

Converting Colors

CIELCh(12, 68.184, 313.812)

Have a look what the booklet for
CIELCh(12, 68.184, 313.812)
contains.

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Color

CIELCh(13, 63.431, 312.310)

Conversions

Conversions Part 1

Format	Color
Hex	310065
RGB	49, 0, 101
RGB Percent	19%, 0%, 40%
CMY	0.8088, 1.0000, 0.6045
CMYK	0.52, 1.00, 0.00, 0.60
HSL	269°, 100%, 20%
HSV	269°, 100%, 40%
XYZ	3.5860, 1.5625, 12.3865
YIQ	26.1650, -3.2170, 41.7990

Conversions

Conversions Part 2

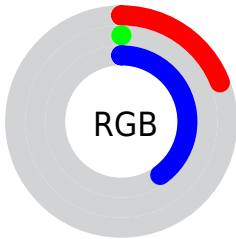
Format	Color
R_{YB}	49, 0, 101
Decimal	3211365
CIE _{Lab}	13.00, 42.70, -46.91
CIE _{LCh}	13, 63.431, 312.310
Yxy	1.5625, 0.2045, 0.0891
Android (android.graphics.Color)	4281401445 (0xFF310065)
YUV	26.1650, 36.8937, 20.0263
Hunter-Lab	12.5000, 29.3333, -50.0019

Details

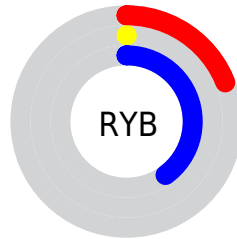
The CIELCh color **13, 63.431, 312.310** is a dark color, and the websafe version is hex **330066**. A complement of this color would be **38, 54.448, 126.536**, and the grayscale version is **9, 0.003, 296.813**.

A 20% lighter version of the original color is **33, 63.164, 312.125**, and **2, 35.289, 297.538** is the 20% darker color. If you saturate the color by 10%, you get **13, 63.006, 312.176**, and if you desaturate by 10%, it is **15, 58.396, 312.121**.

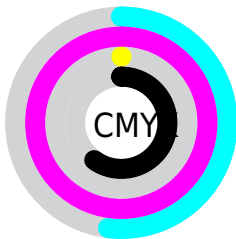
Distribution



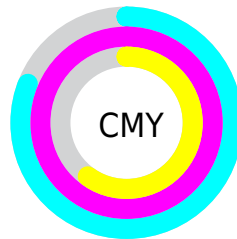
- Red (19%)
- Green (0%)
- Blue (40%)



- Red (19%)
- Yellow (0%)
- Blue (40%)



- Cyan (52%)
- Magenta (100%)
- Yellow (0%)
- Black (60%)





- Cyan (81%)
- Magenta (100%)
- Yellow (60%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 13, 63.431, 312.310 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 13, 63.431, 312.310 by changing the saturation by 10% instead.

