

Converting Colors

CIELCh(13, 31.109, 346.083)

Have a look what the booklet for
CIELCh(13, 31.109, 346.083)
contains.

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Color

CIELCh(13, 31.323, 345.135)

Conversions

Conversions Part 1

Format	Color
Hex	42092D
RGB	66, 9, 45
RGB Percent	26%, 4%, 18%
CMY	0.7400, 0.9634, 0.8225
CMYK	0.00, 0.86, 0.32, 0.74
HSL	322°, 75%, 15%
HSV	322°, 86%, 26%
XYZ	2.8466, 1.5625, 2.6605
YIQ	30.1470, 22.4160, 23.2800

Conversions

Conversions Part 2

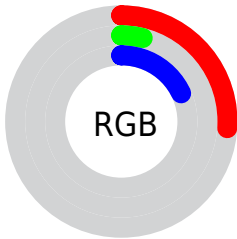
Format	Color
R_{YB}	66, 9, 45
Decimal	4327725
CIE _{Lab}	13.00, 30.27, -8.04
CIE _{LCh}	13, 31.323, 345.135
Yxy	1.5625, 0.4027, 0.2210
Android (android.graphics.Color)	4282517805 (0xFF42092D)
YUV	30.1470, 7.3225, 31.4431
Hunter-Lab	12.5000, 18.7748, -3.8691




Details

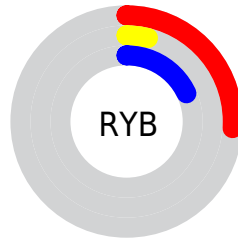
The CIELCh color **13, 31.323, 345.135** is a dark color, and the websafe version is hex **330033**. A complement of this color would be **24, 31.954, 148.201**, and the grayscale version is **11, 0.003, 296.813**.




A 20% lighter version of the original color is **33, 31.292, 345.233**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **12, 33.511, 346.500**, and if you desaturate by 10%, it is **14, 29.017, 343.744**.

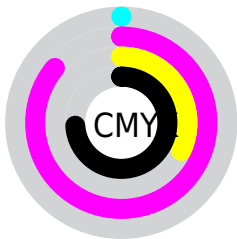
Distribution







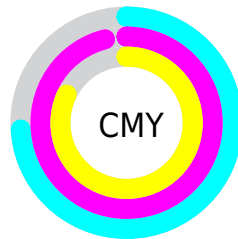
-  Red (26%)
-  Green (4%)
-  Blue (18%)






-  Red (26%)
-  Yellow (4%)
-  Blue (18%)



-  Cyan (0%)
-  Magenta (86%)
-  Yellow (32%)
-  Black (74%)





-  Cyan (74%)
-  Magenta (96%)
-  Yellow (82%)


Brightness & Saturation Gradients

These gradients show how the CIELCh color 13, 31.323, 345.135 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, 31.323, 345.135 by changing the saturation by 10% instead.

 13, 31.323,
345.135


 13, 31.323,
345.135


 100, 31.323,
345.135


 3, 31.323, 345.135


 33, 31.323,
345.135

 0, 31.323, 345.135

 43, 31.323,
345.135


 53, 31.323,
345.135


 63, 31.323,
345.135


 73, 31.323,
345.135


 83, 31.323,


345.135


 93, 31.323,
345.135


 13, 31.323,
345.135


 13, 31.323,
345.135


 12, 33.511,
346.500


 14, 29.017,
343.744

 12, 34.499,
346.996

 15, 26.055,
342.553

 17, 22.589,
341.513

 19, 18.778,
340.587

 21, 14.758,
339.745

■ 23, 10.640,
338.971

■ 25, 6.503, 338.247

■ 27, 2.401, 337.538

■ 29, 1.629, 157.083

Harmonies

Complementary

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



13, 31.323, 345.135



24, 31.954, 148.201

Rectangle

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



13, 31.323, 345.135



13, 31.323, 35.135



13, 31.323, 165.135



13, 31.323, 215.135

Sweetspot

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



13, 31.322, 345.136



30, 13.343, 339.060



8, 40.916, 309.268



13, 8.905, 339.156



70, 0.009, 296.813



18, 0.003, 296.813

Same Dimension

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



13, 31.322, 345.136



17, 41.013, 348.097



12, 29.441, 22.294



12, 2.259, 337.727



20, 44.177, 348.501



49, 80.329, 350.690

Inverse Universe

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



13, 31.322, 345.136



17, 41.013, 348.097



25, 19.638, 181.309



12, 2.259, 337.727



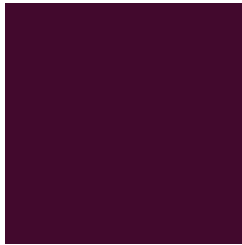
20, 44.177, 348.501



49, 80.329, 350.690

Previews

White Background



This preview shows how the CIE LCh color 13, 31.323, 345.135 looks on a white background.

