

Converting Colors

CIELCh(13, 63.555, 311.036)

Have a look what the booklet for
CIELCh(13, 63.555, 311.036)
contains.

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Color

CIELCh(13, 63.185, 310.973)

Conversions

Conversions Part 1

Format	Color
Hex	2D0266
RGB	45, 2, 102
RGB Percent	18%, 1%, 40%
CMY	0.8234, 0.9921, 0.5999
CMYK	0.56, 0.98, 0.00, 0.60
HSL	266°, 96%, 20%
HSV	266°, 98%, 40%
XYZ	3.5053, 1.5625, 12.6950
YIQ	26.2570, -6.4720, 40.2160

Conversions

Conversions Part 2

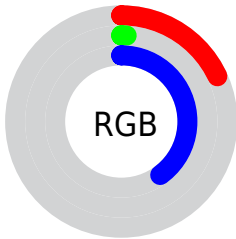
Format	Color
RYB	45, 2, 102
Decimal	2949734
CIELab	13.00, 41.43, -47.71
CIELCh	13, 63.185, 310.973
Yxy	1.5625, 0.1973, 0.0880
Android (android.graphics.Color)	4281139814 (0xFF2D0266)
YUV	26.2570, 37.3413, 16.4376
Hunter-Lab	12.5000, 28.1810, -51.4648




Details

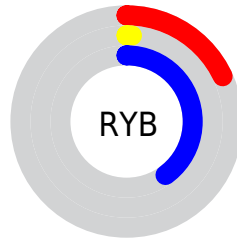
The CIELCh color **13, 63.185, 310.973** is a dark color, and the websafe version is hex **330066**. A complement of this color would be **39, 53.340, 124.559**, and the grayscale version is **9, 0.003, 296.813**.



A 20% lighter version of the original color is **33, 63.129, 310.999**, and **2, 36.099, 297.925** is the 20% darker color. If you saturate the color by 10%, you get **13, 64.223, 311.045**, and if you desaturate by 10%, it is **15, 58.457, 310.873**.

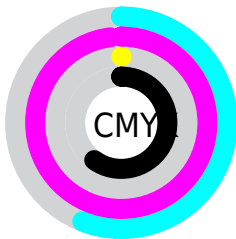
Distribution







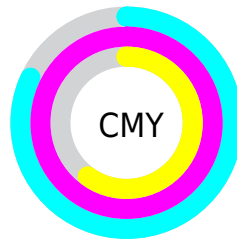
-  Red (18%)
-  Green (1%)
-  Blue (40%)






-  Red (18%)
-  Yellow (1%)
-  Blue (40%)



-  Cyan (56%)
-  Magenta (98%)
-  Yellow (0%)
-  Black (60%)





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


Brightness & Saturation Gradients

These gradients show how the CIELCh color 13, 63.185, 310.973 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, 63.185, 310.973 by changing the saturation by 10% instead.

