

# Converting Colors

CIELCh(18, 27.144, 342.438)

Have a look what the booklet for  
CIELCh(18, 27.144, 342.438)  
contains.

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**Color**

**CIELCh(18, 27.117, 342.362)**

# Conversions

## Conversions Part 1

<b>Format</b>	<b>Color</b>
Hex	491B38
RGB	73, 27, 56
RGB Percent	29%, 11%, 22%
CMY	0.7123, 0.8928, 0.7791
CMYK	0.00, 0.63, 0.23, 0.71
HSL	322°, 46%, 20%
HSV	322°, 63%, 29%
XYZ	3.8958, 2.5180, 4.0637
YIQ	44.0600, 18.1070, 18.7710

# Conversions

## Conversions Part 2

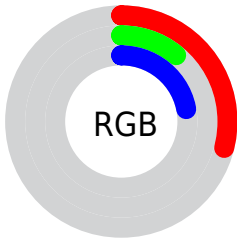
Format	Color
<a href="#">RYB</a>	<a href="#">73, 27, 56</a>
Decimal	<a href="#">4791096</a>
CIELab	<a href="#">18.00, 25.84, -8.22</a>
CIELCh	<a href="#">18, 27.117, 342.362</a>
Yxy	<a href="#">2.5180, 0.3718, 0.2403</a>
Android (android.graphics.Color)	<a href="#">4282981176 (0xFF491B38)</a>
YUV	<a href="#">44.0600, 5.8864, 25.3804</a>
Hunter-Lab	<a href="#">15.8683, 16.0533, -4.0758</a>

# Details

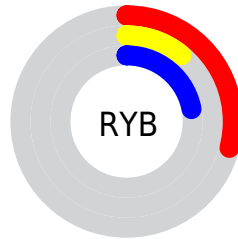
The CIELCh color **18, 27.117, 342.362** is a dark color, and the websafe version is hex **330033**. A complement of this color would be **27, 26.694, 151.469**, and the grayscale version is **18, 0.003, 296.813**.

A 20% lighter version of the original color is **38, 27.210, 341.983**, and **2, 11.738, 354.816** is the 20% darker color. If you saturate the color by 10%, you get **16, 30.462, 343.541**, and if you desaturate by 10%, it is **20, 23.250, 341.331**.

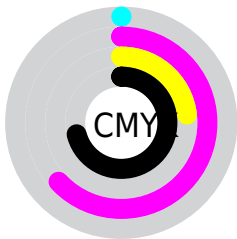
# Distribution



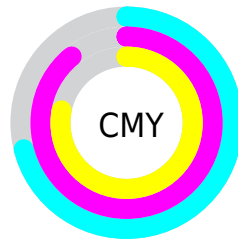
- Red (29%)
- Green (11%)
- Blue (22%)



- Red (29%)
- Yellow (11%)
- Blue (22%)



- Cyan (0%)
- Magenta (63%)
- Yellow (23%)
- Black (71%)




- Cyan (71%)
- Magenta (89%)
- Yellow (78%)

# Brightness & Saturation Gradients


These gradients show how the CIELCh color 18, 27.117, 342.362 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 18, 27.117, 342.362 by changing the saturation by 10% instead.





 18, 27.117,  
342.362

 18, 27.117,  
342.362


 100, 27.117,  
342.362


 8, 27.117, 342.362


 38, 27.117,  
342.362

 0, 27.117, 342.362

 48, 27.117,  
342.362


 58, 27.117,  
342.362


 68, 27.117,  
342.362

 78, 27.117,  
342.362


 88, 27.117,


342.362


 98, 27.117,  
342.362


 18, 27.117,  
342.362


 18, 27.117,  
342.362


 16, 30.462,  
343.541


 20, 23.250,  
341.331


 15, 33.109,  
344.919

 22, 19.039,  
340.410

 14, 35.151,  
346.463

 24, 14.630,  
339.572

 13, 36.769,  
347.485

 26, 10.139,  
338.799

 28, 5.646, 338.073

■ 31, 1.206, 337.293

■ 33, 3.145, 156.873

■ 35, 7.389, 156.256

■ 38, 11.515,  
155.697

# Harmonies

# Complementary

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



18, 27.117, 342.362



27, 26.694, 151.469

# Rectangle

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



18, 27.117, 342.362



18, 27.117, 32.362



18, 27.117, 162.362



18, 27.117, 212.362

# Sweetspot

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



18, 27.116, 342.363



35, 10.421, 338.574



15, 32.777, 308.032



16, 7.238, 338.688



72, 0.009, 296.813



20, 0.004, 296.813





# Same Dimension

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



18, 27.116, 342.363



22, 37.890, 344.207



17, 23.587, 16.787



13, 2.406, 337.774



20, 44.942, 348.648



50, 80.974, 350.774



# Inverse Universe

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



18, 27.116, 342.363



22, 37.890, 344.207



28, 17.430, 183.466



13, 2.406, 337.774



20, 44.942, 348.648

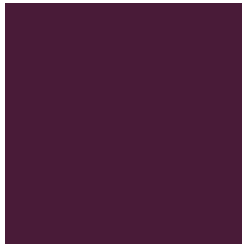


50, 80.974, 350.774



# Previews

## White Background



This preview shows how the CIE LCh color 18, 27.117, 342.362 looks on a white background.

