

# Converting Colors

CIELCh(19, 27.983, 335.585)

Have a look what the booklet for  
CIELCh(19, 27.983, 335.585)  
contains.

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**Color**

**CIELCh(19, 28.160, 336.218)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	4A1E3F
RGB	74, 30, 63
RGB Percent	29%, 12%, 25%
CMY	0.7097, 0.8822, 0.7528
CMYK	0.00, 0.59, 0.15, 0.71
HSL	315°, 42%, 20%
HSV	315°, 59%, 29%
XYZ	4.1901, 2.7468, 5.0169
YIQ	46.9180, 15.6310, 19.5910

# Conversions

## Conversions Part 2

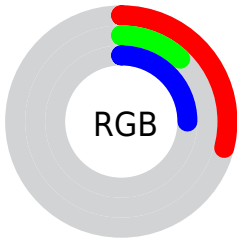
<b>Format</b>	<b>Color</b>
<b>R<sub>YB</sub></b>	74, 30, 63
Decimal	4857407
CIE <sub>Lab</sub>	19.00, 25.77, -11.36
CIE <sub>LCh</sub>	19, 28.160, 336.218
Yxy	2.7468, 0.3505, 0.2298
Android (android.graphics.Color)	4283047487 (0xFF4A1E3F)
YUV	46.9180, 7.9284, 23.7509
Hunter-Lab	16.5735, 16.1249, -6.3460

# Details

The CIELCh color **19, 28.160, 336.218** is a dark color, and the websafe version is hex **330033**. A complement of this color would be **28, 28.179, 147.310**, and the grayscale version is **19, 0.004, 296.813**.

A 20% lighter version of the original color is **39, 28.438, 335.778**, and **3, 16.103, 341.185** is the 20% darker color. If you saturate the color by 10%, you get **17, 31.953, 337.010**, and if you desaturate by 10%, it is **21, 23.855, 335.480**.

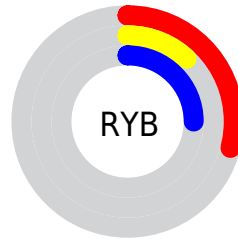
# Distribution



Red (29%)

Green (12%)

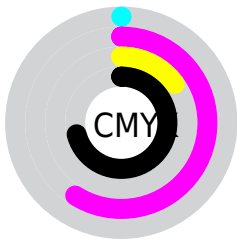
Blue (25%)



Red (29%)

Yellow (12%)

Blue (25%)

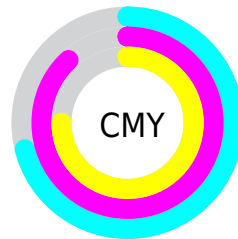


Cyan (0%)

Magenta (59%)

Yellow (15%)

Black (71%)



Cyan (71%)

Magenta (88%)


Yellow (75%)


# Brightness & Saturation Gradients


These gradients show how the CIELCh color 19, 28.160, 336.218 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 19, 28.160, 336.218 by changing the saturation by 10% instead.




