

Converting Colors

CIELCh(16, 41.351, 344.496)

Have a look what the booklet for
CIELCh(16, 41.351, 344.496)
contains.

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Color

CIELCh(16, 40.840, 344.840)

Conversions

Conversions Part 1

Format	Color
Hex	530038
RGB	83, 0, 56
RGB Percent	33%, 0%, 22%
CMY	0.6758, 1.0000, 0.7815
CMYK	0.00, 1.00, 0.33, 0.68
HSL	320°, 100%, 16%
HSV	320°, 100%, 32%
XYZ	4.2415, 2.0993, 3.8868
YIQ	31.2010, 31.4920, 35.0120

Conversions

Conversions Part 2

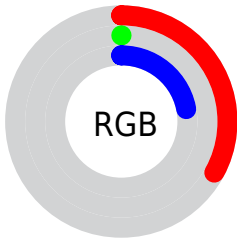
Format	Color
R_YB	83, 0, 56
Decimal	5439544
CIE Lab	16.00, 39.42, -10.68
CIE LCh	16, 40.840, 344.840
Yxy	2.0993, 0.4147, 0.2053
Android (android.graphics.Color)	4283629624 (0xFF530038)
YUV	31.2010, 12.2259, 45.4277
Hunter-Lab	14.4890, 26.8984, -5.7627

Details

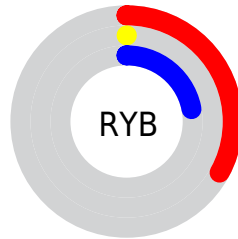
The CIELCh color **16, 40.840, 344.840** is a dark color, and the websafe version is hex **660033**. A complement of this color would be **30, 43.963, 143.880**, and the grayscale version is **12, 0.003, 296.813**.

A 20% lighter version of the original color is **36, 40.622, 345.012**, and **3, 16.042, 3.315** is the 20% darker color. If you saturate the color by 10%, you get **16, 40.716, 344.879**, and if you desaturate by 10%, it is **17, 38.688, 343.517**.

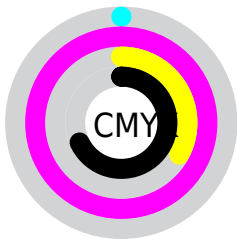
Distribution



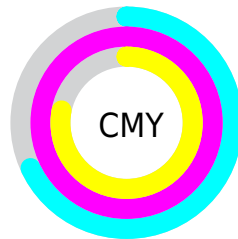
- Red (33%)
- Green (0%)
- Blue (22%)



- Red (33%)
- Yellow (0%)
- Blue (22%)



- Cyan (0%)
- Magenta (100%)
- Yellow (33%)
- Black (68%)





- Cyan (68%)
- Magenta (100%)
- Yellow (78%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 16, 40.840, 344.840 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, 40.840, 344.840 by changing the saturation by 10% instead.

 16, 40.840,
344.840

 16, 40.840,
344.840


 100, 40.840,
344.840


 6, 40.840, 344.840


 36, 40.840,
344.840

 0, 40.840, 344.840

 46, 40.840,
344.840


 56, 40.840,
344.840


 66, 40.840,
344.840


 76, 40.840,
344.840


 86, 40.840,


344.840


 96, 40.840,
344.840


 16, 40.840,
344.840


 16, 40.840,
344.840


 16, 40.716,
344.879

 17, 38.688,
343.517

 18, 36.521,
342.135

 20, 33.425,
340.950

 21, 29.548,
339.917

 23, 25.101,
338.995

■ 25, 20.280,
338.156

■ 28, 15.252,
337.380

■ 30, 10.142,
336.653

■ 33, 5.040, 335.960

Harmonies

Complementary

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



16, 40.840, 344.840



30, 43.963, 143.880

Rectangle

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



16, 40.840, 344.840



16, 40.840, 34.840



16, 40.840, 164.840



16, 40.840, 214.840

Sweetspot

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



16, 40.716, 344.879



36, 18.888, 337.457



8, 56.500, 309.361



16, 12.733, 337.635



74, 0.009, 296.813



22, 0.004, 296.813

Same Dimension

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



16, 40.716, 344.879



22, 48.442, 345.642



15, 39.453, 24.640



15, 2.783, 335.870



22, 47.650, 345.577



51, 84.348, 347.219

Inverse Universe

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



16, 40.716, 344.879



22, 48.442, 345.642



31, 26.356, 174.144



15, 2.783, 335.870



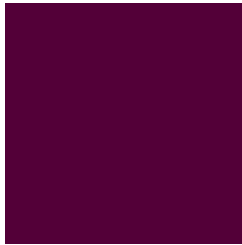
22, 47.650, 345.577



51, 84.348, 347.219

Previews

White Background



This preview shows how the CIELCh color 16, 40.840, 344.840 looks on a white background.

