

# Converting Colors

CIELCh(16, 27.221, 10.846)

Have a look what the booklet for  
CIELCh(16, 27.221, 10.846) contains.

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# Color

**CIELCh(16, 27.213, 9.713)**

# Conversions

## Conversions Part 1

Format	Color
Hex	4A1422
RGB	74, 20, 34
RGB Percent	29%, 8%, 13%
CMY	0.7084, 0.9202, 0.8655
CMYK	0.00, 0.73, 0.54, 0.71
HSL	345°, 57%, 19%
HSV	345°, 73%, 29%
XYZ	3.4004, 2.0993, 1.7613
YIQ	37.7420, 27.6900, 15.8020

# Conversions

## Conversions Part 2

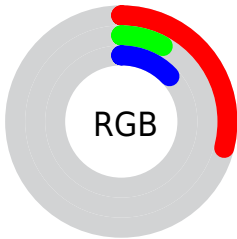
Format	Color
<b>RYB</b>	74, 20, 34
Decimal	4854818
CIELab	16.00, 26.82, 4.59
CIELCh	16, 27.213, 9.713
Yxy	2.0993, 0.4683, 0.2891
Android (android.graphics.Color)	4283044898 (0xFF4A1422)
YUV	37.7420, -1.8448, 31.7983
Hunter-Lab	14.4890, 16.5368, 2.9348

# Details

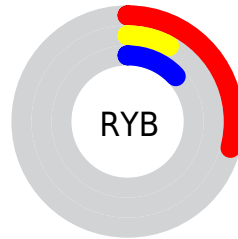
The CIELCh color **16, 27.213, 9.713** is a dark color, and the websafe version is hex **330000**. A complement of this color would be **28, 21.726, 171.495**, and the grayscale version is **15, 0.003, 296.813**.

A 20% lighter version of the original color is **36, 27.094, 10.166**, and **1, 6.390, 19.405** is the 20% darker color. If you saturate the color by 10%, you get **15, 30.354, 12.789**, and if you desaturate by 10%, it is **18, 23.686, 7.230**.

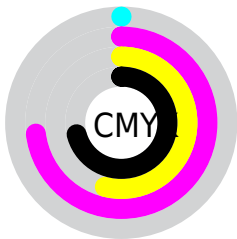
# Distribution



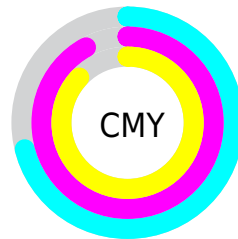
- Red (29%)
- Green (8%)
- Blue (13%)



- Red (29%)
- Yellow (8%)
- Blue (13%)



- Cyan (0%)
- Magenta (73%)
- Yellow (54%)
- Black (71%)




- Cyan (71%)
- Magenta (92%)
- Yellow (87%)

# Brightness & Saturation Gradients

These gradients show how the CIELCh color 16, 27.213, 9.713 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, 27.213, 9.713 by changing the saturation by 10% instead.



