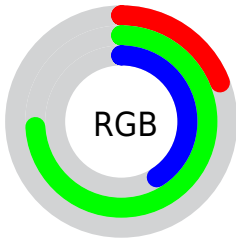
Format	Color
RYB	49, 149, 189
Decimal	3259753
CIELab	68.00, -55.31, 32.11
CIELCh	68, 63.961, 149.861
Yxy	37.9720, 0.2764, 0.4782
Android (android.graphics.Color)	4281449833 (0xFF31BD69)
YUV	137.5640, -16.0541, -77.6706
Hunter-Lab	61.6215, -44.2592, 24.3834

Details

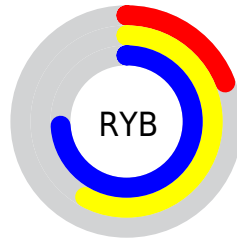
The CIELCh color **68, 63.961, 149.861** is a dark color, and the websafe version is hex **33CC66**. A complement of this color would be **45, 63.656, 346.764**, and the grayscale version is **57, 0.007, 296.813**.

A 20% lighter version of the original color is **88, 63.890, 149.838**, and **49, 58.965, 146.025** is the 20% darker color. If you saturate the color by 10%, you get **68, 70.140, 147.936**, and if you desaturate by 10%, it is **69, 56.923, 151.588**.

Distribution



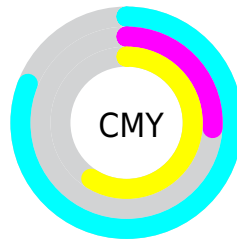
- Red (19%)
- Green (74%)
- Blue (41%)



- Red (19%)
- Yellow (58%)
- Blue (74%)



- Cyan (74%)
- Magenta (0%)
- Yellow (44%)
- Black (26%)




- Cyan (81%)
- Magenta (26%)
- Yellow (59%)


Brightness & Saturation Gradients


These gradients show how the CIELCh color 68, 63.961, 149.861 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, 63.961, 149.861 by changing the saturation by 10% instead.


 68, 63.961,
149.861

 68, 63.961,
149.861


 100, 63.961,
149.861


 58, 63.961,
149.861


 88, 63.961,
149.861

 48, 63.961,
149.861

 98, 63.961,
149.861

 38, 63.961,
149.861

 28, 63.961,
149.861

 18, 63.961,
149.861

 8, 63.961, 149.861

 0, 63.961, 149.861

■ 68, 63.961,
149.861

■ 68, 63.961,
149.861

■ 68, 70.140,
147.936

■ 69, 56.923,
151.588

■ 67, 75.430,
145.843

■ 69, 49.122,
153.114

■ 67, 78.191,
144.639

■ 70, 40.696,
154.453

■ 71, 31.808,
155.626

■ 73, 22.619,
156.656

■ 74, 13.277,
157.571

■ 76, 3.909, 158.436

■ 78, 5.386, 338.995

■ 80, 14.532,
339.680

Harmonies

Complementary

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



68, 63.961, 149.861



45, 63.656, 346.764

Rectangle

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



68, 63.961, 149.861



68, 63.961, 199.861



68, 63.961, 329.861



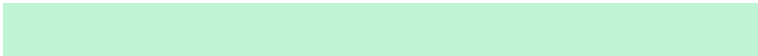
68, 63.961, 19.861

Sweetspot

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



68, 63.962, 149.861



92, 25.404, 156.833



71, 72.198, 122.612



49, 17.052, 156.573



98, 0.011, 296.813



51, 0.007, 296.813

Same Dimension

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



68, 63.962, 149.861



85, 89.376, 146.648



70, 39.496, 185.038



39, 5.290, 157.985



57, 68.089, 144.959



9, 17.698, 153.480

Inverse Universe

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



45, 63.656, 346.764



55, 83.697, 350.313



43, 61.549, 24.915



37, 5.333, 339.317



34, 61.253, 352.536



3, 14.860, 345.705

Previews

White Background



This preview shows how the CIELCh color 68, 63.961, 149.861 looks on a white background.

Color Contrast Check

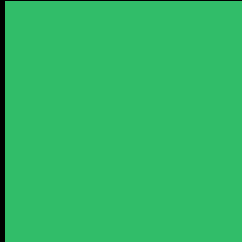
Large Text (above 18pt) WCAG AA × Fail

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, 63.961, 149.861 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, 63.961, 149.861

Background



This preview shows how black text looks on a background with the CIELCh color 68, 63.961, 149.861.

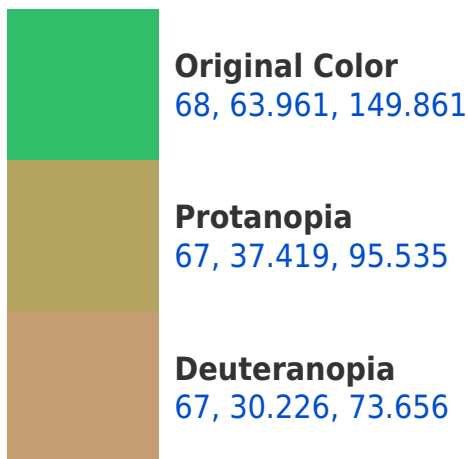


This preview shows how white text looks on a background with the CIELCh color 68, 63.961, 149.861.

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, 28.771, 213.035

Trichromacy



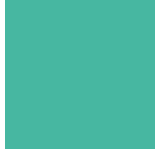
Original Color
68, 63.961, 149.861



Protanomaly
66, 43.191, 128.979



Deuteranomaly
66, 34.406, 125.614



Tritanomaly
68, 37.070, 177.260

Monochromacy



Original Color
68, 63.961, 149.861



Achromatopsia
57, 0.007, 296.813



Achromatomaly
60, 26.234, 155.468

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 68, 63.961, 149.861 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(49, 189, 105)` looks like.

```
.text, #text, p{  
    color:rgb(49, 189, 105)  
}
```

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(49, 189, 105) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 189, 105) }
```

Border

The CSS property to change the border of an element to CIELCh 68, 63.961, 149.861 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(49, 189, 105) }
```

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

```
.border{ border-color:rgb(49, 189, 105) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 189, 105)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 189, 105); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 189, 105);  
box-shadow:4px 4px 4px 4px rgb(49, 189,  
105) }
```

Background

The CSS property to change the background color of an element to CIELCh 68, 63.961, 149.861 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 189, 105) }
```

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

```
.background{ background-color: rgb(49, 189,  
105) }
```

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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