 13, 63.431,
312.310


 13, 63.431,
312.310


 100, 63.431,
312.310


 3, 63.431, 312.310


 33, 63.431,
312.310

 0, 63.431, 312.310

 43, 63.431,
312.310


 53, 63.431,
312.310


 63, 63.431,
312.310


 73, 63.431,
312.310


 83, 63.431,


312.310


 93, 63.431,
312.310


 13, 63.431,
312.310


 13, 63.431,
312.310


 13, 63.006,
312.176

 15, 58.396,
312.121

 17, 53.495,
312.103

 20, 47.538,
311.839

 23, 40.944,
311.421

 26, 34.034,
310.924

■ 29, 27.027,
310.397

■ 33, 20.059,
309.874

■ 36, 13.208,
309.373

■ 39, 6.517, 308.903

Harmonies

Complementary

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



13, 63.431, 312.310



38, 54.448, 126.536

Rectangle

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



13, 63.431, 312.310



13, 63.431, 2.310



13, 63.431, 132.310



13, 63.431, 182.310

Sweetspot

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



13, 63.006, 312.176



42, 24.745, 309.918



22, 33.476, 279.460



20, 17.071, 310.073



78, 0.009, 296.813



28, 0.004, 296.813

Same Dimension

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



13, 63.006, 312.176



19, 75.745, 311.860



22, 58.543, 327.611



19, 3.687, 308.855



16, 69.142, 312.006



38, 120.685, 311.336

Inverse Universe

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



20, 43.325, 357.945



27, 51.749, 359.134



37, 60.519, 135.876



20, 3.012, 343.404



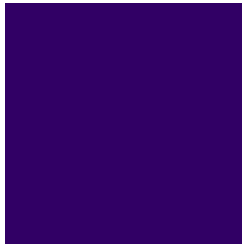
23, 47.378, 358.576



52, 81.636, 1.212

Previews

White Background



This preview shows how the CIE LCh color 13, 63.431, 312.310 looks on a white background.

Color Contrast Check

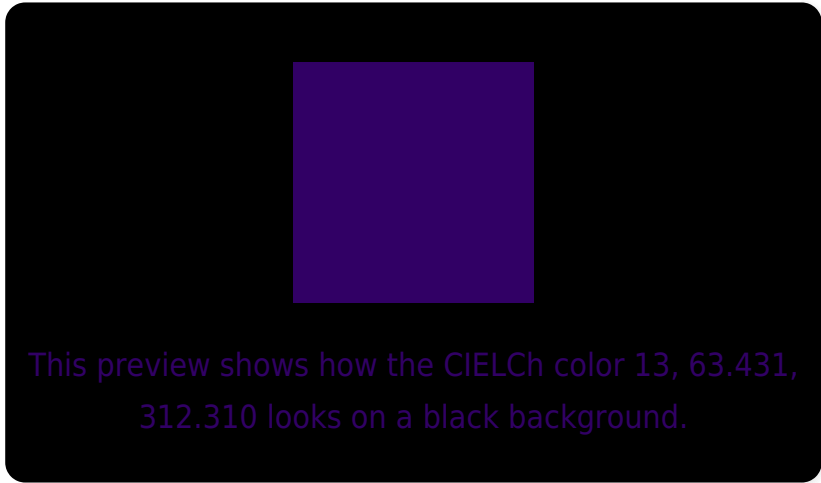
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

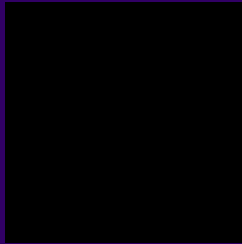
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 13, 63.431, 312.310

Background



This preview shows how black text looks on a background with the CIELCh color 13, 63.431, 312.310.



This preview shows how white text looks on a background with the CIELCh color 13, 63.431, 312.310.

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

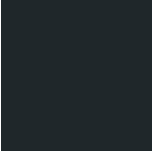
13, 63.050, 312.211

Protanopia

15, 28.727, 281.266

Deuteranopia

15, 20.760, 266.912



Tritanopia
15, 4.128, 229.786

Trichromacy



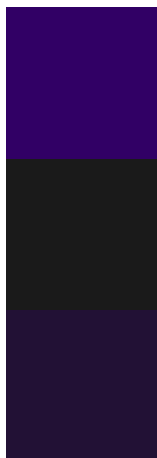
Original Color
13, 63.050, 312.211

Protanomaly
12, 43.912, 299.554

Deuteranomaly
12, 38.613, 297.883

Tritanomaly
12, 27.645, 306.293

Monochromacy



Original Color
13, 63.050, 312.211

Achromatopsia
9, 0.003, 296.813

Achromatomaly
9, 27.116, 311.146

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 13, 63.431, 312.310 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, 0, 101)` looks like.

```
.text, #text, p{  
    color:rgb(49, 0, 101)  
}
```

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, 0, 101) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(49, 0, 101) }
```

Border

The CSS property to change the border of an element to CIELCh 13, 63.431, 312.310 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, 0, 101) }
```

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

```
.border{ border-color:rgb(49, 0, 101) }
```

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

Here you see how a box with a 4 pixel `rgb(49, 0, 101)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(49, 0, 101); -webkit-box-  
shadow:4px 4px 4px 4px rgb(49, 0, 101);  
box-shadow:4px 4px 4px 4px rgb(49, 0, 101)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 13, 63.431, 312.310 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(49, 0, 101) }
```

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

```
.background{ background-color: rgb(49, 0,  
101) }
```

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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