

Converting Colors

CIELCh(13, 63.655, 311.048)

Have a look what the booklet for
CIELCh(13, 63.655, 311.048)
contains.

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Color

CIELCh(13, 63.623, 311.120)

Conversions

Conversions Part 1

Format	Color
Hex	2D0166
RGB	45, 1, 102
RGB Percent	18%, 0%, 40%
CMY	0.8219, 0.9948, 0.5985
CMYK	0.56, 0.99, 0.00, 0.60
HSL	266°, 97%, 20%
HSV	266°, 99%, 40%
XYZ	3.5313, 1.5625, 12.7823
YIQ	25.6700, -6.1970, 40.7390

Conversions

Conversions Part 2

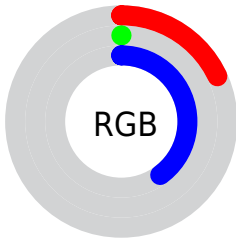
Format	Color
R _{YB}	45, 1, 102
Decimal	2949478
CIE Lab	13.00, 41.84, -47.93
CIE LCh	13, 63.623, 311.120
Yxy	1.5625, 0.1975, 0.0874
Android (android.graphics.Color)	4281139558 (0xFF2D0166)
YUV	25.6700, 37.6307, 16.9524
Hunter-Lab	12.5000, 28.5521, -51.8790

Details

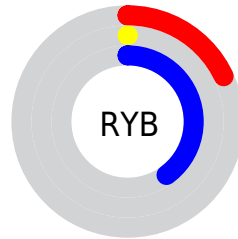
The CIELCh color **13, 63.623, 311.120** is a dark color, and the websafe version is hex **330066**. A complement of this color would be **39, 53.805, 124.828**, and the grayscale version is **9, 0.003, 296.813**.

A 20% lighter version of the original color is **33, 63.720, 311.176**, and **2, 36.099, 297.925** is the 20% darker color. If you saturate the color by 10%, you get **13, 64.295, 311.166**, and if you desaturate by 10%, it is **15, 58.891, 311.019**.

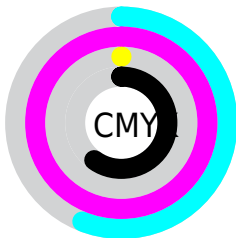
Distribution



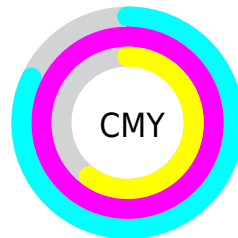
- Red (18%)
- Green (0%)
- Blue (40%)



- Red (18%)
- Yellow (0%)
- Blue (40%)



- Cyan (56%)
- Magenta (99%)
- Yellow (0%)
- Black (60%)





- Cyan (82%)
- Magenta (99%)
- Yellow (60%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 13, 63.623, 311.120 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, 63.623, 311.120 by changing the saturation by 10% instead.