Color Contrast Check

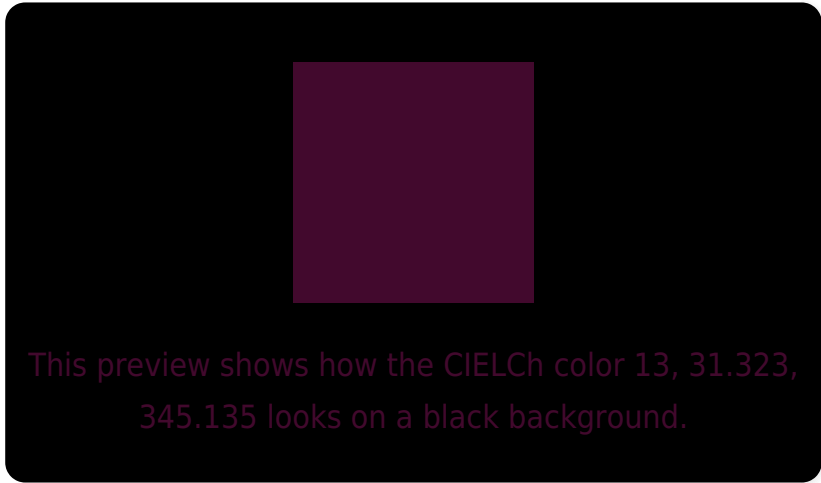
Large Text (above 18pt) WCAG AA ✓ Pass

Any Text WCAG AA ✓ Pass

Large Text (above 18pt) WCAG AAA ✓ Pass

Any Text WCAG AAA ✓ Pass

Black Background



Color Contrast Check

Large Text (above 18pt) WCAG AA × Fail

Any Text WCAG AA × Fail

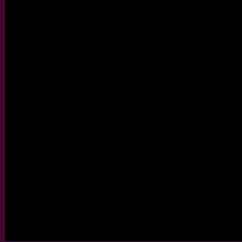
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

CIELCh 13, 31.323, 345.135

Background



This preview shows how black text looks on a background with the CIELCh color 13, 31.323, 345.135.



This preview shows how white text looks on a background with the CIELCh color 13, 31.323, 345.135.

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, 31.323, 345.135

Protanopia

14, 20.044, 284.917

Deuteranopia

14, 5.091, 302.094



Tritanopia
13, 25.051, 26.424

Trichromacy



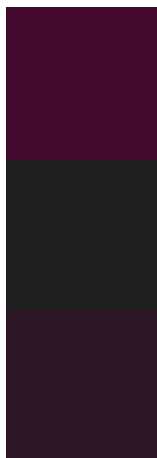
Original Color
13, 31.323, 345.135

Protanomaly
12, 22.911, 308.920

Deuteranomaly
13, 15.744, 334.052

Tritanomaly
13, 25.642, 8.721

Monochromacy



Original Color
13, 31.323, 345.135

Achromatopsia
11, 0.003, 296.813

Achromatomaly
11, 14.214, 338.745

CSS Examples

Text

The CSS property to change the color of the text to CIELCh 13, 31.323, 345.135 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(66, 9, 45)` looks like.

```
.text, #text, p{  
    color:rgb(66, 9, 45)  
}
```

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(66, 9, 45) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(66, 9, 45) }
```

Border

The CSS property to change the border of an element to CIELCh 13, 31.323, 345.135 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(66, 9, 45) }
```

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

```
.border{ border-color:rgb(66, 9, 45) }
```

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

Here you see how a box with a 4 pixel `rgb(66, 9, 45)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(66, 9, 45); -webkit-box-shadow:4px  
4px 4px 4px rgb(66, 9, 45); box-shadow:4px  
4px 4px 4px rgb(66, 9, 45) }
```

Background

The CSS property to change the background color of an element to CIELCh 13, 31.323, 345.135 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(66, 9, 45) }
```

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

```
.background{ background-color: rgb(66, 9,  
45) }
```

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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