 13, 63.185,
310.973


 13, 63.185,
310.973


 100, 63.185,
310.973


 3, 63.185, 310.973


 33, 63.185,
310.973

 0, 63.185, 310.973

 43, 63.185,
310.973


 53, 63.185,
310.973


 63, 63.185,
310.973


 73, 63.185,
310.973


 83, 63.185,


310.973


 93, 63.185,
310.973


 13, 63.185,
310.973


 13, 63.185,
310.973


 13, 64.223,
311.045

 15, 58.457,
310.873

 18, 53.066,
310.692

 20, 46.729,
310.282

 23, 39.873,
309.745

 27, 32.804,
309.153

■ 30, 25.714,
308.554

■ 33, 18.715,
307.977

■ 37, 11.869,
307.437

■ 40, 5.206, 306.938

Harmonies

Complementary

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



13, 63.185, 310.973



39, 53.340, 124.559

Rectangle

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



13, 63.185, 310.973



13, 63.185, 0.973



13, 63.185, 130.973



13, 63.185, 180.973

Sweetspot

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



13, 63.185, 310.974



43, 24.085, 308.079



24, 29.190, 270.774



20, 16.456, 308.253



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, 63.185, 310.974



18, 77.687, 310.729



21, 58.710, 325.161



19, 3.650, 306.982



15, 69.904, 310.894



37, 122.073, 310.240

Inverse Universe

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



21, 44.104, 353.034



28, 53.363, 354.505



37, 59.953, 135.491



20, 3.125, 340.669



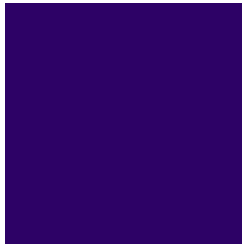
24, 48.219, 353.966



53, 82.829, 356.193

Previews

White Background



This preview shows how the CIE LCh color 13, 63.185, 310.973 looks on a white background.

Color Contrast Check

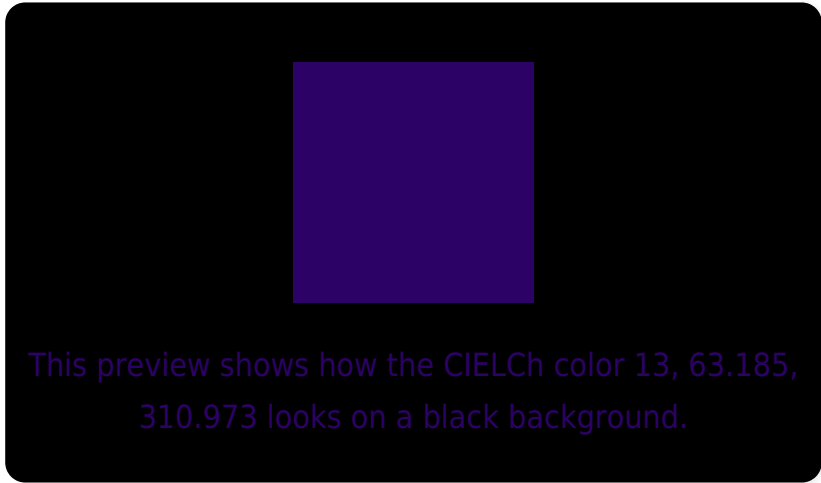
Large Text (above 18pt) WCAG AA ✓ Pass

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

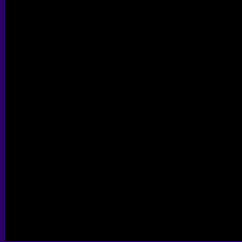
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 13, 63.185, 310.973

Background



This preview shows how black text looks on a background with the CIELCh color 13, 63.185, 310.973.



This preview shows how white text looks on a background with the CIELCh color 13, 63.185, 310.973.

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, 63.185, 310.973

Protanopia

14, 28.780, 281.828

Deuteranopia

14, 20.170, 266.208



Tritanopia
15, 7.040, 215.697

Trichromacy



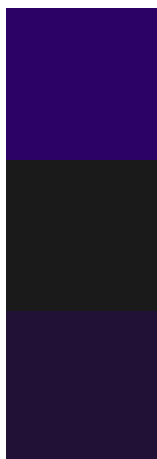
Original Color
13, 63.185, 310.973

Protanomaly
12, 43.326, 298.997

Deuteranomaly
12, 38.001, 297.158

Tritanomaly
12, 27.488, 301.851

Monochromacy



Original Color
13, 63.185, 310.973

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, 63.185, 310.973 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, 2, 102)` looks like.

```
.text, #text, p{  
    color:rgb(45, 2, 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, 2, 102) colored shadow looks like.

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

Border

The CSS property to change the border of an element to CIELCh 13, 63.185, 310.973 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, 2, 102) }
```

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

```
.border{ border-color:rgb(45, 2, 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, 2, 102)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 2, 102); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 2, 102);  
box-shadow:4px 4px 4px 4px rgb(45, 2, 102)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 13, 63.185, 310.973 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 2, 102) }
```

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

```
.background{ background-color: rgb(45, 2,  
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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