

Converting Colors

CIELCh(13, 66.301, 304.413)

Have a look what the booklet for
CIELCh(13, 66.301, 304.413)
contains.

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Color

CIELCh(13, 66.785, 304.508)

Conversions

Conversions Part 1

Format	Color
Hex	0C0D71
RGB	12, 13, 113
RGB Percent	5%, 5%, 44%
CMY	0.9523, 0.9488, 0.5566
CMYK	0.89, 0.88, 0.00, 0.56
HSL	239°, 81%, 25%
HSV	239°, 89%, 44%
XYZ	3.2830, 1.5625, 15.7710
YIQ	24.1010, -32.6960, 30.8880

Conversions

Conversions Part 2

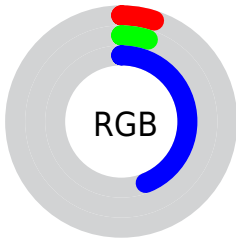
Format	Color
RYB	12, 13, 113
Decimal	789873
CIELab	13.00, 37.84, -55.03
CIElCh	13, 66.785, 304.508
Yxy	1.5625, 0.1592, 0.0758
Android (android.graphics.Color)	4278979953 (0xFF0C0D71)
YUV	24.1010, 43.8272, -10.6126
Hunter-Lab	12.5000, 25.0064, -66.0551

Details

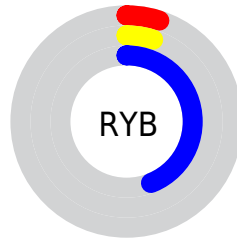
The CIELCh color **13, 66.785, 304.508** is a dark color, and the websafe version is hex **000066**. A complement of this color would be **46, 50.215, 102.711**, and the grayscale version is **8, 0.002, 296.813**.

A 20% lighter version of the original color is **33, 67.004, 304.592**, and **4, 43.832, 301.588** is the 20% darker color. If you saturate the color by 10%, you get **11, 72.463, 305.977**, and if you desaturate by 10%, it is **16, 60.003, 302.698**.

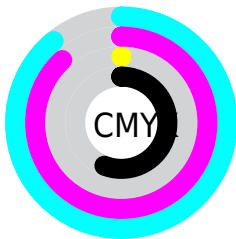
Distribution



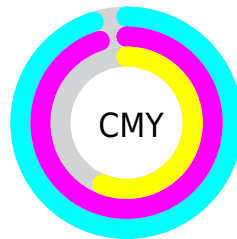
- Red (5%)
- Green (5%)
- Blue (44%)



- Red (5%)
- Yellow (5%)
- Blue (44%)



- Cyan (89%)
- Magenta (88%)
- Yellow (0%)
- Black (56%)





- Cyan (95%)
- Magenta (95%)
- Yellow (56%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 13, 66.785, 304.508 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, 66.785, 304.508 by changing the saturation by 10% instead.

 13, 66.785,
304.508


 13, 66.785,
304.508


 100, 66.785,
304.508


 3, 66.785, 304.508


 33, 66.785,
304.508

 0, 66.785, 304.508

 43, 66.785,
304.508


 53, 66.785,
304.508


 63, 66.785,
304.508


 73, 66.785,
304.508


 83, 66.785,


304.508


 93, 66.785,
304.508


 13, 66.785,
304.508

 13, 66.785,
304.508


 11, 72.463,
305.977


 16, 60.003,
302.698

 11, 72.942,
306.099

 19, 52.128,
300.604

 23, 43.938,
298.486

 27, 35.836,
296.506

 31, 27.986,
294.736

■ 35, 20.435,
293.195

■ 40, 13.182,
291.870

■ 44, 6.210, 290.739

■ 48, 0.501, 109.672

Harmonies

Complementary

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



13, 66.785, 304.508



46, 50.215, 102.711

Rectangle

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



13, 66.785, 304.508



13, 66.785, 354.508



13, 66.785, 124.508



13, 66.785, 174.508

Sweetspot

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



13, 66.786, 304.509



47, 23.452, 292.981



43, 26.979, 194.247



22, 15.780, 293.340



81, 0.010, 296.813



31, 0.005, 296.813

Same Dimension

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



13, 66.786, 304.509



16, 88.703, 306.149



18, 63.508, 312.112



21, 3.758, 290.714



12, 76.074, 306.111



31, 130.414, 306.214

Inverse Universe

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



23, 50.694, 34.922



30, 68.712, 39.013



43, 55.628, 126.156



22, 2.649, 19.149



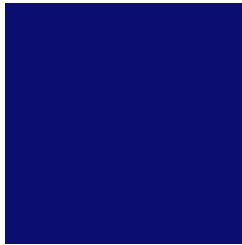
24, 57.762, 37.449



52, 101.834, 39.748

Previews

White Background



This preview shows how the CIELCh color 13, 66.785, 304.508 looks on a white background.

Color Contrast Check

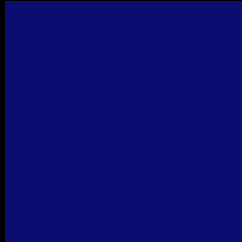
Large Text (above 18pt) WCAG AA ✓ Pass

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, 66.785, 304.508 looks on a black background.

Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

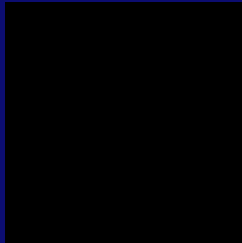
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 13, 66.785, 304.508

Background



This preview shows how black text looks on a background with the CIELCh color 13, 66.785, 304.508.



This preview shows how white text looks on a background with the CIELCh color 13, 66.785, 304.508.

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, 66.785, 304.508

Protanopia

14, 27.544, 280.941

Deuteranopia

14, 19.027, 263.891



Tritanopia
14, 13.556, 202.648

Trichromacy



Original Color
13, 66.785, 304.508

Protanomaly
13, 43.271, 295.853

Deuteranomaly
12, 37.269, 292.891

Tritanomaly
12, 27.711, 285.306

Monochromacy



Original Color
13, 66.785, 304.508

Achromatopsia
8, 0.002, 296.813

Achromatomaly
8, 26.794, 298.488

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 13, 66.785, 304.508 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(12, 13, 113)` looks like.

```
.text, #text, p{  
    color:rgb(12, 13, 113)  
}
```

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(12, 13, 113) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(12, 13, 113) }
```

Border

The CSS property to change the border of an element to CIELCh 13, 66.785, 304.508 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(12, 13, 113) }
```

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

```
.border{ border-color:rgb(12, 13, 113) }
```

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

Here you see how a box with a 4 pixel `rgb(12, 13, 113)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(12, 13, 113); -webkit-box-  
shadow:4px 4px 4px 4px rgb(12, 13, 113);  
box-shadow:4px 4px 4px 4px rgb(12, 13,  
113) }
```

Background

The CSS property to change the background color of an element to CIELCh 13, 66.785, 304.508 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(12, 13, 113) }
```

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

```
.background{ background-color: rgb(12, 13,  
113) }
```

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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