 13, 63.623,
311.120


 13, 63.623,
311.120


 100, 63.623,
311.120


 3, 63.623, 311.120


 33, 63.623,
311.120

 0, 63.623, 311.120

 43, 63.623,
311.120


 53, 63.623,
311.120


 63, 63.623,
311.120


 73, 63.623,
311.120

 83, 63.623,


311.120


 93, 63.623,
311.120


 13, 63.623,
311.120


 13, 63.623,
311.120


 13, 64.295,
311.166

 15, 58.891,
311.019

 17, 53.598,
310.872

 20, 47.318,
310.490

 23, 40.484,
309.972

 27, 33.411,
309.393

■ 30, 26.300,
308.802

■ 33, 19.271,
308.230

■ 37, 12.390,
307.692

■ 40, 5.689, 307.195

Harmonies

Complementary

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



13, 63.623, 311.120



39, 53.805, 124.828

Rectangle

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



13, 63.623, 311.120



13, 63.623, 1.120



13, 63.623, 131.120



13, 63.623, 181.120

Sweetspot

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



13, 63.623, 311.121



42, 24.970, 308.349



24, 30.396, 273.233



19, 16.960, 308.516



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, 63.623, 311.121



18, 77.586, 310.853



22, 58.979, 325.762



19, 3.654, 307.205



15, 69.814, 311.019



37, 121.911, 310.362

Inverse Universe

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



21, 44.222, 353.722



28, 53.236, 355.048



37, 60.421, 135.571



20, 3.111, 340.981



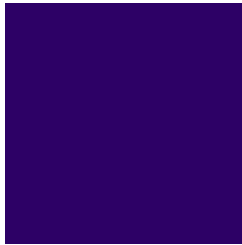
24, 48.101, 354.497



53, 82.650, 356.773

Previews

White Background



This preview shows how the CIELCh color 13, 63.623, 311.120 looks on a white background.

Color Contrast Check

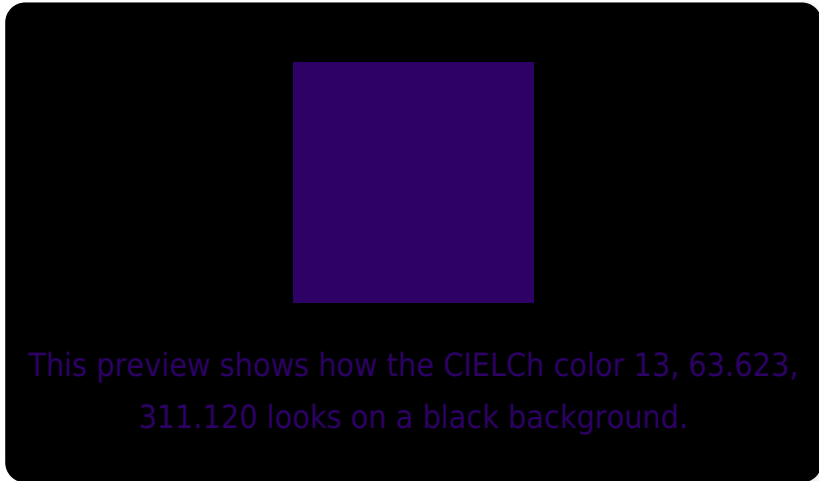
Large Text (above 18pt) WCAG AA ✓ Pass

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

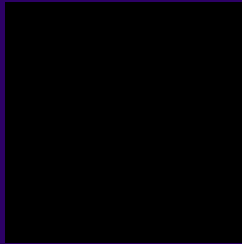
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 13, 63.623, 311.120

Background



This preview shows how black text looks on a background with the CIELCh color 13, 63.623, 311.120.



This preview shows how white text looks on a background with the CIELCh color 13, 63.623, 311.120.

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, 63.623, 311.120

Protanopia

14, 28.780, 281.828

Deuteranopia

15, 20.202, 265.486



Tritanopia
15, 7.040, 215.697

Trichromacy



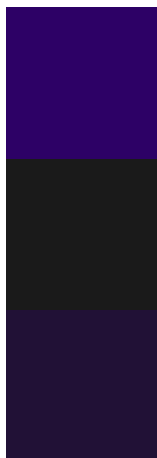
Original Color
13, 63.623, 311.120

Protanomaly
12, 44.674, 299.870

Deuteranomaly
12, 38.638, 297.615

Tritanomaly
12, 28.171, 301.842

Monochromacy



Original Color
13, 63.623, 311.120

Achromatopsia
9, 0.003, 296.813

Achromatomaly
9, 27.757, 310.030

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 13, 63.623, 311.120 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(45, 1, 102)` looks like.

```
.text, #text, p{  
    color:rgb(45, 1, 102)  
}
```

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(45, 1, 102) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 1, 102) }
```

Border

The CSS property to change the border of an element to CIELCh 13, 63.623, 311.120 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(45, 1, 102) }
```

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

```
.border{ border-color:rgb(45, 1, 102) }
```

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

Here you see how a box with a 4 pixel rgb(45, 1, 102) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 1, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 1, 102);  
box-shadow:4px 4px 4px 4px rgb(45, 1, 102)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 13, 63.623, 311.120 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 1, 102) }
```

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

```
.background{ background-color: rgb(45, 1,  
102) }
```

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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