

# Converting Colors

CIELCh(10, 51.780, 315.203)

Have a look what the booklet for  
CIELCh(10, 51.780, 315.203)  
contains.

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**Color**

**CIELCh(10, 51.505, 315.133)**

# Conversions

## Conversions Part 1

Format	Color
Hex	2E004E
RGB	46, 0, 78
RGB Percent	18%, 0%, 31%
CMY	0.8200, 1.0000, 0.6945
CMYK	0.41, 1.00, 0.00, 0.69
HSL	275°, 100%, 15%
HSV	275°, 100%, 31%
XYZ	2.4937, 1.1260, 7.2767
YIQ	22.6460, 2.3780, 34.0100

# Conversions

## Conversions Part 2

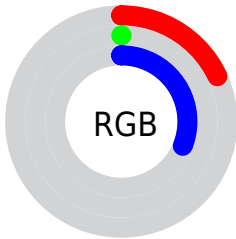
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	46, 0, 78
Decimal	3014734
CIE <sub>Lab</sub>	10.00, 36.50, -36.33
CIE <sub>LCh</sub>	10, 51.505, 315.133
Yxy	1.1260, 0.2289, 0.1033
Android (android.graphics.Color)	4281204814 (0xFF2E004E)
YUV	22.6460, 27.2895, 20.4815
Hunter-Lab	10.6114, 23.3782, -33.2299

# Details

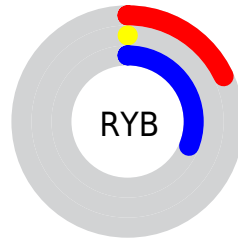
The CIELCh color **10, 51.505, 315.133** is a dark color, and the websafe version is hex **330066**. A complement of this color would be **29, 46.756, 129.226**, and the grayscale version is **7, 0.002, 296.812**.

A 20% lighter version of the original color is **30, 51.426, 315.263**, and **1, 17.727, 289.160** is the 20% darker color. If you saturate the color by 10%, you get **10, 51.469, 315.122**, and if you desaturate by 10%, it is **12, 47.197, 314.960**.

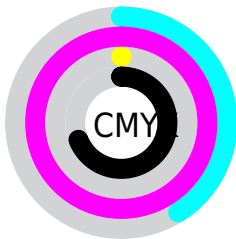
# Distribution



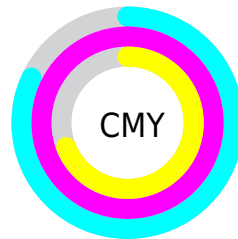
- Red (18%)
- Green (0%)
- Blue (31%)



- Red (18%)
- Yellow (0%)
- Blue (31%)



- Cyan (41%)
- Magenta (100%)
- Yellow (0%)
- Black (69%)




- Cyan (82%)
- Magenta (100%)
- Yellow (69%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 10, 51.505, 315.133 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, 51.505, 315.133 by changing the saturation by 10% instead.





 10, 51.505,  
315.133


 10, 51.505,  
315.133


 100, 51.505,  
315.133


 0, 51.505, 315.133

 30, 51.505,  
315.133

 40, 51.505,  
315.133


 50, 51.505,  
315.133


 60, 51.505,  
315.133


 70, 51.505,  
315.133


 80, 51.505,


315.133


 90, 51.505,  
315.133


 10, 51.505,  
315.133


 10, 51.505,  
315.133


 10, 51.469,  
315.122

 12, 47.197,  
314.960

 14, 43.216,  
314.979

 16, 38.512,  
314.822

 18, 33.291,  
314.532

 20, 27.778,  
314.160

■ 23, 22.138,  
313.748

■ 25, 16.482,  
313.321

■ 28, 10.883,  
312.899

■ 30, 5.382, 312.489

# Harmonies

# Complementary

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



10, 51.505, 315.133



29, 46.756, 129.226

# Rectangle

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



10, 51.505, 315.133



10, 51.505, 5.133



10, 51.505, 135.133



10, 51.505, 185.133

# Sweetspot

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



10, 51.469, 315.122



33, 20.617, 313.369



13, 32.583, 287.042



15, 13.914, 313.463



73, 0.009, 296.813



21, 0.004, 296.813





# Same Dimension

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



10, 51.469, 315.122



15, 62.180, 314.727



16, 46.121, 331.507



14, 2.954, 312.434



39, 113.184, 313.963

# Inverse Universe

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



14, 35.768, 5.575



20, 43.085, 7.522



28, 48.628, 137.773



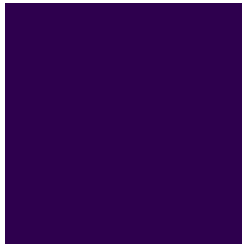
14, 2.201, 349.390



49, 78.280, 11.423

# Previews

## White Background



This preview shows how the CIELCh color 10, 51.505, 315.133 looks on a white background.

