

Converting Colors

CIELCh(16, 33.045, 305.956)

Have a look what the booklet for
CIELCh(16, 33.045, 305.956)
contains.

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Color

CIELCh(16, 33.045, 305.956)

Conversions

Conversions Part 1

Format	Color
Hex	2D1F4E
RGB	45, 31, 78
RGB Percent	18%, 12%, 31%
CMY	0.8230, 0.8780, 0.6936
CMYK	0.42, 0.60, 0.00, 0.69
HSL	258°, 43%, 21%
HSV	258°, 60%, 31%
XYZ	2.9614, 2.0993, 7.4827
YIQ	40.5440, -6.7430, 17.5850

Conversions

Conversions Part 2

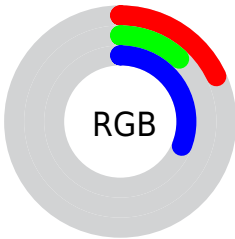
Format	Color
R_{YB}	45, 31, 78
Decimal	2957134
CIE Lab	16.00, 19.40, -26.75
CIE LCh	16, 33.045, 305.956
Yxy	2.0993, 0.2361, 0.1674
Android (android.graphics.Color)	4281147214 (0xFF2D1F4E)
YUV	40.5440, 18.4658, 3.9079
Hunter-Lab	14.4890, 11.1277, -20.4776

Details

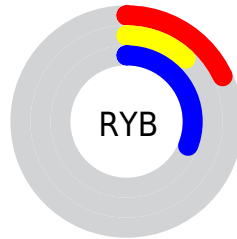
The CIELCh color **16, 33.045, 305.956** is a dark color, and the websafe version is hex **333366**. A complement of this color would be **31, 29.212, 118.721**, and the grayscale version is **16, 0.003, 296.813**.

A 20% lighter version of the original color is **36, 33.629, 305.929**, and **1, 19.359, 291.102** is the 20% darker color. If you saturate the color by 10%, you get **13, 38.764, 306.792**, and if you desaturate by 10%, it is **19, 27.258, 305.113**.

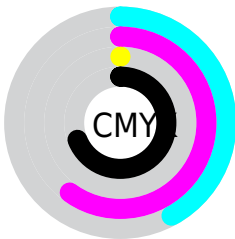
Distribution



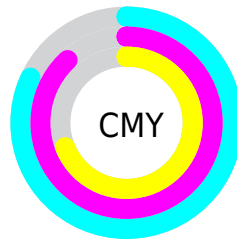
- Red (18%)
- Green (12%)
- Blue (31%)



- Red (18%)
- Yellow (12%)
- Blue (31%)



- Cyan (42%)
- Magenta (60%)
- Yellow (0%)
- Black (69%)



- Cyan (82%)
- Magenta (88%)
- Yellow (69%)

Brightness & Saturation Gradients

These gradients show how the CIELCh color 16, 33.045, 305.956 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 16, 33.045, 305.956 by changing the saturation by 10% instead.

■ 16, 33.045,
305.956

■ 16, 33.045,
305.956

■ 100, 33.045,
305.956

■ 6, 33.045, 305.956

■ 36, 33.045,
305.956

■ 0, 33.045, 305.956

■ 46, 33.045,
305.956


■ 56, 33.045,
305.956


■ 66, 33.045,
305.956


■ 76, 33.045,
305.956


■ 86, 33.045,


305.956


 96, 33.045,
305.956


 16, 33.045,
305.956

 16, 33.045,
305.956


 13, 38.764,
306.792

 19, 27.258,
305.113


 11, 44.192,
307.546

 22, 21.530,
304.306

 9, 49.067, 308.151

 24, 15.928,
303.559

 7, 54.187, 308.992

 27, 10.482,
302.881

 30, 5.202, 302.272

■ 33, 0.091, 301.470

■ 36, 4.858, 121.268

■ 39, 9.650, 120.849

■ 42, 14.293,
120.483

Harmonies

Complementary

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



16, 33.045, 305.956



31, 29.212, 118.721

Rectangle

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



16, 33.045, 305.956



16, 33.045, 355.956



16, 33.045, 125.956



16, 33.045, 175.956

Sweetspot

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



16, 33.045, 305.956



37, 11.633, 302.785



26, 14.157, 236.484



17, 8.003, 302.893



73, 0.009, 296.813



21, 0.004, 296.813

Same Dimension

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



16, 33.045, 305.956



18, 49.597, 307.147



19, 34.083, 320.543



14, 2.798, 302.184



11, 65.840, 308.826



32, 120.150, 308.177

Inverse Universe

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



20, 28.810, 338.522



25, 40.943, 339.916



30, 33.321, 135.184



14, 2.687, 334.697



21, 47.659, 343.574



51, 85.119, 345.050

Previews

White Background



This preview shows how the CIE LCh color 16, 33.045, 305.956 looks on a white background.

