

Converting Colors

CIELCh(68, 60.861, 103.305)

Have a look what the booklet for
CIELCh(68, 60.861, 103.305)
contains.

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Color

CIELCh(68, 60.985, 103.489)

Conversions

Conversions Part 1

Format	Color
Hex	ACAB31
RGB	172, 171, 49
RGB Percent	67%, 67%, 19%
CMY	0.3267, 0.3305, 0.8090
CMYK	0.00, 0.01, 0.72, 0.33
HSL	60°, 56%, 43%
HSV	60°, 72%, 67%
XYZ	32.0023, 37.9720, 8.5143
YIQ	157.3910, 39.7580, -37.7300

Conversions

Conversions Part 2

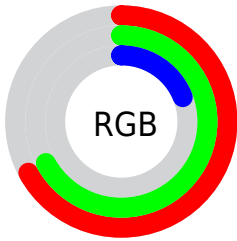
Format	Color
RYB	50, 172, 49
Decimal	11316017
CIELab	68.00, -14.23, 59.30
CIElCh	68, 60.985, 103.489
Yxy	37.9720, 0.4077, 0.4838
Android (android.graphics.Color)	4289506097 (0xFFACAB31)
YUV	157.3910, -53.4368, 12.8121
Hunter-Lab	61.6215, -15.1360, 34.9429

Details

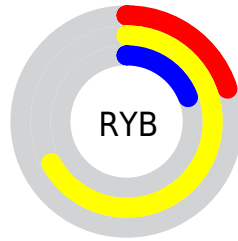
The CIELCh color **68, 60.985, 103.489** is a dark color, and the websafe version is hex **999900**. A complement of this color would be **29, 76.336, 301.737**, and the grayscale version is **65, 0.008, 296.813**.

A 20% lighter version of the original color is **88, 60.723, 103.515**, and **48, 55.197, 104.355** is the 20% darker color. If you saturate the color by 10%, you get **68, 66.331, 102.938**, and if you desaturate by 10%, it is **68, 54.202, 104.193**.

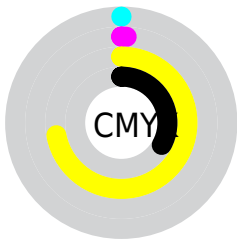
Distribution



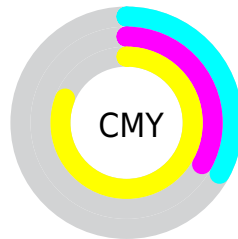
- Red (67%)
- Green (67%)
- Blue (19%)



- Red (20%)
- Yellow (67%)
- Blue (19%)



- Cyan (0%)
- Magenta (1%)
- Yellow (72%)
- Black (33%)



- Cyan (33%)
- Magenta (33%)
- Yellow (81%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 68, 60.985, 103.489 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, 60.985, 103.489 by changing the saturation by 10% instead.

 68, 60.985,
103.489

 68, 60.985,
103.489

 100, 60.985,
103.489

 58, 60.985,
103.489


 88, 60.985,
103.489

 48, 60.985,
103.489

 98, 60.985,
103.489

 38, 60.985,
103.489

 28, 60.985,
103.489

 18, 60.985,
103.489

 8, 60.985, 103.489

 0, 60.985, 103.489

■ 68, 60.985,
103.489

■ 68, 60.985,
103.489

■ 68, 66.331,
102.938

■ 68, 54.202,
104.193

■ 68, 69.846,
102.563

■ 68, 46.412,
105.006

■ 68, 71.624,
102.358

■ 69, 37.967,
105.895

■ 69, 29.117,
106.830

■ 69, 20.026,
107.787

■ 70, 10.803,
108.749

■ 70, 1.516, 109.669

■ 71, 7.791, 290.650

■ 71, 17.087,
291.552

Harmonies

Complementary

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



68, 60.985, 103.489



29, 76.336, 301.737

Rectangle

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



68, 60.985, 103.489



68, 60.985, 153.489



68, 60.985, 283.489



68, 60.985, 333.489

Sweetspot

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



68, 60.985, 103.491



88, 24.167, 107.812



40, 57.270, 29.596



47, 16.317, 107.557



95, 0.011, 296.813



47, 0.006, 296.813

Same Dimension

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



68, 60.985, 103.491



86, 83.836, 102.693



64, 66.754, 125.719



37, 5.299, 108.971



60, 64.995, 102.363



7, 11.210, 109.706

Inverse Universe

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



29, 76.336, 301.737



31, 112.188, 304.790



35, 74.723, 312.004



33, 5.413, 290.817



17, 89.868, 306.164



1, 11.273, 289.921

Previews

White Background



This preview shows how the CIELCh color 68, 60.985, 103.489 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, 60.985, 103.489 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, 60.985, 103.489

Background



This preview shows how black text looks on a background with the CIELCh color 68, 60.985, 103.489.



This preview shows how white text looks on a background with the CIELCh color 68, 60.985, 103.489.

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, 60.985, 103.489

Protanopia

68, 60.572, 95.280

Deuteranopia

68, 58.830, 81.419



Tritanopia
68, 11.311, 341.259

Trichromacy



Original Color
68, 60.985, 103.489

Protanomaly
68, 60.523, 98.342

Deuteranomaly
68, 58.449, 89.701

Tritanomaly
67, 20.716, 90.577

Monochromacy



Original Color
68, 60.985, 103.489

Achromatopsia
65, 0.008, 296.813

Achromatomaly
66, 24.090, 107.602

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 68, 60.985, 103.489 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(172, 171, 49)` looks like.

```
.text, #text, p{  
    color:rgb(172, 171, 49)  
}
```

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(172, 171, 49) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(172, 171, 49) }
```

Border

The CSS property to change the border of an element to CIELCh 68, 60.985, 103.489 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(172, 171, 49) }
```

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

```
.border{ border-color:rgb(172, 171, 49) }
```

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

Here you see how a box with a 4 pixel `rgb(172, 171, 49)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(172, 171, 49); -webkit-box-  
shadow:4px 4px 4px 4px rgb(172, 171, 49);  
box-shadow:4px 4px 4px 4px rgb(172, 171,  
49) }
```

Background

The CSS property to change the background color of an element to CIELCh 68, 60.985, 103.489 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(172, 171, 49) }
```

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

```
.background{ background-color: rgb(172,  
171, 49) }
```

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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