

Converting Colors

CIELCh(13, 16.730, 301.734)

Have a look what the booklet for
CIELCh(13, 16.730, 301.734)
contains.

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Color

CIELCh(13, 16.730, 301.734)

Conversions

Conversions Part 1

Format	Color
Hex	231E35
RGB	35, 30, 53
RGB Percent	14%, 12%, 21%
CMY	0.8617, 0.8814, 0.7911
CMYK	0.34, 0.43, 0.00, 0.79
HSL	253°, 28%, 16%
HSV	253°, 43%, 21%
XYZ	1.8213, 1.5625, 3.6063
YIQ	34.1170, -4.4030, 8.2130

Conversions

Conversions Part 2

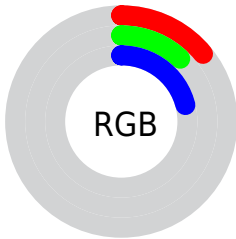
Format	Color
R_{YB}	35, 30, 53
Decimal	2301493
CIE _{Lab}	13.00, 8.80, -14.23
CIE _{LCh}	13, 16.730, 301.734
Yxy	1.5625, 0.2606, 0.2235
Android (android.graphics.Color)	4280491573 (0xFF231E35)
YUV	34.1170, 9.3093, 0.7744
Hunter-Lab	12.5000, 4.1338, -8.3554

Details

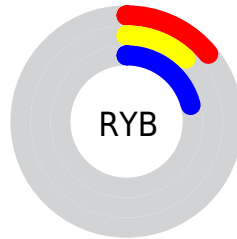
The CIELCh color **13, 16.730, 301.734** is a dark color, and the websafe version is hex **333333**. A complement of this color would be **21, 15.397, 116.262**, and the grayscale version is **13, 0.003, 296.813**.

A 20% lighter version of the original color is **33, 16.640, 300.997**, and **0, 2.016, 290.178** is the 20% darker color. If you saturate the color by 10%, you get **11, 20.905, 302.656**, and if you desaturate by 10%, it is **15, 12.660, 300.891**.

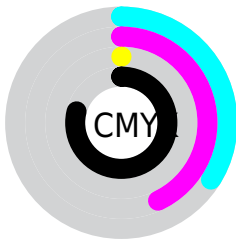
Distribution



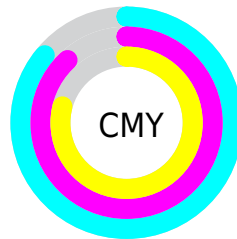
- Red (14%)
- Green (12%)
- Blue (21%)



- Red (14%)
- Yellow (12%)
- Blue (21%)



- Cyan (34%)
- Magenta (43%)
- Yellow (0%)
- Black (79%)



- Cyan (86%)
- Magenta (88%)
- Yellow (79%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 13, 16.730, 301.734 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, 16.730, 301.734 by changing the saturation by 10% instead.

■ 13, 16.730,
301.734

■ 13, 16.730,
301.734

■ 100, 16.730,
301.734

■ 3, 16.730, 301.734

■ 33, 16.730,
301.734

■ 0, 16.730, 301.734

■ 43, 16.730,
301.734


■ 53, 16.730,
301.734


■ 63, 16.730,
301.734


■ 73, 16.730,
301.734


■ 83, 16.730,


301.734

 93, 16.730,
301.734

 13, 16.730,
301.734

 13, 16.730,
301.734

 11, 20.905,
302.656

 15, 12.660,
300.891

 9, 25.152, 303.641


 17, 8.709, 300.132

 7, 29.176, 304.362

 19, 4.880, 299.454

 5, 32.095, 303.987

 22, 1.172, 298.849

 4, 34.515, 303.264

 24, 2.420, 118.327

 3, 36.066, 302.778

 26, 5.902, 117.857

■ 28, 9.279, 117.445

■ 30, 12.556,
117.082

■ 32, 15.740,
116.763

Harmonies

Complementary

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



13, 16.730, 301.734



21, 15.397, 116.262

Rectangle

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



13, 16.730, 301.734



13, 16.730, 351.734



13, 16.730, 121.734



13, 16.730, 171.734

Sweetspot

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



13, 16.729, 301.734



26, 5.955, 299.481



19, 7.997, 223.700



12, 4.215, 299.537



67, 0.008, 296.813



14, 0.003, 296.813

Same Dimension

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



13, 16.729, 301.734



15, 25.371, 302.786



14, 17.798, 317.819



8, 1.949, 299.083



8, 60.640, 307.987



28, 116.444, 307.341

Inverse Universe

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



15, 16.333, 333.581



19, 24.070, 334.284



20, 17.356, 134.439



8, 2.005, 331.548



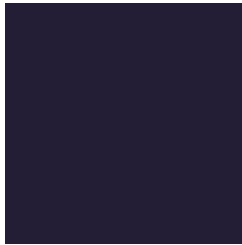
18, 45.923, 338.308



49, 86.255, 339.403

Previews

White Background



This preview shows how the CIE LCh color 13, 16.730, 301.734 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, 16.730, 301.734 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, 16.730, 301.734

Background



This preview shows how black text looks on a background with the CIELCh color 13, 16.730, 301.734.



This preview shows how white text looks on a background with the CIELCh color 13, 16.730, 301.734.

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, 16.730, 301.734

Protanopia

13, 16.667, 283.614

Deuteranopia

13, 13.948, 278.423



Tritanopia
13, 2.335, 266.863

Trichromacy



Original Color
13, 16.730, 301.734

Protanomaly
13, 16.540, 289.622

Deuteranomaly
13, 14.403, 286.510

Tritanomaly
13, 7.189, 292.264

Monochromacy



Original Color
13, 16.730, 301.734

Achromatopsia
13, 0.003, 296.813

Achromatomaly
13, 5.779, 296.419

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 13, 16.730, 301.734 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(35, 30, 53)` looks like.

```
.text, #text, p{  
    color:rgb(35, 30, 53)  
}
```

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(35, 30, 53) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(35, 30, 53) }
```

Border

The CSS property to change the border of an element to CIELCh 13, 16.730, 301.734 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(35, 30, 53) }
```

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

```
.border{ border-color:rgb(35, 30, 53) }
```

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

Here you see how a box with a 4 pixel `rgb(35, 30, 53)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(35, 30, 53); -webkit-box-  
shadow:4px 4px 4px 4px rgb(35, 30, 53);  
box-shadow:4px 4px 4px 4px rgb(35, 30, 53)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 13, 16.730, 301.734 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(35, 30, 53) }
```

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

```
.background{ background-color: rgb(35, 30,  
53) }
```

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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