 16, 27.213, 9.713       16, 27.213, 9.713

 100, 27.213, 9.713       6, 27.213, 9.713

 36, 27.213, 9.713       0, 27.213, 9.713

 46, 27.213, 9.713

 56, 27.213, 9.713

 66, 27.213, 9.713

 76, 27.213, 9.713

 86, 27.213, 9.713

 96, 27.213, 9.713

 16, 27.213, 9.713       16, 27.213, 9.713

15, 30.354, 12.789

18, 23.686, 7.230

14, 33.202, 16.285

20, 19.908, 5.212

13, 35.467, 18.130

22, 16.010, 3.554

24, 12.100, 2.169

26, 8.254, 0.990

29, 4.521, 359.959

31, 0.929, 358.872

33, 2.512, 178.452

36, 5.799, 177.702

# Harmonies

# Complementary

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



16, 27.213, 9.713



28, 21.726, 171.495

# Rectangle

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



16, 27.213, 9.713



16, 27.213, 59.713



16, 27.213, 189.713



16, 27.213, 239.713

# Sweetspot

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



16, 27.211, 9.715



34, 9.988, 1.012



15, 38.453, 319.227



16, 6.633, 1.136



72, 0.009, 296.813



20, 0.004, 296.813



# Same Dimension

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



16, 27.211, 9.715



20, 38.918, 15.620



18, 25.430, 43.430



14, 2.026, 359.573



20, 44.778, 21.251



48, 83.275, 25.644





# Inverse Universe

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



16, 27.211, 9.715



20, 38.918, 15.620



24, 15.336, 230.981



14, 2.026, 359.573



20, 44.778, 21.251

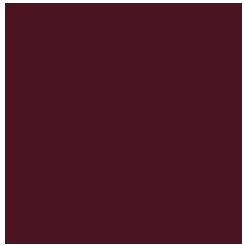


48, 83.275, 25.644



# Previews

## White Background



This preview shows how the CIE LCh color 16, 27.213, 9.713 looks on a white background.

## Color Contrast Check

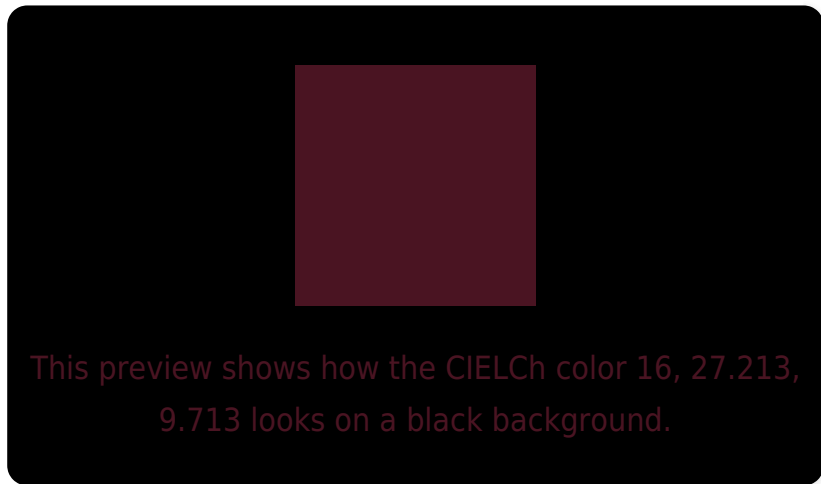
Large Text (above 18pt) WCAG AA ✓ Pass

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, 27.213, 9.713**

## **Background**



This preview shows how black text looks on a background with the CIELCh color 16, 27.213, 9.713.



This preview shows how white text looks on a background with the CIELCh color 16, 27.213, 9.713.

# 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, 27.213, 9.713

### Protanopia

17, 2.791, 290.916

### Deuteranopia

17, 7.327, 68.736



**Tritanopia**  
16, 27.230, 26.645



# Trichromacy



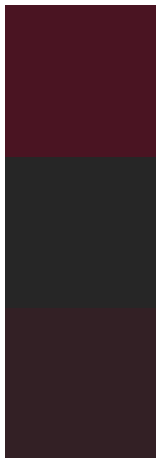
**Original Color**  
16, 27.213, 9.713

**Protanomaly**  
16, 11.201, 352.749

**Deuteranomaly**  
16, 13.087, 22.850

**Tritanomaly**  
16, 26.845, 20.084

# Monochromacy



**Original Color**  
16, 27.213, 9.713

**Achromatopsia**  
15, 0.003, 296.813

**Achromatomaly**  
15, 10.115, 2.084

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 16, 27.213, 9.713 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, 20, 34)` looks like.

```
.text, #text, p{  
    color:rgb(74, 20, 34)  
}
```

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, 20, 34) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(74, 20, 34) }
```

## Border

The CSS property to change the border of an element to CIELCh 16, 27.213, 9.713 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, 20, 34) }
```

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

```
.border{ border-color:rgb(74, 20, 34) }
```

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

Here you see how a box with a 4 pixel rgb(74, 20, 34) colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(74, 20, 34); -webkit-box-  
shadow:4px 4px 4px 4px rgb(74, 20, 34);  
box-shadow:4px 4px 4px 4px rgb(74, 20, 34)  
}
```

# Background

The CSS property to change the background color of an element to CIELCh 16, 27.213, 9.713 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(74, 20, 34) }
```

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

```
.background{ background-color: rgb(74, 20,  
34) }
```

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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