

# Converting Colors

CIELCh(3, 67.351, 42.419)

Have a look what the booklet for  
CIELCh(3, 67.351, 42.419) contains.

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**Color**

**CIELCh(10, 33.351, 26.651)**

# Conversions

## Conversions Part 1

Format	Color
Hex	410002
RGB	65, 0, 2
RGB Percent	25%, 0%, 1%
CMY	0.7466, 0.9981, 0.9923
CMYK	0.00, 0.99, 0.97, 0.75
HSL	359°, 98%, 13%
HSV	359°, 99%, 25%
XYZ	2.1715, 1.1260, 0.1595
YIQ	19.6630, 38.0980, 14.4020

# Conversions

## Conversions Part 2

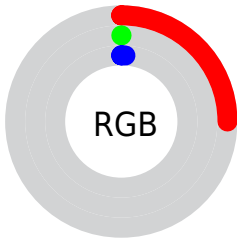
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	65, 0, 2
Decimal	4259842
CIE <sub>Lab</sub>	10.00, 29.81, 14.96
CIE <sub>LCh</sub>	10, 33.351, 26.651
Yxy	1.1260, 0.6281, 0.3257
Android (android.graphics.Color)	4282449922 (0xFF410002)
YUV	19.6630, -8.7079, 39.7605
Hunter-Lab	10.6114, 17.9580, 6.5367

# Details

The CIELCh color **10, 33.351, 26.651** is a dark color, and the websafe version is hex **330000**. A complement of this color would be **24, 18.957, 193.320**, and the grayscale version is **6, 0.002, 296.812**.

A 20% lighter version of the original color is **30, 33.836, 26.420**, and **0, 0.000, 0.000** is the 20% darker color. If you saturate the color by 10%, you get **10, 33.572, 26.591**, and if you desaturate by 10%, it is **11, 30.542, 27.239**.

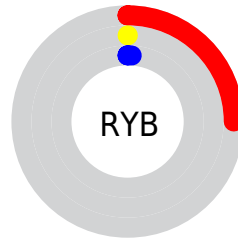
# Distribution



Red (25%)

Green (0%)

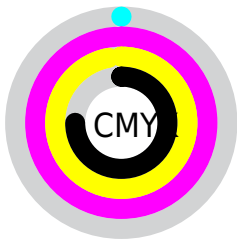
Blue (1%)



Red (25%)

Yellow (0%)

Blue (1%)

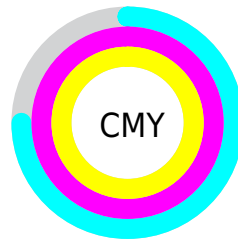


Cyan (0%)

Magenta (99%)

Yellow (97%)

Black (75%)



Cyan (75%)

Magenta (100%)

Yellow (99%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 10, 33.351, 26.651 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 10, 33.351, 26.651 by changing the saturation by 10% instead.



 10, 33.351, 26.651

 10, 33.351, 26.651

 100, 33.351,  
26.651

 0, 33.351, 26.651

 30, 33.351, 26.651

 40, 33.351, 26.651

 50, 33.351, 26.651

 60, 33.351, 26.651

 70, 33.351, 26.651

 80, 33.351, 26.651

 90, 33.351, 26.651

■ 10, 33.351, 26.651

■ 10, 33.351, 26.651

■ 10, 33.572, 26.591

■ 11, 30.542, 27.239

■ 12, 27.773, 27.143

■ 14, 24.344, 26.032

■ 15, 20.460, 23.898

■ 17, 16.606, 22.140

■ 19, 12.868, 20.740

■ 21, 9.298, 19.620

■ 23, 5.923, 18.713

■ 25, 2.752, 17.944

# Harmonies

# Complementary

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



10, 33.351, 26.651



24, 18.957, 193.320

# Rectangle

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



10, 33.351, 26.651



10, 33.351, 76.651



10, 33.351, 206.651



10, 33.351, 256.651

# Sweetspot

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



10, 33.350, 26.654



28, 11.959, 19.830



12, 43.032, 327.056



12, 8.278, 20.023



70, 0.009, 296.813



18, 0.003, 296.813



# Same Dimension

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



10, 33.350, 26.654



15, 42.299, 32.112



16, 27.317, 58.736



12, 1.688, 17.892



18, 47.838, 34.351



47, 93.985, 39.257





# Inverse Universe

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



10, 33.350, 26.654



15, 42.299, 32.112



13, 22.428, 273.849



12, 1.688, 17.892



18, 47.838, 34.351

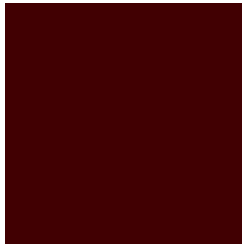


47, 93.985, 39.257



# Previews

## White Background



This preview shows how the CIELCh color 10, 33.351, 26.651 looks on a white background.