Color Contrast Check

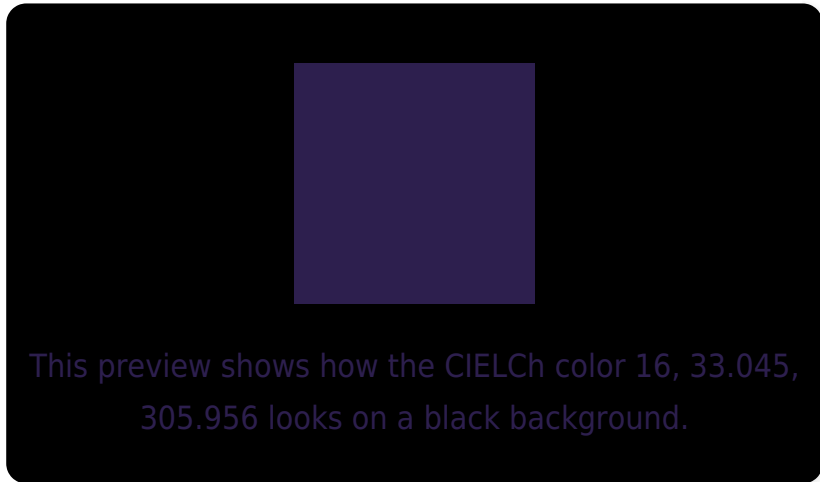
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

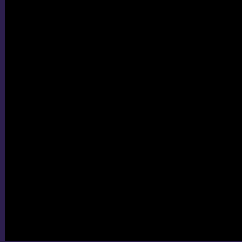
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 16, 33.045, 305.956

Background



This preview shows how black text looks on a background with the CIELCh color 16, 33.045, 305.956.



This preview shows how white text looks on a background with the CIELCh color 16, 33.045, 305.956.

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

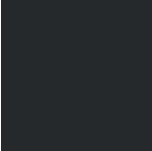
16, 33.045, 305.956

Protanopia

16, 30.535, 282.222

Deuteranopia

16, 23.090, 270.614



Tritanopia
16, 2.755, 248.938

Trichromacy



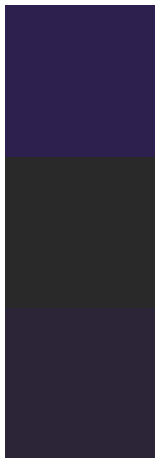
Original Color
16, 33.045, 305.956

Protanomaly
15, 31.653, 288.981

Deuteranomaly
15, 26.300, 284.280

Tritanomaly
16, 13.457, 298.959

Monochromacy



Original Color
16, 33.045, 305.956

Achromatopsia
17, 0.003, 296.813

Achromatomaly
16, 12.945, 304.799

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 16, 33.045, 305.956 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(45, 31, 78)` looks like.

```
.text, #text, p{  
    color:rgb(45, 31, 78)  
}
```

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(45, 31, 78) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(45, 31, 78) }
```

Border

The CSS property to change the border of an element to CIELCh 16, 33.045, 305.956 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(45, 31, 78) }
```

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

```
.border{ border-color:rgb(45, 31, 78) }
```

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

Here you see how a box with a 4 pixel `rgb(45, 31, 78)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(45, 31, 78); -webkit-box-  
shadow:4px 4px 4px 4px rgb(45, 31, 78);  
box-shadow:4px 4px 4px 4px rgb(45, 31, 78)  
}
```

Background

The CSS property to change the background color of an element to CIELCh 16, 33.045, 305.956 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(45, 31, 78) }
```

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

```
.background{ background-color: rgb(45, 31,  
78) }
```

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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