Color Contrast Check

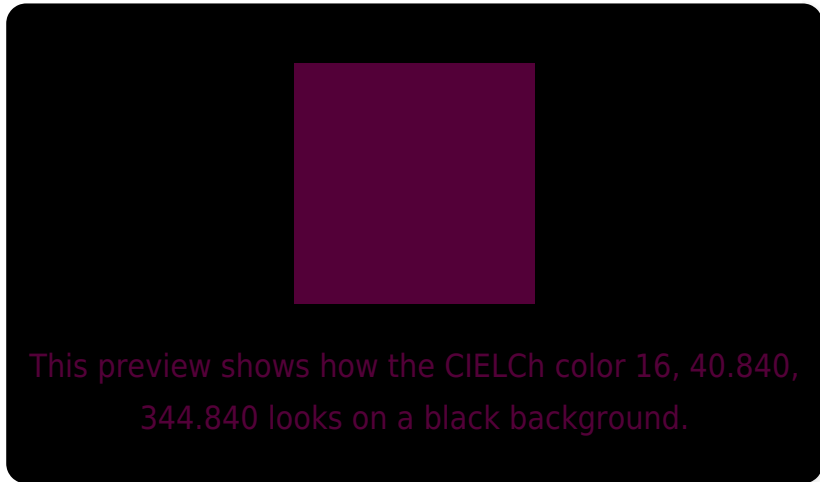
Large Text (above 18pt) WCAG AA ✓ Pass

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

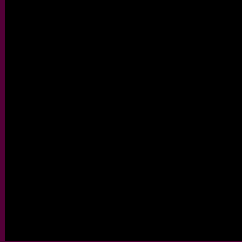
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 16, 40.840, 344.840

Background



This preview shows how black text looks on a background with the CIELCh color 16, 40.840, 344.840.



This preview shows how white text looks on a background with the CIELCh color 16, 40.840, 344.840.

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, 40.840, 344.840

Protanopia

18, 25.658, 285.320

Deuteranopia

18, 6.304, 299.878



Tritanopia
17, 30.777, 27.990

Trichromacy



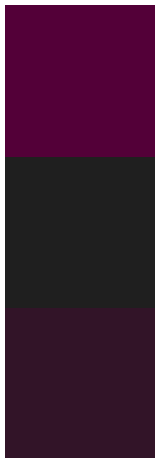
Original Color
16, 40.840, 344.840

Protanomaly
15, 31.580, 310.514

Deuteranomaly
15, 22.493, 333.138

Tritanomaly
16, 32.364, 8.673

Monochromacy



Original Color
16, 40.840, 344.840

Achromatopsia
12, 0.003, 296.813

Achromatomaly
11, 19.536, 339.782

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 16, 40.840, 344.840 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(83, 0, 56)` looks like.

```
.text, #text, p{  
    color:rgb(83, 0, 56)  
}
```

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(83, 0, 56) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(83, 0, 56) }
```

Border

The CSS property to change the border of an element to CIELCh 16, 40.840, 344.840 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(83, 0, 56) }
```

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

```
.border{ border-color:rgb(83, 0, 56) }
```

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

Here you see how a box with a 4 pixel `rgb(83, 0, 56)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(83, 0, 56); -webkit-box-shadow:4px  
4px 4px 4px rgb(83, 0, 56); box-shadow:4px  
4px 4px 4px rgb(83, 0, 56) }
```

Background

The CSS property to change the background color of an element to CIELCh 16, 40.840, 344.840 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(83, 0, 56) }
```

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

```
.background{ background-color: rgb(83, 0,  
56) }
```

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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