## Color Contrast Check

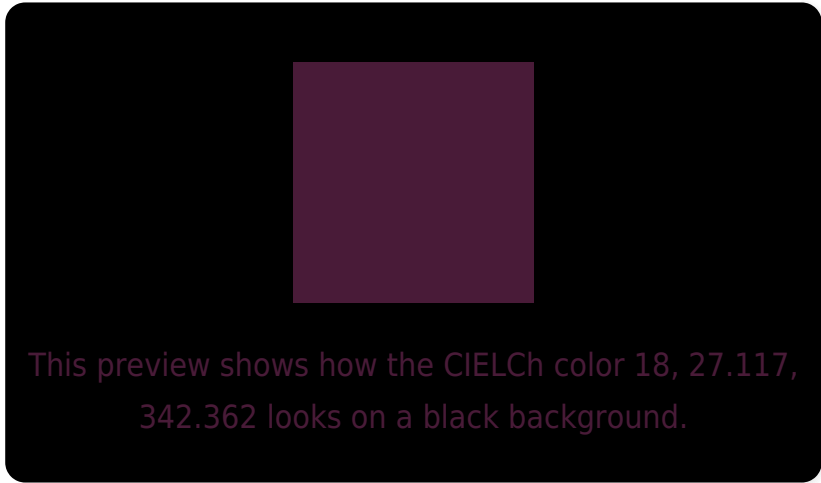
Large Text (above 18pt) WCAG AA ✓ Pass

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

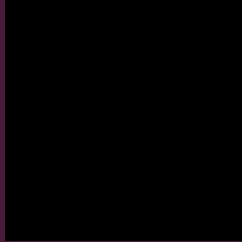
Large Text (above 18pt) WCAG AAA × Fail

Any Text WCAG AAA × Fail

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

# CIELCh 18, 27.117, 342.362

## Background



This preview shows how black text looks on a background with the CIELCh color 18, 27.117, 342.362.



This preview shows how white text looks on a background with the CIELCh color 18, 27.117, 342.362.

# 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

18, 27.117, 342.362

### Protanopia

18, 17.331, 284.592

### Deuteranopia

18, 6.917, 295.525





**Tritanopia**  
18, 19.622, 20.831

# Trichromacy



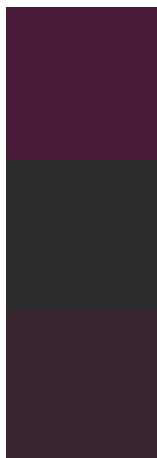
**Original Color**  
18, 27.117, 342.362

**Protanomaly**  
18, 18.731, 309.575

**Deuteranomaly**  
18, 13.991, 325.865

**Tritanomaly**  
18, 21.106, 3.398

# Monochromacy



**Original Color**  
18, 27.117, 342.362

**Achromatopsia**  
18, 0.003, 296.813

**Achromatomaly**  
18, 10.555, 341.333

# CSS Examples

## Text

The CSS property to change the color of the text to CIELCh 18, 27.117, 342.362 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(73, 27, 56)` looks like.

```
.text, #text, p{  
    color:rgb(73, 27, 56)  
}
```

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(73, 27, 56) colored shadow looks like.

```
.shadow{ text-shadow: 4px 4px 2px rgb(73, 27, 56) }
```

## Border

The CSS property to change the border of an element to CIELCh 18, 27.117, 342.362 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(73, 27, 56) }
```

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

```
.border{ border-color:rgb(73, 27, 56) }
```

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

Here you see how a box with a 4 pixel `rgb(73, 27, 56)` colored shadow looks like.

```
.boxshadow{ -moz-box-shadow:4px 4px 4px  
4px rgb(73, 27, 56); -webkit-box-  
shadow:4px 4px 4px 4px rgb(73, 27, 56);  
box-shadow:4px 4px 4px 4px rgb(73, 27, 56)  
}
```

# Background

The CSS property to change the background color of an element to CIELCh 18, 27.117, 342.362 is called "background". The background property can be set on classes, ids or directly on the HTML element.

```
.background, #background, body{  
background: rgb(73, 27, 56) }
```

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

```
.background{ background-color: rgb(73, 27,  
56) }
```

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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