

Converting Colors

CIELCh(13, 72.115, 308.235)

Have a look what the booklet for
CIELCh(13, 72.115, 308.235)
contains.

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Color

CIELCh(13, 72.196, 308.135)

Conversions

Conversions Part 1

Format	Color
Hex	1F0174
RGB	31, 1, 116
RGB Percent	12%, 0%, 45%
CMY	0.8794, 0.9967, 0.5458
CMYK	0.73, 0.99, 0.00, 0.55
HSL	256°, 99%, 23%
HSV	256°, 99%, 45%
XYZ	3.7083, 1.5625, 16.5736
YIQ	23.0800, -19.0350, 42.1250

Conversions

Conversions Part 2

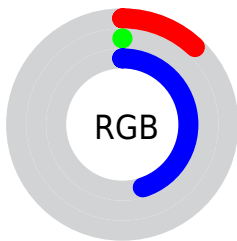
Format	Color
R_{YB}	31, 1, 116
Decimal	2031988
CIE _{Lab}	13.00, 44.58, -56.79
CIE _{LCh}	13, 72.196, 308.135
Yxy	1.5625, 0.1698, 0.0715
Android (android.graphics.Color)	4280222068 (0xFF1F0174)
YUV	23.0800, 45.8096, 6.9458
Hunter-Lab	12.5000, 31.0789, -69.8620

Details

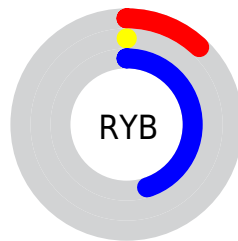
The CIELCh color **13, 72.196, 308.135** is a dark color, and the websafe version is hex **000066**. A complement of this color would be **45, 56.027, 117.322**, and the grayscale version is **7, 0.002, 296.812**.

A 20% lighter version of the original color is **33, 71.994, 308.044**, and **4, 45.936, 302.483** is the 20% darker color. If you saturate the color by 10%, you get **13, 72.629, 308.197**, and if you desaturate by 10%, it is **15, 66.788, 307.605**.

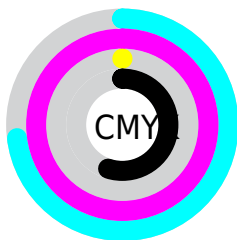
Distribution



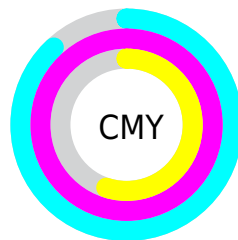
- Red (12%)
- Green (0%)
- Blue (45%)



- Red (12%)
- Yellow (0%)
- Blue (45%)



- Cyan (73%)
- Magenta (99%)
- Yellow (0%)
- Black (55%)





- Cyan (88%)
- Magenta (100%)
- Yellow (55%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 13, 72.196, 308.135 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, 72.196, 308.135 by changing the saturation by 10% instead.

 13, 72.196,
308.135


 13, 72.196,
308.135


 100, 72.196,
308.135


 3, 72.196, 308.135


 33, 72.196,
308.135

 0, 72.196, 308.135

 43, 72.196,
308.135


 53, 72.196,
308.135


 63, 72.196,
308.135


 73, 72.196,
308.135


 83, 72.196,


308.135


 93, 72.196,
308.135


 13, 72.196,
308.135


 13, 72.196,
308.135


 13, 72.629,
308.197

 15, 66.788,
307.605

 18, 60.488,
306.983

 21, 53.059,
306.103

 25, 45.120,
305.114

 29, 37.061,
304.118

■ 33, 29.096,
303.173

■ 37, 21.328,
302.309

■ 41, 13.800,
301.533

■ 45, 6.524, 300.846

Harmonies

Complementary

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



13, 72.196, 308.135



45, 56.027, 117.322

Rectangle

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



13, 72.196, 308.135



13, 72.196, 358.135



13, 72.196, 128.135



13, 72.196, 178.135

Sweetspot

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



13, 72.197, 308.136



47, 27.158, 302.433



34, 25.188, 243.880



22, 18.779, 302.716



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, 72.197, 308.136



19, 88.011, 307.978



21, 65.913, 319.346



22, 4.003, 300.832



14, 75.612, 308.145



34, 128.987, 307.695

Inverse Universe

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



25, 53.192, 341.237



33, 64.128, 341.757



42, 64.457, 133.510



23, 3.967, 333.246



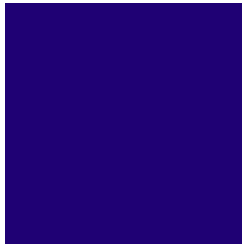
26, 55.407, 341.425



56, 93.040, 342.374

Previews

White Background



This preview shows how the CIELCh color 13, 72.196, 308.135 looks on a white background.

Color Contrast Check

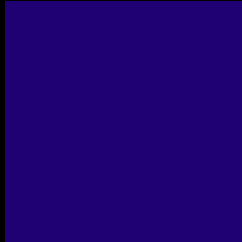
Large Text (above 18pt) WCAG AA ✓ Pass

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, 72.196, 308.135 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, 72.196, 308.135

Background



This preview shows how black text looks on a background with the CIELCh color 13, 72.196, 308.135.



This preview shows how white text looks on a background with the CIELCh color 13, 72.196, 308.135.

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, 72.196, 308.135

Protanopia

14, 28.780, 281.828

Deuteranopia

15, 20.202, 265.486



Tritanopia
15, 13.965, 202.420

Trichromacy



Original Color
13, 72.196, 308.135

Protanomaly
12, 47.366, 299.425

Deuteranomaly
12, 41.401, 297.107

Tritanomaly
11, 31.177, 291.844

Monochromacy



Original Color
13, 72.196, 308.135

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, 72.196, 308.135 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(31, 1, 116)` looks like.

```
.text, #text, p{  
    color:rgb(31, 1, 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(31, 1, 116) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(31, 1, 116) }
```

Border

The CSS property to change the border of an element to CIELCh 13, 72.196, 308.135 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(31, 1, 116) }
```

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

```
.border{ border-color:rgb(31, 1, 116) }
```

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

Here you see how a box with a 4 pixel rgb(31, 1, 116) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(31, 1, 116); -webkit-box-  
shadow:4px 4px 4px 4px rgb(31, 1, 116);  
box-shadow:4px 4px 4px 4px rgb(31, 1, 116)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 13, 72.196, 308.135 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(31, 1, 116) }
```

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

```
.background{ background-color: rgb(31, 1,  
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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