

Converting Colors

CIELCh(13, 71.806, 308.563)

Have a look what the booklet for
CIELCh(13, 71.806, 308.563)
contains.

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Color

CIELCh(13, 71.936, 308.543)

Conversions

Conversions Part 1

Format	Color
Hex	210073
RGB	33, 0, 115
RGB Percent	13%, 0%, 45%
CMY	0.8705, 0.9999, 0.5489
CMYK	0.71, 1.00, 0.00, 0.55
HSL	257°, 100%, 23%
HSV	257°, 100%, 45%
XYZ	3.7241, 1.5625, 16.3316
YIQ	22.9770, -17.2470, 42.7610

Conversions

Conversions Part 2

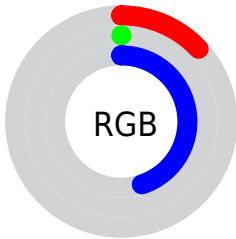
Format	Color
RYB	33, 0, 115
Decimal	2162803
CIELab	13.00, 44.82, -56.26
CIELCh	13, 71.936, 308.543
Yxy	1.5625, 0.1723, 0.0723
Android (android.graphics.Color)	4280352883 (0xFF210073)
YUV	22.9770, 45.3673, 8.7902
Hunter-Lab	12.5000, 31.3052, -68.7142

Details

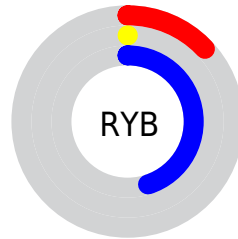
The CIELCh color **13, 71.936, 308.543** is a dark color, and the websafe version is hex **000066**. A complement of this color would be **44, 56.371, 118.663**, and the grayscale version is **8, 0.002, 296.812**.

A 20% lighter version of the original color is **33, 71.969, 308.697**, and **3, 45.137, 302.173** is the 20% darker color. If you saturate the color by 10%, you get **13, 71.944, 308.545**, and if you desaturate by 10%, it is **15, 66.572, 308.073**.

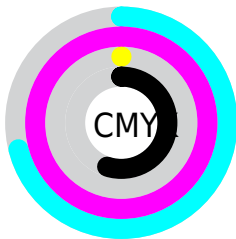
Distribution



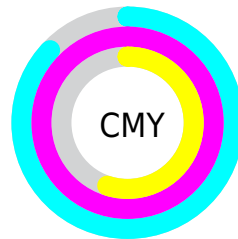
- Red (13%)
- Green (0%)
- Blue (45%)



- Red (13%)
- Yellow (0%)
- Blue (45%)



- Cyan (71%)
- Magenta (100%)
- Yellow (0%)
- Black (55%)





- Cyan (87%)
- Magenta (100%)
- Yellow (55%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 13, 71.936, 308.543 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, 71.936, 308.543 by changing the saturation by 10% instead.

 13, 71.936,
308.543


 13, 71.936,
308.543


 100, 71.936,
308.543


 3, 71.936, 308.543


 33, 71.936,
308.543

 0, 71.936, 308.543

 43, 71.936,
308.543


 53, 71.936,
308.543


 63, 71.936,
308.543


 73, 71.936,
308.543


 83, 71.936,


308.543


 93, 71.936,
308.543


 13, 71.936,
308.543


 13, 71.936,
308.543

 13, 71.944,
308.545

 15, 66.572,
308.073

 18, 60.498,
307.573

 21, 53.252,
306.801

 25, 45.442,
305.905

 29, 37.466,
304.986

■ 32, 29.551,
304.102

■ 36, 21.810,
303.285

■ 40, 14.296,
302.547

■ 44, 7.025, 301.889

Harmonies

Complementary

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



13, 71.936, 308.543



44, 56.371, 118.663

Rectangle

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



13, 71.936, 308.543



13, 71.936, 358.543



13, 71.936, 128.543



13, 71.936, 178.543

Sweetspot

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



13, 71.937, 308.544



47, 27.224, 303.347



33, 26.102, 250.652



22, 18.820, 303.614



82, 0.010, 296.813



33, 0.005, 296.813

Same Dimension

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



13, 71.937, 308.544



19, 87.626, 308.305



22, 65.504, 320.433



22, 4.017, 301.831



14, 75.276, 308.483



35, 128.441, 308.002

Inverse Universe

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



24, 52.119, 343.103



33, 62.980, 343.618



42, 64.787, 134.000



23, 3.891, 334.313



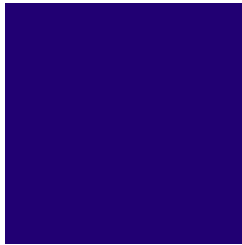
26, 54.425, 343.233



56, 91.346, 344.334

Previews

White Background



This preview shows how the CIELCh color 13, 71.936, 308.543 looks on a white background.

Color Contrast Check

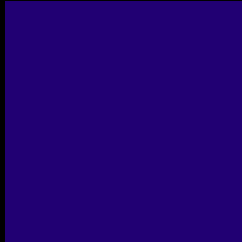
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



This preview shows how the CIELCh color 13, 71.936, 308.543 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

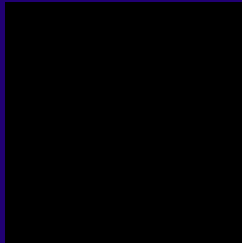
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 13, 71.936, 308.543

Background



This preview shows how black text looks on a background with the CIELCh color 13, 71.936, 308.543.



This preview shows how white text looks on a background with the CIELCh color 13, 71.936, 308.543.

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, 71.936, 308.543

Protanopia

14, 29.424, 282.516

Deuteranopia

15, 20.202, 265.486



Tritanopia
15, 13.965, 202.420

Trichromacy



Original Color
13, 71.936, 308.543

Protanomaly
12, 47.968, 299.700

Deuteranomaly
12, 41.379, 297.287

Tritanomaly
11, 31.156, 292.148

Monochromacy



Original Color
13, 71.936, 308.543

Achromatopsia
8, 0.002, 296.812

Achromatomaly
8, 30.609, 306.555

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 13, 71.936, 308.543 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(33, 0, 115)` looks like.

```
.text, #text, p{  
    color:rgb(33, 0, 115)  
}
```

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(33, 0, 115) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 0, 115) }
```

Border

The CSS property to change the border of an element to CIELCh 13, 71.936, 308.543 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(33, 0, 115) }
```

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

```
.border{ border-color:rgb(33, 0, 115) }
```

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

Here you see how a box with a 4 pixel `rgb(33, 0, 115)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 0, 115); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 0, 115);  
box-shadow:4px 4px 4px 4px rgb(33, 0, 115)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 13, 71.936, 308.543 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(33, 0, 115) }
```

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

```
.background{ background-color: rgb(33, 0,  
115) }
```

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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