## Color Contrast Check

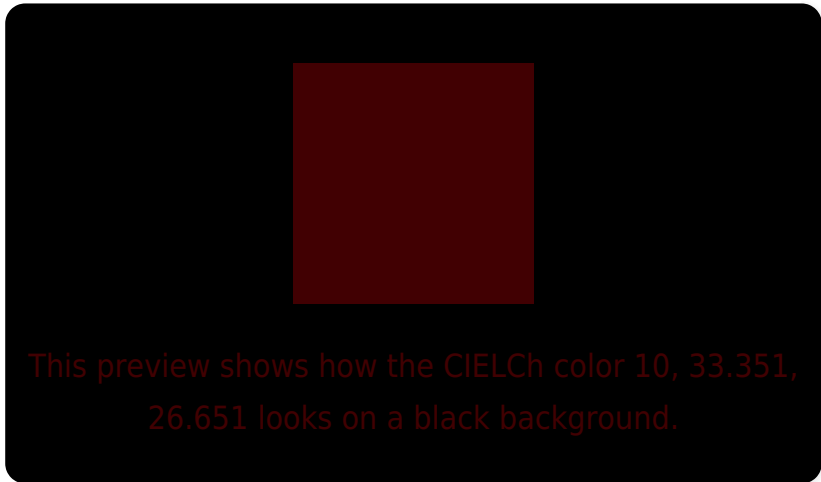
Large Text (above 18pt) WCAG AA ✓ Pass

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

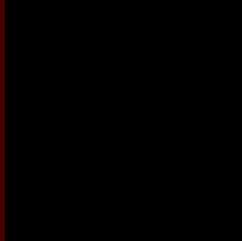
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

**CIELCh 10, 33.351, 26.651**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 10, 33.351, 26.651.

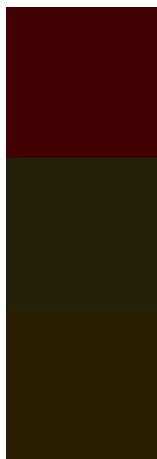


This preview shows how white text looks on a background with the CIELCh color 10, 33.351, 26.651.

# 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

10, 33.675, 26.424

### Protanopia

13, 15.070, 97.858

### Deuteranopia

12, 18.266, 87.708



**Tritanopia**  
11, 31.712, 31.846



# Trichromacy



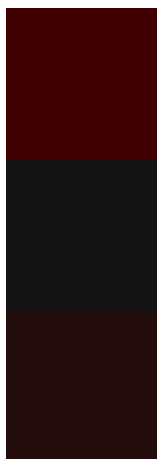
**Original Color**  
10, 33.675, 26.424

**Protanomaly**  
10, 17.530, 48.198

**Deuteranomaly**  
10, 20.540, 48.858

**Tritanomaly**  
10, 32.109, 29.680

# Monochromacy



**Original Color**  
10, 33.675, 26.424

**Achromatopsia**  
6, 0.002, 296.812

**Achromatomaly**  
6, 12.289, 19.646

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 10, 33.351, 26.651 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(65, 0, 2)` looks like.

```
.text, #text, p{  
    color:rgb(65, 0, 2)  
}
```

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(65, 0, 2) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(65, 0, 2) }
```

## Border

The CSS property to change the border of an element to CIELCh 10, 33.351, 26.651 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(65, 0, 2) }
```

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

```
.border{ border-color:rgb(65, 0, 2) }
```

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

Here you see how a box with a 4 pixel `rgb(65, 0, 2)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(65, 0, 2); -webkit-box-shadow:4px  
4px 4px 4px rgb(65, 0, 2); box-shadow:4px  
4px 4px 4px rgb(65, 0, 2) }
```

# Background

The CSS property to change the background color of an element to CIELCh 10, 33.351, 26.651 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(65, 0, 2) }
```

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

```
.background{ background-color: rgb(65, 0,  
2) }
```

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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