## Color Contrast Check

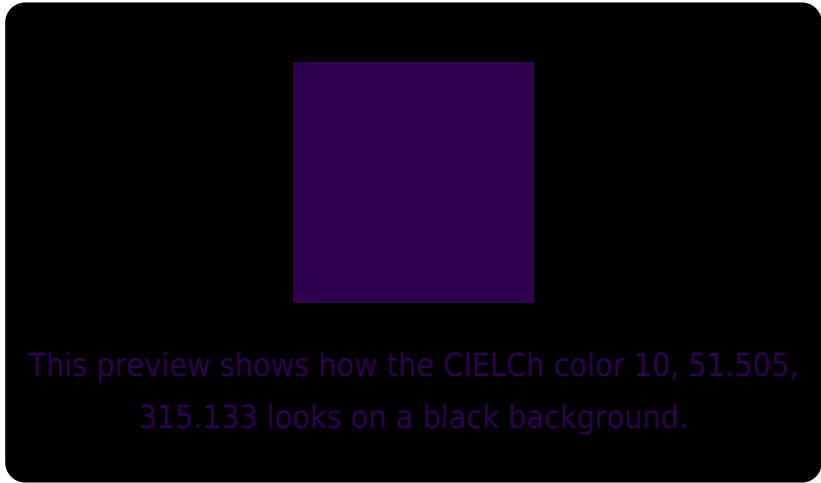
Large Text (above 18pt) WCAG AA ✓ Pass

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

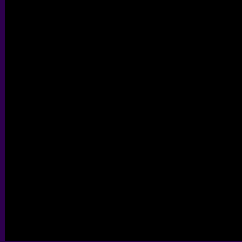
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 10, 51.505, 315.133

## Background



This preview shows how black text looks on a background with the CIELCh color 10, 51.505, 315.133.



This preview shows how white text looks on a background with the CIELCh color 10, 51.505, 315.133.

# 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, 51.505, 315.133

### Protanopia

12, 25.143, 280.179

### Deuteranopia

12, 18.318, 265.390



**Tritanopia**  
12, 3.712, 344.703

# Trichromacy



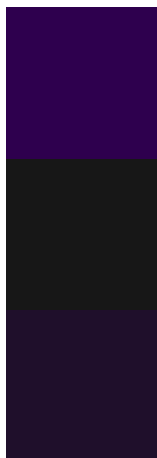
**Original Color**  
10, 51.505, 315.133

**Protanomaly**  
9, 36.484, 299.379

**Deuteranomaly**  
9, 31.634, 297.583

**Tritanomaly**  
10, 23.340, 317.840

# Monochromacy



**Original Color**  
10, 51.505, 315.133

**Achromatopsia**  
8, 0.002, 296.812

**Achromatomaly**  
7, 21.832, 313.802



# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 10, 51.505, 315.133 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(46, 0, 78)` looks like.

```
.text, #text, p{  
    color:rgb(46, 0, 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(46, 0, 78) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(46, 0, 78) }
```

## Border

The CSS property to change the border of an element to CIELCh 10, 51.505, 315.133 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(46, 0, 78) }
```

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

```
.border{ border-color:rgb(46, 0, 78) }
```

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

Here you see how a box with a 4 pixel `rgb(46, 0, 78)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(46, 0, 78); -webkit-box-shadow:4px  
4px 4px 4px rgb(46, 0, 78); box-shadow:4px  
4px 4px 4px rgb(46, 0, 78) }
```

# Background

The CSS property to change the background color of an element to CIELCh 10, 51.505, 315.133 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(46, 0, 78) }
```

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

```
.background{ background-color: rgb(46, 0,  
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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