 19, 28.160,  
336.218

 19, 28.160,  
336.218

 100, 28.160,  
336.218


 9, 28.160, 336.218

 39, 28.160,  
336.218

 0, 28.160, 336.218

 49, 28.160,  
336.218

 59, 28.160,  
336.218

 69, 28.160,  
336.218


 79, 28.160,  
336.218


 89, 28.160,


336.218


 99, 28.160,  
336.218


 19, 28.160,  
336.218


 19, 28.160,  
336.218


 17, 31.953,  
337.010

 21, 23.855,  
335.480

 16, 35.051,  
337.876

 23, 19.216,  
334.782

 15, 37.341,  
338.834

 25, 14.387,  
334.116

 14, 39.595,  
339.746

 27, 9.480, 333.478

 14, 39.731,  
339.794

 29, 4.577, 332.855

 32, 0.270, 152.901

■ 34, 5.023, 151.791

■ 36, 9.664, 151.250

■ 39, 14.182,  
150.744

# Harmonies

# Complementary

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



19, 28.160, 336.218



28, 28.179, 147.310

# Rectangle

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



19, 28.160, 336.218



19, 28.160, 26.218



19, 28.160, 156.218



19, 28.160, 206.218

# Sweetspot

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



19, 28.159, 336.218



36, 10.973, 333.432



15, 31.149, 304.511



17, 7.526, 333.532



72, 0.009, 296.813



20, 0.004, 296.813





# Same Dimension

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



19, 28.159, 336.218



23, 40.166, 337.376



18, 22.392, 7.155



14, 2.781, 332.809



21, 49.173, 340.464



52, 87.925, 341.598



# Inverse Universe

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



19, 28.159, 336.218



23, 40.166, 337.376



28, 18.446, 173.833



14, 2.781, 332.809



21, 49.173, 340.464

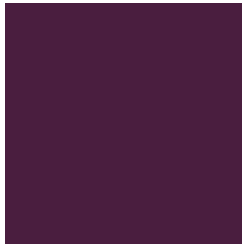


52, 87.925, 341.598



# Previews

## White Background



This preview shows how the CIE LCh color 19, 28.160, 336.218 looks on a white background.

## Color Contrast Check

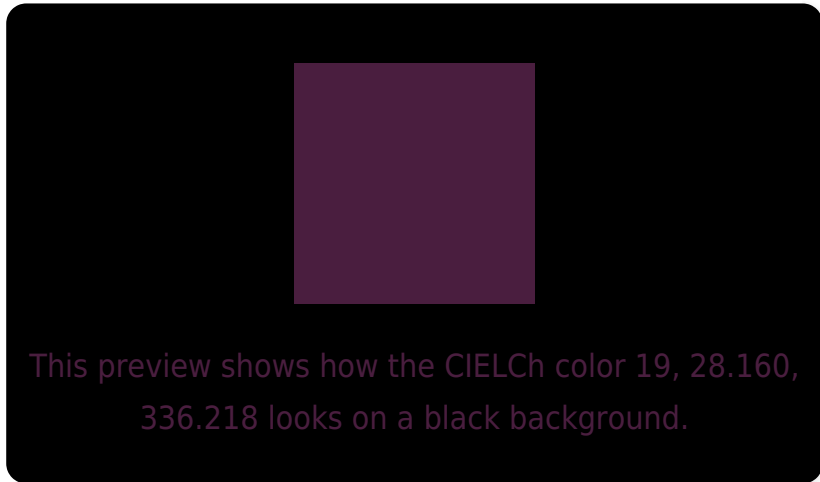
Large Text (above 18pt) WCAG AA ✓ Pass

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

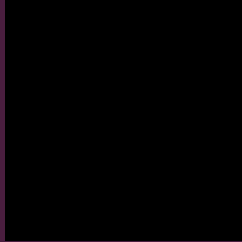
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 19, 28.160, 336.218

## Background



This preview shows how black text looks on a background with the CIELCh color 19, 28.160, 336.218.



This preview shows how white text looks on a background with the CIELCh color 19, 28.160, 336.218.

# 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

19, 28.160, 336.218

### Protanopia

19, 20.616, 285.272

### Deuteranopia

19, 9.583, 289.949





**Tritanopia**  
19, 18.304, 17.930

# Trichromacy



**Original Color**  
19, 28.160, 336.218

**Protanomaly**  
19, 21.737, 305.311

**Deuteranomaly**  
19, 16.011, 318.954

**Tritanomaly**  
19, 20.419, 357.993

# Monochromacy



**Original Color**  
19, 28.160, 336.218

**Achromatopsia**  
19, 0.004, 296.813

**Achromatomaly**  
19, 11.028, 333.943

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 19, 28.160, 336.218 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(74, 30, 63)` looks like.

```
.text, #text, p{  
    color:rgb(74, 30, 63)  
}
```

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(74, 30, 63) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(74, 30, 63) }
```

## Border

The CSS property to change the border of an element to CIELCh 19, 28.160, 336.218 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(74, 30, 63) }
```

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

```
.border{ border-color:rgb(74, 30, 63) }
```

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

Here you see how a box with a 4 pixel `rgb(74, 30, 63)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(74, 30, 63); -webkit-box-  
shadow:4px 4px 4px 4px rgb(74, 30, 63);  
box-shadow:4px 4px 4px 4px rgb(74, 30, 63)  
}
```

# Background

The CSS property to change the background color of an element to CIELCh 19, 28.160, 336.218 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(74, 30, 63) }
```

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

```
.background{ background-color: rgb(74, 30,  
63) }
```

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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