

Converting Colors

CIELCh(13, 72.881, 308.627)

Have a look what the booklet for
CIELCh(13, 72.881, 308.627)
contains.

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Color

CIELCh(13, 72.420, 308.502)

Conversions

Conversions Part 1

Format	Color
Hex	210074
RGB	33, 0, 116
RGB Percent	13%, 0%, 45%
CMY	0.8724, 1.0000, 0.5465
CMYK	0.72, 1.00, 0.00, 0.55
HSL	257°, 100%, 23%
HSV	257°, 100%, 45%
XYZ	3.7413, 1.5625, 16.5218
YIQ	23.0910, -17.5680, 43.0720

Conversions

Conversions Part 2

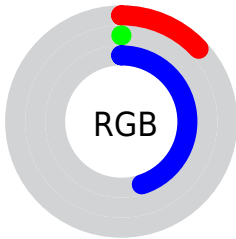
Format	Color
R_{YB}	33, 0, 116
Decimal	2162804
CIE _{Lab}	13.00, 45.08, -56.67
CIE _{LCh}	13, 72.420, 308.502
Yxy	1.5625, 0.1714, 0.0716
Android (android.graphics.Color)	4280352884 (0xFF210074)
YUV	23.0910, 45.8041, 8.6902
Hunter-Lab	12.5000, 31.5508, -69.6161

Details

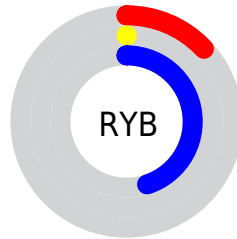
The CIELCh color **13, 72.420, 308.502** is a dark color, and the websafe version is hex **000066**. A complement of this color would be **45, 56.505, 118.389**, and the grayscale version is **7, 0.002, 296.812**.

A 20% lighter version of the original color is **33, 72.506, 308.636**, and **4, 45.936, 302.483** is the 20% darker color. If you saturate the color by 10%, you get **13, 72.302, 308.463**, and if you desaturate by 10%, it is **15, 66.920, 307.978**.

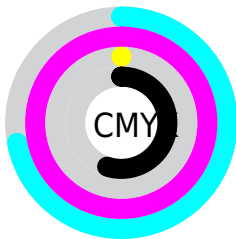
Distribution



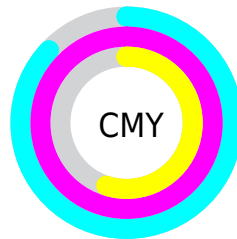
- Red (13%)
- Green (0%)
- Blue (45%)



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



- Cyan (72%)
- Magenta (100%)
- Yellow (0%)
- Black (55%)





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


Brightness & Saturation Gradients

These gradients show how the CIELCh color 13, 72.420, 308.502 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, 72.420, 308.502 by changing the saturation by 10% instead.

 13, 72.420,
308.502

 13, 72.420,
308.502


 100, 72.420,
308.502


 3, 72.420, 308.502


 33, 72.420,
308.502

 0, 72.420, 308.502

 43, 72.420,
308.502


 53, 72.420,
308.502


 63, 72.420,
308.502


 73, 72.420,
308.502

 83, 72.420,


308.502


 93, 72.420,
308.502


 13, 72.420,
308.502


 13, 72.420,
308.502


 13, 72.302,
308.463

 15, 66.920,
307.978

 18, 60.808,
307.458

 21, 53.515,
306.667

 25, 45.657,
305.752

 29, 37.637,
304.816

■ 33, 29.682,
303.918

■ 37, 21.906,
303.089

■ 41, 14.360,
302.341

■ 45, 7.060, 301.675

Harmonies

Complementary

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



13, 72.420, 308.502



45, 56.505, 118.389

Rectangle

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



13, 72.420, 308.502



13, 72.420, 358.502



13, 72.420, 128.502



13, 72.420, 178.502

Sweetspot

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



13, 72.302, 308.463



47, 27.209, 303.150



33, 25.691, 247.457



22, 18.811, 303.420



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, 72.302, 308.463



19, 87.711, 308.232



21, 65.927, 319.875



22, 4.014, 301.616



14, 75.350, 308.407



34, 128.562, 307.932

Inverse Universe

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



25, 52.518, 342.721



33, 63.222, 343.208



42, 64.847, 133.760



23, 3.907, 334.079



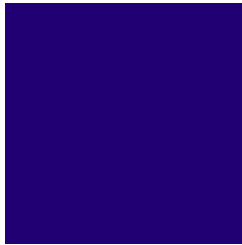
26, 54.633, 342.834



56, 91.702, 343.902

Previews

White Background



This preview shows how the CIELCh color 13, 72.420, 308.502 looks on a white background.

Color Contrast Check

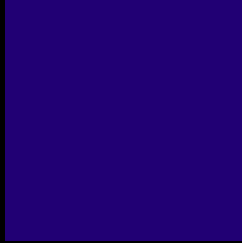
Large Text (above 18pt) WCAG AA ✓ Pass

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, 72.420, 308.502 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

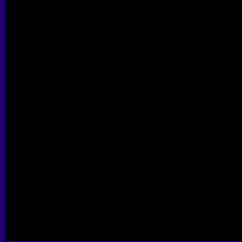
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 13, 72.420, 308.502

Background



This preview shows how black text looks on a background with the CIELCh color 13, 72.420, 308.502.



This preview shows how white text looks on a background with the CIELCh color 13, 72.420, 308.502.

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, 72.420, 308.502

Protanopia

15, 28.727, 281.266

Deuteranopia

15, 20.202, 265.486



Tritanopia
15, 13.965, 202.420

Trichromacy



Original Color
13, 72.420, 308.502

Protanomaly
13, 47.244, 299.212

Deuteranomaly
12, 41.379, 297.287

Tritanomaly
11, 31.156, 292.148

Monochromacy



Original Color
13, 72.420, 308.502

Achromatopsia
8, 0.002, 296.812

Achromatomaly
8, 31.297, 305.848

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 13, 72.420, 308.502 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, 116)` looks like.

```
.text, #text, p{  
    color:rgb(33, 0, 116)  
}
```

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, 116) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(33, 0, 116) }
```

Border

The CSS property to change the border of an element to CIELCh 13, 72.420, 308.502 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, 116) }
```

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

```
.border{ border-color:rgb(33, 0, 116) }
```

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, 116)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(33, 0, 116); -webkit-box-  
shadow:4px 4px 4px 4px rgb(33, 0, 116);  
box-shadow:4px 4px 4px 4px rgb(33, 0, 116)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 13, 72.420, 308.502 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, 116) }
```

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

```
.background{ background-color: rgb(33, 0,  
116) }
```

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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